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uc wsapi

To configure the nonsecure Cisco Unified Communication IOS services environment for a specific application, use the **uc wsapi** command. To remove the configuration, use **no** form of this command.

uc wsapi
no uc wsapi

Syntax Description

This command has no arguments or keywords.

Command Default

This command has no default behavior or values.

Command Modes

EXEC mode

Command History

Release	Modification
Cisco IOS XE 26.2.1	This command was modified to display warning message for insecure protocol usage.
Cisco IOS XE Cupertino 17.7.1a	Introduced support for YANG models.
Cisco IOS XE Everest 16.6.1	This command extended support for configuring Cisco Unified Communication IOS services environment using HTTPS connection.
15.2(2)T	This command was introduced.

Usage Guidelines

Use the **uc wsapi** command to enter the Cisco Unified Communication IOS services configuration environment in nonsecure mode.

Note If you intend to move from secure mode to nonsecure mode, remove the existing **uc secure-wsapi** configuration and reconfigure in nonsecure mode.

Warning Starting with Cisco IOS XE 26.2.1, a warning message is displayed when insecure protocols such as HTTP, FTP, or TFTP are used, as they do not provide encryption or authentication. Use secure alternatives such as HTTPS, SFTP, or SCP instead.

Examples

The following example shows the warning message being displayed for the usage of insecure HTTP protocol:

```
Device(config)#uc wsapi
SECURITY WARNING - Module: WEB_SERVICE, Command: uc wsapi ,
Reason: Legacy protocol poses data confidentiality and integrity risks due to lack of
encryption and authentication,
Description: UC web service API enabled without secure option - enables HTTP protocol without
 HTTPS, exposing data to interception and tampering,
```

```
Remediation: Use secure protocols such as HTTPS, SFTP, or SCP instead of insecure HTTP,
FTP, or TFTP
Device(config-uc-wsapi)#
```

Examples

The following example enters the Cisco Unified Communication IOS services configuration:

```
Router(config)# uc wsapi
Router(config-uc-wsapi)#
```

Related Commands

Command	Description
provider	Enables a provider service.

uc secure-wsapi

To configure secure Cisco Unified Communication IOS services environment for a specific application, use the **uc secure-wsapi** command. To remove the configuration, use **no** form of this command.

uc secure-wsapi
no uc secure-wsapi

Syntax Description

This command has no arguments or keywords.

Command Default

This command has no default behavior or values.

Command Modes

EXEC mode

Command History

Release	Modification
Cisco IOS XE Everest 16.6.1	This command was introduced.
Cisco IOS XE Cupertino 17.7.1	Introduced support for YANG models.

Usage Guidelines

Use **uc secure-wsapi** command to enter the Cisco Unified Communication IOS services configuration environment in secure mode.

Note If you intend to move from nonsecure mode to secure mode, remove the existing **uc wsapi** configuration and reconfigure in secure mode.

The following example enters the Cisco Unified Communication IOS services configuration in secure mode:

```
Router(config)# uc secure-wsapi
Router(config-uc-wsapi)#
```

Related Commands

Command	Description
provider	Enables a provider service.

unbundle vfc

To unbundle DSPWare from the VCWare and configure the default file and capability lists with default values, use the **unbundle vfc** command in privileged EXEC mode.

unbundle [**high-complexity** | **medium-complexity**] **vfc** *slot-number*

Syntax Description

high -complexity	(Optional) High-complexity firmware set.
medium -complexity	(Optional) Medium-complexity firmware set.
slot -number	Voice feature card (VFC) slot number.

Command Default

No default behavior or values

Command Modes

Privileged EXEC

Command History

Release	Modification
11.3(2)NA	This command was introduced on the Cisco AS5300.
12.0(2)XH	The **high-complexity** and **medium-complexity** keywords were added.
12.0(3)T	This command was integrated into Cisco IOS Release 12.0(3)T.

Usage Guidelines

VFCs come with a single bundled image, VCWare, stored in VFC Flash memory. Use this command to unbundle this bundled image into separate files, which are then written to Flash memory. When VCWare is unbundled, it automatically adds DSPWare to Flash memory, creates both the capability and default file lists, and populates these lists with the default files for that version of VCWare. The default file list includes the files to be used to boot up the system. The capability list defines the available voice codecs for H.323 capability negotiation. These files are used during initial card configuration and for subsequent firmware upgrades.

Before unbundling a VFC software image that you have just copied over to VFC Flash, use the **clear vfc**command. Unbundling a DSP firmware set rewrites the default-file and capabilities lists. After unbundling, you must reload the router for any changes to take effect.

Examples

The following example unbundles the high-complexity firmware set into slot 2:

```
Router# unbundle high-complexity vfc 2
```

Related Commands

Command	Description
clear vfc	Resets the VFC.
copy flash vfc	Copies a new version of VCWare from the Cisco AS5300 motherboard to VFC Flash memory.
copy tftp vfc	Copies a new version of VCWare from a TFTP server to VFC Flash memory.

update-callerid

To enable sending updates for callerid, use the **udpate-callerid** command in the Session Initiation Protocol (SIP) configuration mode. To disable this configuration, use the **no** form of this command.

udpate-callerid
no udpate-callerid

Syntax Description

This command has no keywords or arguments.

Command Default

Enabled by default.

Command Modes

Session Initiation Protocol (SIP) configuration mode (conf-voi-serv).

Voice class tenant configuration mode.

Command History

Release	Modification
15.4(1)T Cisco IOS XE 3.11S	This command was introduced.
Cisco IOS XE Cupertino 17.7.1a	Introduced support for YANG models.

Usage Guidelines

By default, update-callerid configuration is enabled at global level and CUBE sends an UPDATE message during call transfer handling on CUBE. If you do not need to send callerid UPDATE, disable this configuration at global level. If specific trunks require callerid UPDATE to be sent, it can be enabled at tenant level.

Examples

The following example shows how to enable udpate-callerid using the **udpate-callerid** command:

```
Device> enable
Device# configure terminal
Device(config)# voice service voip
Device(conf-voi-serv)# sip
Device(conf-serv-sip)# udpate-callerid
Device(conf-serv-sip)# end
```

Related Commands

Command	Description

url

To configure the Internet service provider (ISP) address, use the **url** command in settlement configuration mode. To disable the address, use the **no** form of this command.

url *url-address*
no url *url-address*

Syntax Description

url-address	URL address. A valid URL address is as follows: http://*fully qualified domain name* e[:*port*]/[*URL*]

Command Default

No default behavior or values

Command Modes

Settlement configuration

Command History

Release	Modification
12.2(11)T	The settlement configuration for this command was modified. The settlement provider must be shut down before the **url** command is entered.
12.1(1)T	This command was integrated into Cisco IOS Release 12.1(1)T.
12.0(4)XH1	This command was introduced on Cisco 2600 series and Cisco 3600 series, and Cisco AS5300.

Usage Guidelines

You can configure the address type multiple times. If you configure multiple URLs for the settlement server, the gateway attempts to send the request to each URL in the order in which you configured these addresses.

If the first URL is unsuccessful, the gateway tries the next URL. If the first URL becomes available, the gateway does not switch back until it loops through the list of URLs, for example:

url http://example1.com

url http://example2.com

url http://example3.com

If http://example1.com fails, the gateway sends the request to http://example2.com. If http://example1.com comes back online, the gateway continues to send requests to http://example2.com. Later on, if http://example2 is down, the gateway sends requests to http://example3.com.

When http://servicepoint3.com is down the gateway routes its requests back to http://example1.com.

Examples

The following example shows four URLs configured for the settlement server:

```
settlement 0
 url http://1.2.3.4/
 url http://1.2.3.4:80/
 url https://1.2.3.4:4444/
 url https://example.com:443/
```

Related Commands

Command	Description
connection-timeout	Sets the connection timeout.
customer-id	Sets the customer identification.
device-id	Sets the device identification.
encryption	Specifies the encryption method.
max-connection	Sets the maximum simultaneous connections.
response-timeout	Sets the response timeout.
retry-delay	Sets the retry delay.
retry-limit	Sets the connection retry limit.
session-timeout	Sets the session timeout.
settlement	Enters settlement configuration mode.
show settlement	Displays the configuration for all settlement server transactions.
shutdown	Brings up the settlement provider.
no shutdown	Shuts down the settlement provider.
type	Specifies the provider type.

url (dial peer)

To specify the URL of a text file that has E.164 patterns configured on a destination E.164 pattern map, use the **url** command in dial-peer configuration mode. To remove the URL of the text file, use the **no** form of this command.

url *url*
no url *url*

Syntax Description

url	The URL of an internally or an externally stored text file that has been used on an E.164 pattern map.

Command Default

The URL is not specified for a text file that is configured on an E.164 pattern map.

Command Modes

Dial peer configuration (config-dial-peer)

Command History

Release	Modification
15.2(4)M	This command was introduced.

Examples

The following example shows how to specify the URL of a text file configured on an E.164 pattern map:

```
Device(config)# dial-peer voice 123 voip system
Device(config-dial-peer)# url http://http-host/config-files/destination-pattern-map.cfg
```

Related Commands

Command	Description
destination e164-pattern-map	Links an E.164 pattern map to a dial peer.
e164	Configures an E.164 pattern entry on a destination E.164 pattern map.
show voice class e164-pattern-map	Displays details of the configuration of a voice class E.164 pattern map.
voice class e164-pattern-map load	Loads a destination E.164 pattern map specified by a text file.

url (SIP)

To configure URLs to either the Session Initiation Protocol (SIP), SIP secure (SIPS), or telephone (TEL) format for your VoIP SIP calls, use the **url** command in SIP configuration mode voice class tenant configuration mode. To reset to the default, use the **no** form of this command.

url { **sip** | **sips** | **system | tel** [**phone-context**] }
no url

Syntax Description

sip	Generates URLs in SIP format for VoIP calls.
sips	Generates URLs in SIPS format for VoIP calls.
system	Specifies that the URLs use the global sip-ua value. This keyword is available only for the tenant mode to allow it to fallback to the global configurations.
tel	Generates URLs in TEL format for VoIP calls.
phone-context	(Optional) Appends the phone-context parameter to the TEL URL.

Command Default

SIP URLs

Command Modes

SIP configuration (conf-serv-sip)

Voice class tenant configuration (config-class)

Command History

Release	Modification
Cisco IOS XE Cupertino 17.7.1a	Introduced support for YANG models.
15.6(2)T and IOS XE Denali 16.3.1	This command was modified to include the keyword: **system**. This command is now available under voice class tenants.
12.4(24)T	This command was integrated into Cisco IOS Release 12.4(24)T.
12.4(22)YB	The **phone-context** keyword was added.
12.4(6)T	The **sips** keyword was added.
12.2(11)T	This command was implemented on the Cisco AS5300, Cisco AS5350, and Cisco AS5400 platforms.
12.2(8)T	This command was integrated into Cisco IOS Release 12.2(8)T. Support for the Cisco AS5300, Cisco AS5350, Cisco AS5400, and Cisco AS5850 was not included in this release.
12.2(2)XB1	This command was implemented on the Cisco AS5850.
12.2(2)XB	This command was introduced.

Usage Guidelines

This command affects only user-agent clients (UACs), because it causes the use of a SIP, SIPS, or TEL URL in the request line of outgoing SIP INVITE requests. SIP URLs indicate the originator, recipient, and destination of the SIP request; TEL URLs indicate voice call connections.

The **voice-class sip url** command takes precedence over the **url** command configured in SIP global configuration mode. However, if the **voice-class sip url** command is configured with the **system** keyword, the gateway uses what was globally configured with the **url** command.

Enter SIP configuration mode after entering voice-service VoIP configuration mode, as shown in the "Examples" section.

The following example generates URLs in SIP format:

```
voice service voip
sip
 url sip
```

The following example generates URLs in SIPS format:

```
voice service voip
sip
 url sips
```

The following example generates URLs in the voice class tenant configuration mode:

```
Router(config-class)# url system
```

The following example generates URLs in TEL format:

```
voice service voip
sip
 url tel
```

The following example generates URLs in TEL format and appends the phone-context parameter:

```
voice service voip
sip
 url tel phone-context
```

Related Commands

Command	Description
sip	Enters SIP configuration mode from voice-service VoIP configuration mode.
voice -class sip url	Generates URLs in the SIP, SIPS, or TEL format.

url (voice class)

To set the URL of the file for the e164 pattern map or the e164 translation setup, use the **url** command in voice class configuration mode. To negate the configuration, use the **no** form of this command.

url *url*
no url *url*

Syntax Description

url	Specifies the URL of the file.

Command Default

None

Command Modes

Voice class configuration (voice class)

Command History

Release	Modification
Cisco IOS XE 26.2.1	This command was modified to display warning message for insecure protocol usage.
Cisco IOS 15.2(4)M	This command was introduced.
Cisco IOS XE 3.7S	

Usage Guidelines

Warning Starting with Cisco IOS XE 26.2.1, a warning message is displayed when insecure protocols such as HTTP, FTP, or TFTP are used, as they do not provide encryption or authentication. Use secure alternatives such as HTTPS, SFTP, or SCP instead.

Examples

The following example shows the warning message displayed for the usage of insecure HTTP protocol:

```
Device(config)#voice class e164-pattern-map 1
Device(config-class)#url http://10.10.10.70//tftpboot/COLT-DE-CUCM.cfg
SECURITY WARNING - Module: VOICE, Command: url http://10.10.10.70//tftpboot/COLT-DE-CUCM.cfg,

Reason: Legacy protocol poses data confidentiality and integrity risks due to lack of
encryption and authentication,
Description: voice class e164-pattern-map/e164-translation configured with FTP/HTTP/TFTP
URL protocol,
Remediation: Use secure protocols such as HTTPS, SFTP, or SCP instead of insecure HTTP,
FTP, or TFTP

Device(config-class)#
```

The following example shows the warning message displayed for the usage of insecure HTTP protocol:

```
Device(config)#voice class e164-translation 2
Device(config-class)#url http://10.10.10.70//tftpboot/COLT-DE-CUCM.cfg
SECURITY WARNING - Module: VOICE, Command: url http://10.10.10.70//tftpboot/COLT-DE-CUCM.cfg,

Reason: Legacy protocol poses data confidentiality and integrity risks due to lack of
encryption and authentication,
Description: voice class e164-pattern-map/e164-translation configured with FTP/HTTP/TFTP
URL protocol,
Remediation: Use secure protocols such as HTTPS, SFTP, or SCP instead of insecure HTTP,
FTP, or TFTP
Device(config-class)#
```

usage-indication

To enter the Annex G neighbor usage mode used to configure optional usage indicators, use the **usage indication** command in Annex G neighbor configuration mode. To return to the default setting, use the **no** form of this command.

usage-indication
no usage-indication

Syntax Description

This command has no arguments or keywords.

Command Default

Disabled

Command Modes

Annex G neighbor

Command History

Release	Modification
12.2(11)T	This command was introduced.

Usage Guidelines

Use the **usage-indication**command to enter the mode to set usage indication characteristics. Repeat this command for each border element neighbor that you configure.

Note The no shutdown command must be used to enable each service relationship.

Examples

The following example shows how to enter the Annex G neighbor usage mode:

```
doc-rtr3(config-nxg-neigh-usg)#
usage-indication
```

Related Commands

Command	Description
access-policy	Requires that a neighbor be explicitly configured.
inbound ttl	Sets the inbound time-to-live value.
outbound retry-interval	Defines the retry period for attempting to establish the outbound relationship between border elements.
retry interval	Defines the time between delivery attempts.
retry window	Defines for how long a border element will attempt delivery.
shutdown	Enables or disables the border element.

use-proxy

To enable proxy communications for calls between local and remote zones or the H.225 Annex G border element, use the **use-proxy** command in gatekeeper configuration mode. To remove either a proxy configuration entry for a remote zone or the H.225 Annex G border element, to disable proxy communications between local and remote zones or H.225 Annex G border element, use the **no** form of this command.

use-proxy *local-zone-name* {**default** | **h323-annexg** | **remote-zone** *remote-zone-name*} {**inbound-to** | **outbound-from**} {**gateway** | **terminal**}
no use-proxy *local-zone-name* {**default** | **h323-annexg** | **remote-zone** *remote-zone-name*} [{**inbound-to** | **outbound-from**} {**gateway** | **terminal**}]

Syntax Description

local -zone-name	Name or zone name of the gatekeeper, which is usually the fully domain-qualified host name of the gatekeeper.
default	Default proxy policy for all calls that are not defined by a **use-proxy** command with the **remote-zone** keyword or **h323-annexg**keyword.
h323-annexg	Proxy policy for calls to or from the H.225 Annex G border element co-located with the gatekeeper.
remote -zone *remote-zone-name*	Proxy policy for calls to or from a specific remote gatekeeper or zone.
inbound -to	Proxy policy as it applies to calls that are inbound to the local zone from a remote zone. Each **use-proxy** command defines the policy for only one direction.
outbound -from	Proxy policy as it applies to calls that are outbound from the local zone to a remote zone. Each **use-proxy** command defines the policy for only one direction.
gateway	Type of local device to which the policy applies. The **gateway** option applies the policy only to local gateways.
terminal	Type of local device to which the policy applies. The **terminal** option applies the policy only to local terminals.

Command Default

The local zone uses proxy for both inbound and outbound calls to and from the local H.323 terminals only. Proxy is not used for both inbound and outbound calls to and from local gateways. For releases prior to Cisco IOS Release 12.3(7)T, both inbound and outbound calls using the H.225 Annex G border element do not use the proxy.

Command Modes

Gatekeeper configuration

Command History

Release	Modification
12.0(5)T	This command was introduced on the Cisco AS5300.

Release	Modification
12.1(5)XM2	The command was implemented on the Cisco AS5350 and Cisco AS5400.
12.2(4)T	This command was integrated into Cisco IOS Release 12.2(4)T. Support for the Cisco AS5300, Cisco AS5350, and Cisco AS5400 is not included in this release.
12.2(2)XB1	This command was implemented on the Cisco AS5850.
12.2(11)T	This command was integrated into Cisco IOS Release 12.2(11)T.
12.3(7)T	The **h323-annexg** keyword was added.

Usage Guidelines

This command replaces the **zone access** command used in previous versions of the gatekeeper. When a previous version of a gatekeeper is upgraded, any **zone access** commands are translated to **use-proxy**commands. You can use the **show gatekeeper zone status** command to see the gatekeeper proxy configuration.

If the domain name is cisco.com, the gatekeeper name might be gk1.cisco.com. However, if the gatekeeper is controlling multiple zones, the name of the gatekeeper for each zone should be a unique string.

Examples

In the following example, the local zone sj.xyz.com is configured to use a proxy for inbound calls from remote zones tokyo.xyz.com and milan.xyz.com to gateways in its local zone. The sj.xyz.com zone is also configured to use a proxy for outbound calls from gateways in its local zone to remote zones tokyo.xyz.com and milan.xyz.com.

```
use-proxy sj.xyz.com remote-zone tokyo.xyz.com inbound-to gateway
use-proxy sj.xyz.com remote-zone tokyo.xyz.com outbound-from gateway
use-proxy sj.xyz.com remote-zone milan.xyz.com inbound-to gateway
use-proxy sj.xyz.com remote-zone milan.xyz.com outbound-from gateway
```

Because the default mode disables proxy communications for all gateway calls, only the gateway calls listed above can use the proxy.

In the following example, the local zone sj.xyz.com uses a proxy for only those calls that are outbound from H.323 terminals in its local zone to the specified remote zone germany.xyz.com:

```
no use-proxy sj.xyz.com default outbound-from terminal
use-proxy sj.xyz.com remote-zone germany.xyz.com outbound-from terminal
```



Note Any calls inbound to H.323 terminals in the local zone sj.xyz.com from the remote zone germany.xyz.com use the proxy because the default applies.

The following example removes one or more proxy statements for the remote zone germany.xyz.com from the proxy configuration list:

```
no use-proxy sj.xyz.com remote-zone germany.xyz.com
```

This command removes all special proxy configurations for the remote zone germany.xyz.com. After you enter a command like this, all calls between the local zone (sj.xyz.com) and germany.xyz.com are processed according to the defaults defined by any **use-proxy** commands that use the **default** option.

To prohibit proxy use for inbound calls to H.323 terminals in a local zone from a specified remote zone, enter a command similar to the following:

```
no use-proxy sj.xyz.com remote-zone germany.xyz.com inbound-to terminal
```

This command overrides the default and disables proxy use for inbound calls from remote zone germany.xyz.com to all H.323 terminals in the local zone sj.xyz.com.

In the following example, the local zone sj.xyz.com is configured to use a proxy for inbound calls and outbound calls that use the H.225 Annex G border element co-located with the gatekeeper:

```
use-proxy sj.xyz.com h323-annexg inbound-to gateway
use-proxy sj.xyz.com h323-annexg outbound-from gateway
```

In the following example, the local zone sj.xyz.com is configured not to use a proxy for inbound calls and outbound calls that use the H.225 Annex G border element co-located with the gatekeeper:

```
no use-proxy sj.xyz.com h323-annexg inbound-to terminal
no use-proxy sj.xyz.com h323-annexg outbound-from terminal
```

The following example removes one or more proxy statements for the H.225 Annex G border element from the proxy configuration list:

```
no use-proxy sj.xyz.com h323-annexg
```

Related Commands

Command	Description
show gatekeeper zone status	Displays the status of zones related to a gatekeeper.

user-id

To match a call based on the user-id field in the Session Initiation Protocol (SIP) uniform resource identifier (URI), use the **user-id**command in voice URI class configuration mode. To remove the match pattern, use the **no** form of this command.

user-id *username-pattern*
no user-id

Syntax Description

username-pattern	Cisco IOS regular expression pattern to match against the user-id field in a SIP URI. Can be up to 32 characters.

Command Default

No default behavior or values

Command Modes

Voice URI class configuration

Command History

Release	Modification
12.3(4)T	This command was introduced.

Usage Guidelines

- You can use this command only in a voice class for SIP URIs.
- You cannot use this command if you use the **pattern** command in the voice class. The **pattern** command matches on the entire URI, whereas this command matches only a specific field.

Examples

The following example defines a voice class that matches on the user-id field in a SIP URI:

```
voice class uri r100 sip
 user-id abc123
```

Related Commands

Command	Description
destination uri	Specifies the voice class used to match the dial peer to the destination URI for an outgoing call.
host	Matches a call based on the host field in a SIP URI.
incoming uri	Specifies the voice class used to match a VoIP dial peer to the URI of an incoming call.
pattern	Matches a call based on the entire SIP or TEL URI.
phone context	Filters out URIs that do not contain a phone-context field that matches the configured pattern.
voice class uri	Creates or modifies a voice class for matching dial peers to calls containing a SIP or TEL URI.

Command	Description
voice class uri sip preference	Sets a preference for selecting voice classes for a SIP URI.