

Release Notes for Cisco 8000 Series Routers, IOS XR Release 24.2.21

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Cisco 8100, 8200, 8600, and 8800 Series Routers

What's New in Cisco IOS XR Release 24.2.21

Cisco IOS XR Release 24.2.21 is a service pack release for Cisco 8000 Series routers. There are no new software features or hardware introduced in this release.

For more details on the Cisco IOS XR release model and associated support, see Software Lifecycle Support Statement - IOS XR.

Release 24.2.21 Packages

The Cisco IOS XR software is composed of a base image (ISO) that provides the XR infrastructure. The ISO image is made up of a set of packages (also called RPMs). These packages are of three types:

- A mandatory package that is included in the ISO
- An optional package that is included in the ISO
- An optional package that is not included in the ISO

Visit the Cisco Software Download page to download the Cisco IOS XR Service Pack images.

To determine the Cisco IOS XR Software packages installed on your router, log in to the router and enter the **show install active** command:

```
Router# show install active
Active Packages:    XR: 224    All: 1581
Label:              24.2.21-iso
XR Software Hash:      46ba78930c871e16c6184270b2281df9e72abc7f622bc708fa96c179d53f4a20

Optional Packages                                                  Version
-------------------------------------------------- ----------------------------
xr-8000-l2mcast                                                  24.2.21v1.0.0-1
xr-8000-li                                                       24.2.21v1.0.0-1
xr-8000-mcast                                                    24.2.21v1.0.0-1
xr-8000-netflow                                                  24.2.21v1.0.0-1
xr-bgp                                                           24.2.21v1.0.0-1
xr-cdp                                                           24.2.21v1.0.0-1
xr-eigrp                                                         24.2.21v1.0.0-1
xr-healthcheck                                                   24.2.21v1.0.0-1
xr-ipsla                                                         24.2.21v1.0.0-1
xr-is-is                                                         24.2.21v1.0.0-1
xr-k9sec                                                         24.2.21v1.0.0-1
xr-li                                                            24.2.21v1.0.0-1
xr-lldp                                                          24.2.21v1.0.0-1
xr-mcast                                                         24.2.21v1.0.0-1
xr-mpls-oam                                                      24.2.21v1.0.0-1
xr-netflow                                                       24.2.21v1.0.0-1
xr-ops-script-repo                                               24.2.21v1.0.0-1
xr-ospf                                                          24.2.21v1.0.0-1
xr-perf-meas                                                     24.2.21v1.0.0-1
xr-perfmgmt                                                      24.2.21v1.0.0-1
xr-rip                                                           24.2.21v1.0.0-1
xr-sandbox                                                       24.2.21v1.0.0-1
```

```
xr-telnet                                                       24.2.21v1.0.0-1
xr-tftp                                                         24.2.21v1.0.0-1
xr-track                                                        24.2.21v1.0.0-1
```

To know about all the RPMs installed including XR, OS and other components use the **show install active all** command.

To view all supported Cisco IOS XR Software upgrades from the current version according to the support data installed on the running system, enter the **show install upgrade-matrix running** command:

```
Router# show install upgrade-matrix running
Matrix: XR version: 24.2.21, File version: 1.0, Version: N/A

The upgrade matrix indicates that the following system upgrades are supported from the current XR version:

From       To         Restrictions
---------- ---------- ------------------------------------------------------
24.2.21    24.1.1     -
24.2.21    24.1.2     -
24.2.21    24.2.11    -
24.2.21    24.2.2     -
24.2.21    24.2.20    -
24.2.21    24.3.1     -
24.2.21    24.3.2     -
24.2.21    24.3.20    -
24.2.21    24.4.1     -
24.2.21    24.4.2     -
24.2.21    25.1.1     -
24.2.21    7.10.1     -
24.2.21    7.10.2     -
24.2.21    7.11.1     -
24.2.21    7.11.2     -
24.2.21    7.11.21    -
24.2.21    7.3.4      Target fixes; Caveats; Replace performed via reimage
24.2.21    7.3.5      Target fixes; Caveats; Replace performed via reimage
24.2.21    7.3.6      Caveats; Replace performed via reimage
24.2.21    7.5.3      Target fixes; Caveats; Replace performed via reimage
24.2.21    7.5.4      Target fixes; Caveats; Replace performed via reimage
24.2.21    7.5.5      Caveats; Replace performed via reimage
24.2.21    7.7.2      Target fixes; Caveats; Replace performed via reimage
24.2.21    7.8.2      Target fixes; Caveats; Replace performed via reimage
24.2.21    7.9.1      Caveats; Replace performed via reimage
24.2.21    7.9.2      Caveats; Replace performed via reimage

Add the from and to versions to the end of the CLI command, for data on versions with additional restrictions

For example, to display restrictions for the 24.2.21->24.1.1 upgrade, use
        'show install upgrade-matrix running 24.2.21 24.1.1'
```

The software modularity approach provides a flexible model that allows you to install a subset of IOS XR packages on devices based on your individual requirements. All critical components are modularized as packages so that you can select the features that you want to run on your router.



Note The above show command output displays mandatory packages that are installed on the router. To view the optional and bug fix RPM packages, first install the package and use the **show install active summary** command.

Cisco 8000 Series Router Caveats

Open Caveats

The table below lists severity 1 and 2 caveats that are open in the Cisco 8000 software release 24.2.21.

The bug status may have been changed post release. Click the bug identifier link to view the latest status and workaround for the bug in the Bug Search Tool.

Table 1: Cisco 8000 Series Router Caveats Open at 24.2.21 Release

Bug ID	Headline
CSCwo47752	Commit best-effort with specific config leads to config inconsistency between sysdb and SR-TE
CSCwo71522	24.2.21 EFT Testing - Malformed UPDATE - contains wrong nexthop length of 48
CSCwo80895	Install upgrade failed with "error: %prein(libvirt-6.1.0-r0.41.128.4.corei7_64) scriptlet failed
CSCwo70575	DHCPv6 binding were deleted after reloading one of SERG node in Active-Active setup
CSCwo79827	Loss of DHCPv6 PD Bindings and SERG Sync Issue Post Core Interface Flap

Table 2: Cisco 8000 Series Router Caveats Open after 24.2.21 Release

Bug ID	Headline
CSCwq74778	Commit replace is consistently failing due to QOS: "Object is in use: Class-map "TC1" of type "qos" is used by policy-map(s). Delete failed
CSCwq49550	Leaba SDK 24.2.1.42

Resolved Caveats

The table below lists all the bugs that were resolved in the Cisco 8000 software release 24.2.21.

For more information about the resolved bugs, go to the Bug Search Tool.

Table 3: Cisco 8000 Series Router Caveats Resolved in 24.2.21 Release

Bug ID	Headline
CSCwk75588	optics driver continuous crash with inserting 40g SR4, 400G DR4+ optics
CSCwo71522	24.2.21 EFT Testing - Malformed UPDATE - contains wrong nexthop length of 48
CSCun51836	eem_server crash when Failover and Failback
CSCvy76952	devc-vty MUTEX blocked on tty_conn_lock_module_inline during SSH script running in background

Bug ID	Headline
CSCwa45004	733.18i AIB crash due to leaks in libofa_fwdlib_utils PD library
CSCwm36334	Interface creation failing after LC reload and ifmgr blocking processes
CSCwf58923	show license summary shows "registered" however, PD shows license is unregistered.
CSCwd05842	Late EOD from BGP causes a flap for pending remote labels
CSCwi83602	L2FIB does not honor probing of Pure-Remote EVPN IPMACs causing convergence delay
CSCwd67435	Xrd Control Plane Packet Memory Depletion seen when IPv6 ICMP unreachable requests generated
CSCwj52678	On-Change data for RIB route data hung in initial sync
CSCwm59148	[SIT 2422.19i] optics_driver blocked on mutex at 'mgd_timer_node_lock_tree:563'
CSCwh42439	beyond capacity of supported VOQs on 88-LC0-34H14FH the breakout configuration is not failing
CSCwq49550	Leaba SDK 24.2.1.42
CSCwn41427	PBR objects are deleted after process restart ifmgr
CSCwi97010	fru ctrl mib : potential race condition where in insertion trap for PM module not seen.
CSCwk28155	Escalating dot1x traps to avoid double punts
CSCwj60477	Intermittent lane information update issue for SFP-10G optics in snapshot
CSCwm95889	Spitfire: need remove "show ofa trace" from "show tech fabric"
CSCwk57015	show bundle command shows wrong count for standby interfaces when forwarding-unviable is configured
CSCwn30113	Cisco 8818 Active RP reloaded due to kernel dump
CSCwn54599	Memory leak in account_credentials_finalize
CSCwn93210	24.4.1 release | Linecard specific slot location not visible on 8712-MOD-M chassis
CSCwn87774	emsd crash @ _cgoexp_ with electionID not provided in p4rtsessionMsg
CSCwn92847	Eliminate the duplicate show commands and replace any commands starting with 'sh' instead of 'show'
CSCwk74011	"sh route ipv6" unresponsive afte nhg scale
CSCwe41396	BRT ZR+: All Muxponder interfaces stayed down post toggling transceiver-disable/no transceiver-disab
CSCwi26117	Autoneg enabled and reload performed, AN enabled ports keep flapping
CSCwj95969	Netconf process crash caused by Netconf get during software install operation
CSCwc62956	npu_drvr crash in 73x during 73x --> 772 upgrade
CSCwc81590	Dauntless : Integrate FPGA: Redcliff FPGA v1.9 and Exeter_d v0.91
CSCwn44267	[25.2.1.03I] Error: Failed to save files for reimage: Error when copying /var/xr/disk1/.sppdc

Bug ID	Headline
CSCwb28200	The npu_drvr process may restart unexpectedlyon the 8000 after executing ‘show tech platform-fwd’
CSCwm80702	[MAB] dot1x process exception when same client MAC is seen on multiple ports
CSCwm67681	Corsair Bright ZRP fan profile
CSCwo80895	Install upgrade failed with "error: %prein(libvirt-6.1.0-r0.41.128.4.corei7_64) scriptlet failed
CSCwn68979	Long execution time for Custom showtech command on the 8818 using XR version 24.2.20
CSCwk58857	Feature to enable MPLS label only hashing for underlying non-IP payload
CSCwd95889	RP Shelfmgr crash in fpgalib_access_read_over_p2pm_rmt
CSCwd79174	Glandon:7.9.1 14I-GNSS keep flapping though the GNSS RF feed to the module is removed
CSCwi69735	ROUTING-FIB-2-LSPNH_ASYNC_ERROR, MPLS_PREFOBJ_GID_EXISTS - during topology churns
CSCwi87859	[8608] 4.3 HV ACDC 120v AC is raising alarms in the system
CSCwi63033	npu_drvr crash seen on cisco 8804
CSCwh55477	GB LC Disk partition corruption during install op, after it reloaded due to a mandatory proc restart
CSCwf00645	Yukon: Optics driver crashing after bootup
CSCwm50470	Set coherent optics to low power mode before module power off
CSCwe81210	Madone: DUT as primary not locking to internal, Esync not working.
CSCwe35816	breakout port (TwentyFiveGigE) not up after shut no shut trigger
CSCwi39433	Cisco 8000 FANs speed running full speed every 10 minutes
CSCwi41757	8K | optics_ma crash after "no interface Bundle-Ether*" commit
CSCwm92657	sh controller optics cli become non-responsive sometime
CSCwk94942	Cisco IOS XR Software Access Control List Bypass Vulnerability
CSCwj81042	Optics driver stuck during controllers creation
CSCwj92928	Traffic drop seen during transition from LDP to SR
CSCwj32630	change the 8818-FC0 card and 88-LC0-34H14FH card, low power profile voltage
CSCwj37052	ASIC HARD_RESET needed error syslog needed wording change to reflect no action needed
CSCwk10571	Replacing existing ACEs with remark ACEs not freeing the TCAM resources
CSCwj67540	FC link down with destroy_pending during LC OIR
CSCwj81084	Mutliple SPP crashes observed on OWR, continuous swan prog happening
CSCwk68587	IPSLA hw-timestamp disable not working
CSCwk07052	ospf crash @otl_node->num_fad with peer node triggers
CSCwk27836	After active SC reload syslogd process stucked in Mutex

Bug ID	Headline
CSCwj93371	QoS ACL modification via commit replace taking a long time to complete
CSCwk02884	Multiple threads in TCP are blocked on the thread performing read operation linux integration code
CSCwk98998	TCP dump directory missing on the standby RP
CSCwj97322	show drops command has stopped working on 8808 router
CSCwn50929	ERSPAN mirrored traffic is not shaped based on the traffic class applied under the monitor-session
CSCwn56112	Traffic rate got flapped after few mins of MPLS TE Flex-LSP path switchover
CSCwn48377	Acking of GPIO interrupt after processing it in optics-driver
CSCwn48614	ERSPAN with ACL - momentary drop condition
CSCwn47388	24.2.2 8808-LSR-P1 Manual reopt works but autoReopt for RSVP-TE Bypass LSP isn't triggered.
CSCwn49808	TE tunnels are not fowarding correctly when ROUTING-FIB-2-TE_GID_EXISTS : Tunnel programming seen
CSCwk78839	Continuous ROUTING-FIB-3-PLATF_UPD_FAIL : Obj=FIB_DATA_TYPE_NHINFO errors after remote link flaps
CSCwm28720	Removing ECC1B config cli option in XR
CSCwn02234	2431-Unprotected tunnels Traffic rate not going to 0 which are in down state after primary path shut
CSCwn05835	interface data (BW) rate been fluctuating leads LSP path change (LSP flap) with fixed traffic rate
CSCwk98842	Interface input / output rate statistics are not consistent with continuous traffic
CSCwm27261	SU from 2422.13i to 2422.15i failed due to "maximum restart attempts exceeded for fib_mgr
CSCwm46453	Unable to build notifier-operations list, client: 'Unkn', full_name
CSCwm68864	invmgr crash seen @ invmgr_ocplat_pcie_open with RPFO
CSCwm97001	BIT-SF/25.1.1 BGP traceback with ROUTING-BGP-2-MEMORY_OVERRUN
CSCwn35710	[8000_hw_distributed_sanity]BVI adjacencies are not up post remove/re-add interface
CSCwm29453	A user-initiated Linux process continues execution without a parent VTY session
CSCwm75558	Cannot reach the destination known via SLAAC from bash
CSCwm92904	MGBL-IFSTATS-4-COLLECTOR_TIMEOUT due to process pbr_ea timeout
CSCwm50752	ssh failure due to call to vty_monitor failed upon reload
CSCwm52798	cbqosmib OID polling timeout with scaled setup having few preconfigured interfaces
CSCwm84297	invmgr leaks and crash on backrground gNMI / gNOI sessions
CSCwm32146	CEF not processing BCDL buffers [IPv6 NA dropped after reload operation]
CSCwn99103	show tech custom system collection is incomplete for RP node in CVT

Bug ID	Headline
CSCwn82880	Remove duplicate traces from showtech custom
CSCwn90066	sat_ma core Due to Stats Request in ABORTING State
CSCwn90345	port remaining in down state post PRBS stop with control traffic through link
CSCwn62362	ISIS SR uloop may not be triggered during link up event.
CSCwo21831	Incorrect qos marking of injected packets Cisco 8000 for L2-AC as egress interface
CSCwo44029	Intermittent OC config push fails with operation failed error
CSCwo77855	Fixing QoS statistics spikes/dips due to missing hardware timestamps
CSCwo76675	Add MTU value along with when adding a route to send the packets out via to_xr
CSCwf68073	Integrate FPGA: Churchill: Release valentine cpu fpga[x86Fpga] 1.89 image
CSCwd37438	8K Upgrade from 7.3.15 to 7.5.2 leads to additional silent reload because of BMC Fpga upgrade
CSCwh46377	[SF-C Wasp] Disable auto-trimming in power sequencer for SC & add support for set_voltage in LTP88XX
CSCwh24668	Optics access failure can result in Port being down.
CSCwi72340	Continuous Platform update failed for 316 interface: FIB_FEATURE_IF_TYPE_IPV4_ALL_INTF logs from GB
CSCwb76432	[SIT 771.20i]Config with 2 counters from same counter group is getting blocked with OOR error
CSCwb85143	Default ICMP flows are mapped to raw-default LPTS
CSCwa72657	PBR decap stats for GUE are not reported for non-default UDP ports
CSCwe15204	IPv6 ACL commit failed - 'OFA' detected the 'informational' condition 'OFA NPD Server'
CSCwi83268	Need to change flow-tag mask to 6 bit instead of 7
CSCwd91259	npu_drvr crash@srte2_bsid_log_delete_failure seen with srte tunnel flapping
CSCwe10189	754.24i enhance rx_inject packet path for management packets
CSCwc94612	parser_server crash after it reached max connection-handle limit to sysdb
CSCwe19368	Continuous ROUTING-FIB-2-MPLS_PREFOBJ_GID_EXISTS errors after SRTE & RSVP/TE tunnels flap
CSCwf55415	Packets not getting captured for erspan in 7.11.1 13I
CSCwd60991	Remote node cannot receive BFD packet from Cisco8000 immediately
CSCwd51010	Spitfire: ipv6 SIP is corrupted for MPLS + ipv6 Egress punted packet (like MTU exceeded)
CSCwa17890	interface configuration missing on one LC after chassis restart
CSCwd46749	DMR not received for Bundle Sub Up Mep with rewrite tag push config
CSCvz88127	After removing interface from ISIS and doing process restart isis, observing ipv4 traffic drop
CSCwc45032	Spitfire Glandon: NPU nsec is more than CPU nsec sometimes, causing servo to jump back 1s

Bug ID	Headline
CSCwi75344	npu_drvr crash see on Madone / Glandon
CSCwi78996	Sending flowspec policy with protocol range statement can stop flowspec operations
CSCwi10764	ipv4 Hybrid ACL attachment towards ingress failing after ifmgr restart
CSCwi44652	Everest: gift_mgr: HW programming failed, exceeded the maximum number of retry attempts 70 on Bundle
CSCwi45287	%ROUTING-FIB-4-RETRYDB_NONEMPTY : | No local label in RIB due to OSPF Route withdraws
CSCwh86432	HW hitcount not showing for bundle interfaces with interface-statistics enabled
CSCwi14125	Continuous MGBL-IFSTATS-4-COLLECTOR_TIMEOUT errors with route flap
CSCwf45507	SFD4 chassis- Synche not locked over line card interfaces - shows as Unqualified
CSCwh80962	IPv6 NS packet with checksum 0EC8 gets dropped in slowpath due to misclassification as BFD with UMPP
CSCwf50917	The adjacencies are not coming up for some of the interface after reload trigger
CSCwh68369	CFM sessions are continously flapping
CSCwf41960	Glandon: npu_drvr crash at epoll_pwait after clear mils lap avi
CSCwh02796	735_MTB: GB/PC: both LPM/CEM table for v4/v6 on both GB and pacific is broken
CSCwh03243	High memory usage of fib_mgr due to deletion failure of AIB routes- Spitfire PD fix
CSCwf21052	7101_21i: Route/Label Programming failed after peer node interface flap
CSCwf25441	400G ZR link is taking long time to come up on triggering shut/no-shut on fully populated router
CSCwf38226	the fabric cards on the 8000 platform may not reload gracefully
CSCwe50868	BGP sessions flap with an mpls mtu of 68 configured
CSCwe97542	/misc/scratch/ Core, Config & Shutdown directories are missing on active RP post router bootup
CSCwe99479	6vpe: Netio PD is not using the VRF info for MPLS preroute when the Punt packets are handled
CSCwe57556	Spitfire RTBH: High number of backwalk to rec. prefixes
CSCwe58682	7.10.1.14I WASP:- CFMD crash is seen after commit replace trigger - 3 times b2b
CSCwi03004	Memory leak when FC cards are reloaded
CSCwi66903	ICMPv6 NS Packets Being Sourced With Incorrect MAC Address
CSCwj37061	tmport_delete/tmport_create failure handling
CSCwj10480	Ingress traffic dropped after linecard reload in 8812 due to NPU Fabric programming failure
CSCwj19871	Slugger: Invalid GID as 10 paths: fib_trans_id,1272061for prefix are configured
CSCwi00550	NCS540: Empty physical port led are green, used ports led are off

Bug ID	Headline
CSCwk62108	New vulnerability (CVE-2024-6387) in OpenSSH
CSCwc25111	RIB: BGP will use backup metric when enabling AIGP in BGP LU
CSCwj19537	Modifying ltrace infra option while decoding traces with location all
CSCwc30649	CB: Optics driver process crash observed in 781 16i and 781 17i
CSCwd94147	FIB platform update failed: Obj=FIB_DATA_TYPE_MOL platform update failures on LC reload
CSCwf09091	7.10.1: When NVE interfaces are configured for VXlan, ping fails for other interface
CSCwo70575	DHCPv6 binding were deleted after reloading one of SERG node in Active-Active setup
CSCwo79827	Loss of DHCPv6 PD Bindings and SERG Sync Issue Post Core Interface Flap
CSCwn57992	show tam firmware crc and restore status as part of the show CLI
CSCwc04344	[Lngvt SIT 771.25i] Mem leak on mibd_entity process 'strdup' & 'imci_insert_entry' after LC reloads
CSCvs09610	CFP2_100G: OIR of optics of different type has some issues
CSCwc59076	Inconsistency in programming of XID flags in L2FIB PD across Line cards on the same router
CSCwk73522	GRPC get is not working, 'YANG framework' detected the 'fatal' condition 'Not authorized’
CSCwe89270	ACL counters do not increment
CSCwj35305	Configuration replace with pattern adds an "exit" statement in nested configuration and commit fails
CSCwk39100	Showtech custom collected empty for non cisco-support user
CSCwb77916	DHCP packet is sent with all 0s as source mac address
CSCwd10748	CiscoSSH Netbroker BPF overhead on LWM
CSCwk80707	Router is not taking ISIS passive config when doing a gnmi update replace resulting outage
CSCwb97940	Fec usage going high with 4 % each time when we shut of the link connected to peer node
CSCwb30422	771-14i SIT : Data path down on GRE 2-pass. Reason : RxTrapMyMacAndIpDisabled : drop on disposition
CSCvw44842	FEC configuration does not work
CSCvz76150	Ping fail over GRE intferface holding QoS post dp_launcher/dpc_rm_svr process restart or LC reload
CSCwb80659	Fix for PPPoE sessions are not connected when dynamic template with ipv6-mtu configured
CSCwc21919	Fib_mgr traceback after clear isis route and clear isis process trigger
CSCvw64797	ARP entry stuck in Incomplete despite BGP EVPN update
CSCwn55129	/usr/bin/script a child process of run_cmd intermittently doesn't terminate
CSCwb54785	Ncs5500 upgrade failed from 664/663 to 734.17I with "Failed to prepare logical volume for new VM"

Bug ID	Headline
CSCwc57517	Move rshldi ifec_key to the LDI clean-up context
CSCwj89555	Backout of YFW accounting
CSCwc46085	NCS5500: envmon_ui process crash is observed on Longevity test
CSCwc83072	IPV6 dying gasp incorrect DSCP value CS0
CSCwc86345	WASP: ARP is not resolving or stuck in incomplete state due to arp cap missing after router reload
CSCwc91669	ISSUE SEEN : 25 % Traffic Loss seen when process restart cem_driver is performed
CSCwd08582	ISIS forward adjacency named tunnel metric not updated after configuration change
CSCwc68206	6532-final: After Active RP upgrade FEC programing is not happened properly and cfm meps timeout
CSCwc80425	FGID resync failure after xLeaf reboot resulting complete BUM traffic failure.
CSCwc63904	1KB IDPROM support for NCS5700 pids FTs
CSCwc75916	NCS 734 - ERSPAN stops working after LC reload
CSCwd00082	Noise transfer test is failing on Peyto
CSCwd15125	netconf process crashes when querying for native model
CSCwc02468	FIB asynchronous warning for table,ipnhgroup,failure-reason,ENOENT: No such file or directory
CSCwc79728	NCS 560 Interstellar : ISSUE SEEN : standby NSR not-ready when the Node is Booted with 7.8.1.24I
CSCwb01773	Fix calvados ldpath script to adhere to rpm4
CSCwc52993	L2VPN imposition issue for single VC out of multiple PW
CSCwb10129	[SRv6 ELAN]: LSP Mac still existing after disable mac learning and Clear mac with multi LC
CSCvz06927	SSH connection stuck & failed to login with 100% cpu utilization for devc-vty in stress test
CSCwc49229	FIB asynchronous warnings wrt ip6nhgroup after uplink/side link Bundle sub-interface flap
CSCwc59942	Bundle AC in BD - Remove/add last/first bundle member in one NP is affecting other NPs
CSCwc60500	Variable length of delay getting added for credo phy ports on ether profile after brcm sdk migration
CSCwc26174	NTP panic threshold handling requirement
CSCwc29679	Polling the QoS MIB returns no instance for cbQosCMPrePolicyByte* on egress policy
CSCwc43208	NCS4K: Tunnel goes down when RSVP is migrated between chassis
CSCwm44375	OC-NI: bad-element error when trying to remove static route by replacing with no static route config
CSCwn19955	Continous te_control process crash due to path-selection 'random' with 65k parallel paths

Bug ID	Headline
CSCwc02011	single BGP-RR used for reflecting IPv6-UNI via IPv4(MPLS) and IPv6(SRv6) mixes IPv6-UNI and IPv6-LU
CSCwb98538	OC-AFT Pushed Label Stack output list is in reverse order
CSCwc06985	Punt packets dropped at NPU for ipv6 packets due to race condition in FEC & DPA table.
CSCwc07487	Empty attribute list build up with no valid attributes leading to high memory consumption
CSCwc11036	After router reboot egress QoS policy doesn't apply "set cos" to traffic
CSCwc45668	SF: Lancer LC fails class C PTP 1PPs cTE in the BC mode repeat test
CSCwb97937	Encap usage for mpls nh is increasing each time with 4k with Peer node Reboot
CSCwc11271	xtc_agent continuous increase in memory usage
CSCwc41723	BFD sessions stuck at UNKNOWN state after xcare run -entire config/rollback, a few proc restart etc.
CSCwc42511	753: Getting "contains invalid UTF-8 data when parsing a protocol buffer" when decoding mdt data
CSCwb65194	Adjacency not populated across all the LCs due to missing adjacency notifications via CDS
CSCwb74414	ptp scale is not holding good for 64 sessions
CSCwb77853	CB: 400G/100G Links Flaps are seen randomly (bootup) on port number 0 4 52 on power cycle trigger
CSCwc39713	Sessions not able to sync in secondary node for both iedge and pppoe
CSCwc54153	BFD Session stuck in Init state on standby leading to ISIS not reaching NSR ready
CSCwc54528	During Fiber restore WSS attenuation is set to 0 dB for 10 channels
CSCwc54952	netconf crash seen @aaa_get_user_data
CSCwc56403	local-label conflict detection mechanism incorrectly report some BGP labels
CSCwc57301	NCS5500 7.5 QoS matches all IPv6 traffic to first class-map for traffic port matching
CSCwc93941	771: Boolean List Track configured delay up not getting applied during reboot/reset
CSCwd04411	After RP failover EVPN should not advertise to BGP until RSI information is received
CSCwe92720	Band is not recovering after changing the Amplifier gain mode to Normal from Extended mode
CSCwb13644	fib_mgr gets blocked for mins due to "clear route afi-all safi-all"
CSCwc67626	Backbone traffic blackholing on egress L3VPN PE
CSCwc33550	781.15: SDK hardware internal error is seen when removing the core sub interfaces
CSCwc22954	NCS5508 | 753-13i | Changing tunnel destination subnet mask w commit replace fails
CSCwc24558	Label programming failure/Traffic drop due to GID exist after doing RPFO & delete/add SR-TE policy
CSCwc29382	IOS-XR (64bit) platforms - Does not support FQDN >63 characters

Bug ID	Headline
CSCwc35820	[ncs1001] After FPD upgrade - Traffic affected, missing channels
CSCwc48764	unable to filter(debug) specific route while using RPL in 753
CSCwc52776	l2vpn session up with tunnel, after removing EVPN config/SRTE config
CSCwc53237	Config Loss Seen when we move the Build from 7.8.1.18I to 7.8.1.19I.
CSCwc64527	EVPN VPWS session is up, though MTU is mismatched with enforce-mtu-match
CSCwc27100	SYNC LED turns off randomly for days on standby RP
CSCwk09244	Part II - race condition between FRR and RIB leads to high convergence | PI
CSCwc61816	Backup files created under /var/log not deleting due to that /var/log 100% full upon script running
CSCwc36675	7.8.1 17i DNX-BIT Y1564 service activation test results Rx packets: 0 in NCS5500 Eyrie
CSCwn26834	FIB to delete EA attributes on Interface-Deletion event from IFMGR
CSCtk55505	Malformed DHCP packet causes dhcpd process to crash
CSCwc97849	ISIS may crash or hit potential deadlock in SRv6 setup with BFD
CSCwo51041	Cisco IOS XR Software Management Interface ACL Bypass Vulnerability
CSCwj08598	Send IPv6 NS upon link UP for virtual interfaces for quick probe
CSCwo28279	Service policy with SPI cannot be updated or replaced (via gNMI)
CSCwo64807	Support for gNOI to always reload after software activation
CSCwo21807	when the inner Eth dest MAC address starts with 0x46 or 0x66, leading to an incorrect LB
CSCwq36151	ISIS Purge LSP retain even if after zero age time
CSCwj71331	spurious node down handling has to be moved to admin local shelfmgr/fm
CSCwm86399	Cisco IOS XR ARP Broadcast Storm Denial of Service Vulnerability
CSCwc73777	TSOP : CEM Driver-L2FIB: After Process restart, MPLS Label resync is missed
CSCwc91448	791 - After power cycle (Reload location all) of OLT GE link did not recover
CSCwd04969	NCS4k - PW disposition traffic down after SDR reload due to forwarding on wrong egress interface
CSCwd08758	CVT 753.26i 8100: eem_ed_telemetry process crash during steady state.
CSCwd10644	Smart SFP: t1e1_ea crash with everglade-DC (N540X-16Z4G8Q2C-D) platform
CSCwd20522	EVPN A/A igmp snooping sync fails for (*,G) group, which doesn't go into EVPN database
CSCwd48753	MSFT SWAN: PI sends mplslabel update without any backwalk trigger from PD
CSCwe17793	Madone - Observing optics init failure for CSFP connected optics ports
CSCwc80346	Process "pfilter_ma" crashed after 3 days session churn
CSCwd75868	Cisco IOS XR Software Connectivity Fault Management Denial of Service Vulnerability
CSCwe23841	Satellite access interfaces are not showing in LLDP neighbor list

Bug ID	Headline
CSCwc67691	EVPN OLE pindown failure
CSCwa94596	netconf process crash when freeing session memory
CSCwc52444	optics_driver process crash @fm_fault_clear_soak_timeout_handler
CSCwc62198	NCS5k: 753:BFD with Bundle goes down while removing and adding
CSCwc94082	mpls_ldp process crashed on RP @ ldp_show_edm_parse_arr
CSCwd05250	QSFP-40G-SR4, VID 02 is detected incorrectly as Optics Type: QSFP TYPE 100G ELB CR
CSCwd09122	l2vpn-mgr crash during the l2vpn configuration commit during misconfig of pw-span
CSCwd21366	continuous Tracebacks Obj=FIB_DATA_TYPE_LOADINFO Action=MODIFY Proto=ipv4. Cerr='OFA', after reload
CSCwd29040	Glandon:7.9.1 9I- Gnss_ea process keep crashing
CSCwh18624	"Input_Cur: Invalid sensor read error" alarm caused by swapping V1 Fan with V2 Fan
CSCvz88591	732 BNG SIT : Unable to upgrade image,problem with the running ISO k9sec packaged twice.
CSCwb38334	CVT 6532 - netconf process crashed due to rlimit on running mpls ldp /nodes RPC call multiple time
CSCwd70753	Critical Power Thresholds on DCM
CSCvw55491	xrv9k [xr-dev]: vm-monitor abnormally terminated, restart scheduled after boot up
CSCwc76982	XR partial configuration missing or changed after upgrade or SMUs installations
CSCwd12328	LED-not enabling for port without datapath and pluggable
CSCwd37810	OCNI RSVP/TE telemetry reports missed collections with scaled HE tunnels and auto-tunnels backup
CSCvy94419	DNX J: incorrect TC for PW-SPAN packets
CSCwb20269	SIT-DCI-742cco: mrib core seen with Lc reload
CSCwc77109	Add logic for PCIe tree cleanup prior to graceful and ungraceful card reloads
CSCwk53395	QoS mib DLL in mibd_interface process not processing IM notifications at expected rate
CSCwd10808	BFDoTE MPLS Echo reply for BFD over TE is not sent because BFD session is not ready
CSCwd20342	PA:stats are not getting accountd for sub-intrface in core0
CSCwd22828	MPLS Traffic black-holing due to GLEAN_ADJACENCY
CSCwd27630	BVI incorrectly goes up when no other bridge ports are up
CSCwd32128	show telemetry on optics-oper/optics-ports/optics-port/optics-lanes not seeing any data
CSCwd36327	after switchover, prefix-sid of SegmentRouting disappears from LFIB and trffic loss occurs
CSCwd40815	[FP TE-3.6] EMSD crash when sending gnmi setrequest to config static router
CSCwd01824	ipv6_rib process mutex blocked on avl_hash_iterate:330
CSCwd37562	RIP not working when configured with 32 characters vrf

Bug ID	Headline
CSCvq17751	netconf query on extened-is-nbr subtlv unreserved-bandwidth has wrong path
CSCvz22017	Memory leak in optics_ma/process crash when telemetry is enabled on native Optics sensor path
CSCwc59538	tcp crash seen after bgp process restart
CSCwd22701	PLE: PRBS: After removing the PRBS controllers PM PRBS command retains "CONFIG-PTRN"
CSCwd37823	OSPFv3 on VRF: protocol state is down when VRF name is == 32 character
CSCvz04029	nvgen crash seen on "show commit diff"
CSCwc98246	ipv4_rib process when reaching rlimits blocks ospf,bgp protocols nearly 1hr or more before crashing
CSCwd05142	Aib process continiously crashing on A99-8X100GE-SE LC after adding new Sub-Intf on the Bundle
CSCwd19667	Install downgrade from 7.8.1 to 7.5.1 is broken due to npu_drvr process restart.
CSCwd31341	IS-IS should assert() and crash when running out of memory
CSCwd32773	OSPF on VRF: protocol state is down when VRF name is == 32 character
CSCwd42074	PSU Card type is unknown after XR Upgrade
CSCwi71881	Cisco IOS XR Software CLI Arbitrary File Read Vulnerability
CSCwm59186	Background commit operation fails to work after SSH session closes mid-commit operation
CSCwm30792	syslog backup files are not being deleted from /var/log causing var/log size to increase
CSCwf61076	Madone: Servo is not moving to Phase-Locked
CSCwh15449	MACSEC enabled MPA interfaces stop passing traffic after MPA reload
CSCwf36389	High SHMWIN utilization by fib_mgr
CSCwh02785	Adjacency update filter causing PD data filter on remote line card
CSCwh15317	NCS1014:PSU alarm Thresholds are not reporting on Kepler
CSCvj53434	CPU hog due to IQM_0.Interrupt_Register.PktEnqQnvalidErr
CSCwc30730	Preserve early config across reimage from disk
CSCwc99730	ip-rib Crashes @memdbg_buf_from_hdr During Redistribution
CSCwc99131	fia_driver crash during ip6nhgroup create/update
CSCwf21798	RE: [792-ASR9K-SIT-CPE]- fib_mgr process crash on Tomahawk LC
CSCwi85984	bgp sessions over pwhe interfaces were continuously flapping after applied config and triggers
CSCwc95812	J2: continuous fib_mgr: HW Programming failed for table,mplsnh,failure-reason,InvalParam
CSCwd01536	Install prepare phase may error when determining impacted packages
CSCwc93900	INstorch restart for action commands with bad arguments

Bug ID	Headline
CSCwc94570	BGPLU to MPLS transition is not received, results Route/Label Programming failed
CSCwa51347	DDC: J2 and TCAM OP2 Reset for UFI boxes
CSCwc35622	Tortin : Micron 4GB DDR came to EOL. New DDR4 8GB support need to be added
CSCwm03455	Cisco IOS XR Software Image Verification Bypass Vulnerability
CSCwj39201	Cisco IOS XR Software Dedicated XML Agent TCP Denial of Service Vulnerability
CSCwk63828	Cisco IOS XR Software UDP Packet Memory Exhaustion Vulnerability
CSCwm85686	Cisco IOS XR Software CLI Privilege Escalation Vulnerability
CSCwk15887	Cisco IOS XR Border Gateway Protocol Confederation Denial of Service Vulnerability
CSCwj75456	734: MDT stops streaming IP AFT updates after route churn and v4 aft session getting dropped
CSCwj92242	ES ACL mac-address-mask not configurable via netconf
CSCwk13486	Mac conflict error with config remove/add followed by processes shut and RPFO
CSCwk35485	7.11.2 / Crash in pfilter_ea when modifying IPv6 ACL attached to LightSpeed interface
CSCwk34884	Traffic loss for 2mins due to delayed cef programming upon gsp/bcdlv2 flow-control
CSCwn30836	config replace adds unneeded "exit" statements between modified blocks
CSCwk47734	In place qos config modification results in partial snmpdata.
CSCwj43979	Error: 'Invalid Source Address' when source belonging to a non-default vrf is given in rpc req
CSCwj48705	HPE: handle 0 temperature from ipmitool sdr in onlpdump and ipmitool failure on bootup
CSCwj63992	OC-NI get returns data for non-existing NI
CSCwj64711	BGP is not advertising vpnv4 unicast routes post code upgrade or reload
CSCwj93325	commit replace breaking inheritance when Flex-CLI is used
CSCwk12062	Telemetry is sending incorrect BGP MaxPrefixAdvertisedcount details
CSCwk15875	IPSLA mpls discovery vpn causes repeated ipsla_sa process crashes due to rlimit exceeded
CSCwk23314	ISIS should not advertise link-ids if no neighbor circuit number received during 3-way handshake
CSCwk67118	Admin "show install inactive" cli is getting timed-out if TP SMUs are inactive.
CSCwj49682	tacacsd is trying to lock the queue lock
CSCwj63806	iedged process getting crash due to PQOS Service enable in Radius
CSCwj65322	Issue with Telemetry TCP sessions, stops creating TCP session after sometime.
CSCwj88067	no xml returned on get-config on "http client secure-verify-peer disable"
CSCwk05213	Vulnerabilities in python 3.7.3
CSCwk17468	Restore support for unicast and multicast service-carving configs
CSCwk83268	LPTS binding request from client(UDP) is not successful, error (Address already in use)

Bug ID	Headline
CSCwk22691	optics_ma crash /pkg/lib/libicpe_ma_optics leak
CSCwk46497	EVPN routes not import to BGP VRF with soft-reconfig inbound
CSCwk60995	System shutdown with multiple fan out of tolerance alarms
CSCwk66225	high rate icmp punted packets causing slow path latency on LC
CSCwj59739	show interfaces nve1 reports encapsulation VxLAN instead of MPLSoUDP
CSCwk23402	Deprecate sending of 1-byte state only TLV 240 in 3-way handshake of p2p adjacency
CSCwk47988	Telemetry streaming stops when a collector returns to sustained speed
CSCwj36977	7.11.2.12I: community key truncated for oc-ni bgp rib/communities/community output via telemetry
CSCwj61974	mrib leaking memory @ mrib_ecd_info with continuous core interfaces flapping
CSCwk48157	GNMI incorrect JSON data structure response for cisco_native:/ path
CSCwk64750	emsd and tcp thread deadlock with large numbers of outgoing tcp telemetry sessions
CSCwj66268	Ipv6 Local LSPV data is not same after doing clear route afi-all" trigger
CSCwj68506	MPLS should not subscribe for application-l2vpn-evpn routes from RIB
CSCwk43961	TCP process core seen after process restart mpls_ldp and restart of tcp
CSCwk48894	ifmgr crashes continuosly due to RD exhaustion
CSCwk52393	crash in ospf process when accessing lsdb pointer in epl contr. happens rarely
CSCwk58609	Cisco IOS XR Software Secure Boot Bypass Vulnerability
CSCwk63972	ISIS - Leaked L1 Flex-Algo metric on remote L2L1 router wrong when Flex-Algo is not enabled in L1
CSCwj83495	post op self test failure when packages are more
CSCwk13798	DMZ-Link-Bandwidth Fails to Implement Local UCMP and Apply Extended Community
CSCwk30412	External interface format not accepted for cfm ping via Yang
CSCwk61528	appmgr continuously crashing due to filesystem partition corruption
CSCwn61701	invmgr memory leak cause it crashed during the longevity
CSCwn46643	Subscription for qos policy statistics gives stats only for 1000 interfaces.
CSCwn46772	gNMI subs for form-factor OC leaf empty response for some intf due to missing in insight db
CSCwn49620	BGP crash when receiving SRv6 uSID E-LAN service routes
CSCwm02893	Telemetry IP-AFT initail sync and "show route ipv6 wide" taking more time than previously
CSCwm01200	lpts_pa process crashed when a TCP server is configured to listen on an ephemeral port
CSCwm36621	Flowspec batching not happens during remaining flows retry after problematic flows occurred
CSCwm36922	"fib_mgr" crashes when running BGP PIC-Edge tests using both IPv4 and IPv6

Bug ID	Headline
CSCwm53105	Prefix missing in show running config output after netconf replace operation via OC Local routing
CSCwk98935	gNMI Subscription request failing with error "Error: reached max sensor paths"
CSCwm07046	Standby RP taking more time to bootup | FPD upgrade | scp timeout
CSCwm36069	ISIS NSR NOT READY AFTER 1 MANDATORY STAT MISMATCH WITH STANDBY INSTANCE
CSCwm42496	SRG secondary node unable to sync with the primary BNG node
CSCwk90051	[Ncs560_Ext][R242x] Post RPFO observing te_control process crash
CSCwm40263	BGP Flowspec, traffic down - RT not resolved for the flow
CSCwm43409	some of optics are UNKNOWN in "show diag" and "N/A" in "show inventory" after control_driver restart
CSCwm56621	gNMI subscribe session is active but streaming for most of the the paths is not happening
CSCwm93525	BGP RTC: RT missing in RT-Filter cache after BGP neighbor graceful restart
CSCwn07415	locald_DLRSC aaa tacacs memory leak and process crash qsm_service_thr.
CSCwn10018	Configuration replace adds unneeded "exit" statements for command levels that were not modified
CSCwn20078	IS-IS should advertise bandwidth learned from ifmgr not TE
CSCwn20091	7.11.2 ncs5500, ISIS slow convergence, RIB took ~1.4s to process a single ISIS route
CSCwn58135	Incorrect behaviour seen while performing union-replace operation to change interface IP address
CSCwn37194	RIP process crash on IOS XR when RIP is configured version 1
CSCwn40789	Change LDP logic for graceful handling of unsupported protection type
CSCwm60876	ipAddressEntry.11 object causing slow OID in ipAddressStorageType table gets timeout during SNMPwalk
CSCwm66678	netconf crash seen on sending get-config request
CSCwm71388	Active XR TP rpms are removed as part of install remove
CSCwm73627	MFIB BCDL reset may never happen for pd error
CSCwn22282	Session bringup failure on proxy when CPE request for both IANA & IAPD but Server has only IAPD pool
CSCwn26246	rpki walk with soft-reconfig triggers needless version bump/route refresh
CSCwk69127	ORR not working when injecting local routes route into BGP on RR
CSCwm00535	Netflow server crashes upon BGP route churn with option bgp-attr configured.
CSCwk82982	BIT B4 | single crash in emsd due to YinY init failing
CSCwm74943	With multiple qualified PTP sources but no multi source support, servo continuously corrects
CSCwn56432	IGMP leave on non member port causing IGMP entry to refresh

Bug ID	Headline
CSCwk69409	When doing TWCC IS-IS could treat link-id 0 as if there were no link-ids
CSCwn07428	Cisco8201-32FH/24.2.2:TLV changed from 27 to 127 in the ISIS database.
CSCwk96678	ISIS bfd link down fast detect is not working when neighbor is not RFC6213 compliant
CSCwm41383	ARP entry only appearing in one EVPN peer
CSCwn11673	Initial UDP packet sent from a Linux App sees a large delay (approx 250ms)
CSCwn21823	EVPN-PriSM: EVI BGP RD scale: n^2 loop when adding Auto-RD against existing Static RD
CSCwo02651	Reintroduce NET_RAW capability to appmgr containers
CSCwn87195	Cleanup of audit log file created by run_cmd
CSCwo06251	emsd crash (double free) for gnmi operation, while session cleanup
CSCwn64213	sysdb_mc crash due to lwm buffer 'use after free'
CSCwo00222	Two seconds of traffic drop due to LSP signaling delay when using metric fallback feature
CSCwn96668	RP manual switchover by hw-module reload took about 3 minutes and BGP/OSPF flap
CSCwn92745	intf_mgbl filtering is not correct for subscriber interface for sub-inteface list
CSCwc44867	vic processes memory leak on ASR 9000 Ethernet Interfaces
CSCwr09667	Failure to internally set the sync_done flag in 24.3.30 backout
CSCwm85670	Cisco IOS XR Software CLI Privilege Escalation Vulnerability
CSCwo59319	OC IF counters| Set the gNMI timestamp to be the same as HW timestamp cache is read (last-read-time)
CSCwm56977	Cisco IOS XR Software CLI Privilege Escalation Vulnerability
CSCwo83391	emsd crash during gNMI or Netconf set or get requests (memory corruption)
CSCwo38917	SERG does not work on LNT based platforms
CSCwo25824	Missing subscription collection pack(s) due to destination endpoint resets
CSCwn08493	Cisco IOS, IOS XE, and IOS XR SNMP Denial of Service Vulnerabilities
CSCwj10600	L2FIB is updated after a EVPN remote static mac is learned on a local AC
CSCwj23480	RP/LC goes into SW_INACTIVE when using GISO having third-party SMU
CSCwj06093	BGP process crash seen with removal/add router bgp config
CSCwj19906	AsyncSSH lib incompatibility with IOS-XR 7.10.2
CSCwj05024	On successive removal insertion of SFP port, incorrect data is seen "sh cont o/p".
CSCwj25254	Disclosure of local administrative password
CSCwj25248	Cisco IOS XR Software CLI Privilege Escalation Vulnerability
CSCwh05828	PLE-NID: Alarms: TCM: TCM*id*_LTC, TCM*id*_IAE, TCM*id*_TIM: Not generating alarms.
CSCwe06460	After XR reload, NOSi stopped detecting packet drops due to loosing grpc connection

Bug ID	Headline
CSCwe80206	During bootup observed "INFRA-HEALTHCHECK-3-COLLECTOR_ERROR"
CSCwc22283	OC-AFT gNMI sending multiple notifiation for same NHG
CSCwh28222	B4: Customer issue: CD19: Fib programming failure while using DVT
CSCwh61602	ASR9K OE: 9010 - Active RP prompt failed to come up
CSCwc09784	NCS1010: INVMGR mem leak on running telemetry for Cisco-IOS-XR-envmon-oper:environmental-monitoring
CSCwb27473	Install does not handle duplicate OS packages correctly
CSCwb32629	Not able to ssh/scp after doing install package replace from 732 to 731 image.
CSCwc27357	[SIT 771.31i] Upgrade fails with FC Shut + RPFO combination & FPD shud send timeout notif to install
CSCwd90389	Post SMU installation on node (GISO image),tried RP warm reboot triggered Disaster recovery
CSCwb34150	The ISIS process may restart unexpectedly after multiple RPFO's
CSCwa67499	fib_mgr crashed at ofa_fib_exec on all LCs after peer router reload
CSCwa51995	GB LC reload due to X86 CPU CATERR in steady state
CSCwd92817	Package manager error "Failed on package package" and notfid abnormal termination during install
CSCwb47604	CARD FAILED after shutdown due to extra hw_deinit
CSCwc07349	SNMPD process crash in sock_lnx_db_flag_clear while system coming up
CSCwd63962	Wasp: MPA stuck in DATA PATH POWERED ON waiting for ACK from Optics driver
CSCwh17402	pwhe_ma[208]: %L2-L2VPN_MA_PWHE-3-REPLICATION_FAILED : Interface replication failure after RP FO
CSCwh23135	Wasp: After Swapping MPA Types Interface/CPA info is not updated according to new MPA
CSCwh49050	[MSFT] Critical Alarm not being raised
CSCwf41605	LC not getting reimaged after watchdog stage1 timeout during GRUB booting
CSCwh02866	735: Optics not detected when optics inserted within few sec immediately after LC swap (insertion)
CSCwf95971	Upgrade fails from 782 to 7101 due to node timed out during packaging operation stage
CSCwh29269	pwhe interface stays down after multiple sht/no shut
CSCwh52374	Cisco IOS XR Software SSH Privilege Escalation Vulnerability
CSCwj11240	show optics firmware upgrade output may not be consistent on the 8000 platform
CSCvz71358	Route is not getting programmed in the hardware but pi has the route
CSCwh59152	Adding support to mark SSH client and server packets with set dscp value during initial handshake
CSCwb86414	ccv process crashes multiple times on upgrading from 752 to 771 image

Bug ID	Headline
CSCwi65037	Opt_terminal_device traceback seen during soak
CSCwe54265	Port Mapping issue after upgrade to 7.7.2
CSCwc19896	7.9.1- GNSS satellite count SNMP trap is not getting generated at all.
CSCwd75636	PTP syncs to foreign master in preference to better local clock
CSCwc31681	Persistent DGD (High Differential Group Delay) alarm on ZR optics after reloading router - 7.5.3.15I
CSCwd53310	call_home process memory leak when smart license server is not reachable
CSCwi46104	bgp lu chain create failed due to key exists
CSCwh34435	128 ECMP Under VRF Platform Flags update
CSCwh01598	735: I/F creation failed upon different speed optics OIR immediately followed by same speed OIR
CSCwf98802	7.11.1.25I: B4: UseCase3 programming, following RPFO gribi programmed V4 prefixes are missing
CSCwc89808	Holdover traceability sends 165 instead of configured clock class during switchover in APTS
CSCwe64388	ZRP Mux Telemetry sub periodic 'optics_ma' sysdb timeout, mem leak, optics_ea Rlimit exceeded
CSCwe84276	Traffic outage as interfaces not created during bootup
CSCwj06768	MAC not being learnt on BD due to missing global
CSCwc01033	[762-SIT-VIDEO]-mrib process crash observed on RP while reloading the LC
CSCwb17449	CVT 6532 - pm_ma memory leaking during longevity run - 5 to 6 MB per day
CSCwi01608	Support for explicit EVPN MAC move from ASR9K L2 PD
CSCwj08145	ASR9K: BGP AS fields are not getting populated for IPv4/IPv4 L2-L3 record types
CSCwe10043	[Src behind EVPN AA] Traffic drop when source is disconnected from the switch
CSCwb82695	cpu hog on ipv6_rib post RP failover
CSCwe92825	[8000_pi]Unable to telnet to routers during nightly firex sanity runs on 79x image versions
CSCwn97680	Advantage license is overconsumed when SR-TE is configured with MACSec etc. on the same interface
CSCwe19703	[SIT 791.22i] CFM LLF-CFM is overriding the interface state if the port is tx-disabled & flaps
CSCwe24417	7.10.1 - L3 Port Active Redundancy State Signaling is Up causing Traffic Drop on the nDF node
CSCvx87554	EVPN SA MH with L2FRR: remote PE sends L2 unicast traffic to NDF router while not DF router
CSCwa79162	Threshold values of DFB 0/0/0/0 PM are remain -30.00 for configuration range -27.01 to -29.99
CSCwe15890	NCS1004 OC Regen config not getting pushed to node and the LC card is not provisioning

Bug ID	Headline
CSCwd23457	EVPN SFA - Route Type 2 MAC-IP for host route not generated after access shut/unshut
CSCwd49485	791_14i DNX-BIT:Bundle interface which is part of EVPN Ethernet segment are stucked as LACP OOS
CSCwd22398	EVPN vES AC dual-homing: original DF stays as NDF after process restart l2vpn_mgr and bgp
CSCvz88501	CFM peer meps flap on OIR of unrelated LC
CSCwi80459	BAU getting registered with SLR
CSCwi33210	EVPN subif-vES commit-replace/rollback - MSTIs are programmed for vES MP with no ELAN subinterfaces
CSCwi28114	Incorrect interface name format for CFM ping & traceroute via XML/Netconf
CSCwi57326	Multicast traffic not received at receiver due to improper state of (Type 5) routes in VRF on spoke
CSCwf48799	Permanent traffic flow for few flows in igmp/mld snooping with BVI configured.
CSCwh24209	IGMPSN crash
CSCwe39529	SSH packets over IPv4 ver SRv6 is dropped prior to 7.9.1
CSCwe46088	IGMPSN potential memory leak can lead to rlimit crash
CSCwf73037	EVPN never allocated the global label block for EVI multicast labels during ISSU
CSCwf89722	EVPN VPWS down post migrating from Multi-homing to Single-Homing
CSCwf70176	Multiple PTP-configured interfaces moving to slave state with g.8265.1 profile
CSCwe52955	evpn dh: transient traffic drop was seen after process restart igmpsn
CSCwe87155	PIM to deprecate private Hello option
CSCwe72393	macsec_mka process crash seen when creating macsec policy using Cisco-IOS-XR-crypto-macsec-mka-cfg
CSCwe65671	IOS-XR vs IOS-XE EIGRP MD5 authentication mismatch
CSCwf21310	asr9k: In-line modification of netflow sampler-rate does not work
CSCwi15676	EVPN advertises MAC-IP learnt from L2RIB with NH=BVI-ifh
CSCwi37786	EVPN local MAC doesn't appear in mac-learning table and L2FIB
CSCwh91077	SR-TE advantage feature is overconsuming advantage licenses count
CSCwi50660	Licensing model changes to BAU after RPFO
CSCwj36510	xlncd process repeatedly crashing after restart
CSCwm50966	EVPN ELAN BP Permanence: Routes stay programmed as SYNC in L2RIB on BP unconfig / interface deletion
CSCwa43543	Single-Active PathRes resolution redesign
CSCwj27453	dot1x core generated during dot1x ap run

Bug ID	Headline
CSCwj15423	[legacy-fallback] macsec_mka process crash after reaching r-limit
CSCwj26240	ASR9k: extended router/gateway structures not added for physical-sub interfaces
CSCwj11320	iid flap when ac failure/recovery
CSCwi10620	Crash when configuring 'telemetry model-driven destination-group...'
CSCwh21183	OSPF NSR sync not happening with huge number of opaque-area ext-prefix range TLVs
CSCwi29188	[NCS1K]"PROV-INPROGRESS" alarm declare&clear on optics controller during SIGLOSS Declare or Clear
CSCwi27590	GMPLS-UNI Circuit going down for 2 min during RP switch over cases
CSCwb93756	After LC 8800-LC-48H reload - weight of bundle interface is not restoring back
CSCwb93462	Missing labels on standby RP BGP-VPN4 database
CSCwb92902	Process crash : 'policymgr_ui_show_ltrace' while collecting "showtech pbr"
CSCwc00456	ISIS crashed @isis_ip_topo_reset on configuring single-topology under ipv6
CSCwd61740	BFDoTE: 3ms min-interval is not being configured
CSCwd67148	Backup tunnels DOWN | Signalled via Non-RSVP interfaces
CSCwb40266	ipv6 MTU is not changing after configuring form 1500--> 8986
CSCwb59966	Lightspeed: EVPN-VPWS traffic to remote PE dropped @ "ingress DXID no match drop" after LC reloads
CSCwh68589	Duplicate host detection behind same ethernet segment takes more than 5 moves
CSCwb57430	Local MAC learning database not updated after MAC move
CSCwa01440	lldp_agent process crash due to memory leak
CSCwb68043	With 771.19I and static-sid smu, saw all SRv6 locators stuck in down state after router reload.
CSCwb74208	[762 SIT MBH] : BGP crashes seen on unconfiguring bgp neighbors
CSCwb82436	after process restart of TCP BGP sessions are not coming up
CSCwc01023	l2vpn_mgr crashing in arp client lib during ISSU
CSCwa94865	Mem leak in mibd_interface on running snmpwalk for 1.3.6.1.2.1.4.30 and 1.3.6.1.2.1.4.31 OID
CSCwb79700	Memory utilization on tcp process keep on increasing
CSCwc01950	Avoid forming IPv4/32 next-hop (MPLS) and IPv6/128 next-hop (uSID) BGP PIC-Edge ENCAP combination
CSCwc15701	one BDF session stuck at unknown state after MPA reload then ISIS NSR cannot be ready
CSCwc18805	[771 SIT] RIP routes missing and no response for RIP cli
CSCwc32932	MPLS-TE not getting updated when link attributes change
CSCwb86134	Openconfig AFT next-hop entry missing from telemetry collection - recommit

Bug ID	Headline
CSCwc24466	Unnecessary spf run triggered by sub-tlv11 change.
CSCwh31965	merge/replace at Openconfig-interfaces/interface/ipv6/auto-config fails with Namespace error
CSCwh58160	RIB skipping prefixes during initial sync in event driven telemetry
CSCwi50057	Cisco-IOS-XR-um-interface-cfg: mtu value not getting unconfigured through NSO-NED
CSCwf61917	SR Mapping server sending wrong TLV for multitopology IS-IS
CSCwd60063	Implement backup directory if you cannot open /var/log and unable to login to run
CSCwd80716	Incorrect SRLG in TE topology after un-configuring SRLG and possible memory leak
CSCwa73289	IPSLA configuration causing BGP/NSR sessions to flap due to failed LPTS pifib entries
CSCwb15315	NCS55A1 | 734-12i | MPLS static entries are errored after commit replace
CSCwc38780	fib_mgr crashes with BGP UCMP scenario of IPv6 forwarding over labelled path
CSCwe32349	791.24I: With Global WSRLG enabled, admin-weight is not removed after changing SRLG value
CSCwe41098	EMSD core dump during gNMI.set update with mixed model OC UM
CSCwj41200	Treesid: Need to derive internal stale timer value from state timer.
CSCwj08599	L2fib to provide link Up notification to ND process
CSCwe14677	Replay of Remote MACIP routes on higher sequence delete
CSCwe22538	ISIS installs ECMP path instead of backup path for SR-MPLS Adj-SID.
CSCwe19441	OCIFIP core generated while runnning the sanity in ARP reverse mapping tree
CSCwe21755	BGP PIC over TE is not supported - error msg seen on NCS5500 with no BGP PIC config
CSCwd94105	782-2i: ISSU abort from 732 to 782-2i in LOAD phase : mpls_lsd process crashed on V2 -> ISSU abort
CSCwe08250	IPv6 neighbor fails to establish when compressed ipv6 access group contains a "deny ::/8 any" entry
CSCwd86774	IGP process is not restarted when txlist queue is full
CSCwd92330	Default route not propagated to BGP VPN Peers when "allow vpn default-originate"
CSCwf12117	ISIS: route path is not updated in uloop-delayed state even if the source of the best path changes
CSCwd55201	[oc-macsec]get-config causes netconf process crash with deprecated sak-rekey-interval minutes config
CSCwd61923	Secure ztp not working if OC has certs in a specific order
CSCwd76346	BGP neighbor flap with hold timer expiry after RP failover
CSCwe01192	Route-reflector-client flag unsets due to advertise vpnv4 unicast re-originated stitching-rt
CSCwe08950	Cisco IOS XR Software Compression ACL Bypass Vulnerability
CSCwe27433	Abnormal percentage values observed in telemetry data from spitfire 8201

Bug ID	Headline
CSCwe08346	ISIS may experience slow memory leak in Flex Algo setup with fast-reroute enabled
CSCwe11904	A client marked as DELETING should not be revived from checkpoint
CSCwe10786	gNMI: replace operation does not replace running config
CSCwe18076	MFIB cannot process update from MRIB, multicast OLE programming fails
CSCwd23339	L3vpn InterAS_B:both ipv4 and ipv6 rib crashed in GRID library
CSCwd25769	BGP Track going down after RP switchover
CSCwd69487	Netconf : Optics Info is missing from netconf response when mxponder mode is configured on the card
CSCwd72961	IS-IS local LSP not regenerated regardless of triggers
CSCwc93582	772-6i: Performance Measurement Counters reset after Image ISSU on N560-4-RSP4E
CSCwd36654	The http_client process may restart unexpectedly in IOS XR
CSCwd13509	Allow passing a vrf name to ipv6 addr tokens so that gethostbyname_vrf can use non-default vrf
CSCwd35394	"BGP Address family state" of BGP track changes to UNKNOWN on standby Reload
CSCwa34590	BTV: Bgp session stuck in CLOSING
CSCwd57588	781:ZTP:Script getting failed during 732 to 781 SU
CSCwd47913	791 13I PLDT: LSD HA outsync after commit replace trigger
CSCwi74888	Consistent IPv4-ma Process Crash in Longevity Test
CSCwi17183	ASR9K working as InterAS-B ASBR fails to program locally allocated BGP label after RSP failover
CSCwb46190	ENS detected multiple publishers for proc name:l2fib_mgr after image upgrade/router reload
CSCwc30799	The optics_ma process in IOS XR may experience a memory leak
CSCwd25819	FLOWSPEC-3-MGR_CLASS_CREATE Failed due to 'Connection timed out'
CSCwd30936	Process "ema_server_sdr" crashed after downgrading to 781 from 791
CSCwf12420	scp of files is not complete / file transfer stuck resulting in sessions getting stalled
CSCwc27155	bundle member flapping , when shut/noshut on ce is performed .
CSCwc79288	IPv4_ma process crashed with subscriber churn
CSCwc11910	SR-LDP: LSD forwarding entry not deleted after RIB changes from BGP to OSPF then changes back to BGP
CSCwc63922	SVS 862 NCS4K : LLDP neigbhors are not discovered after SU/FPD upgrade
CSCwc98283	fib mgr crash seen during script runs with triggers
CSCwd42125	duplicate extension in the cert error due to 2 undef extensions
CSCwd45006	PWHE interface down after RPFO, Not provisioned reason - AC I/F not ready

Bug ID	Headline
CSCwd55746	mpls ipv4 fragments with df bit set is not being accounted in the traffic counters
CSCwd60019	791 WASP NSR stuck fib_mgr CEF NSR not ready
CSCwi38355	Traceroute list core IP with egress bundle interface hosted on LC different from ingress LC
CSCwi69231	NETCONF Merge RPC should not be rejected if relevant config already on XR
CSCwh85544	EMSD process crash while executing get request
CSCwi02725	EVPN MAC move may count as multiple moves and achieve Frozen state too early
CSCwi27166	Show lldp neighbors not displaying any interfaces even when they are in Up state
CSCwi27325	devc-conaux-con proc crash when we do ESC+ ksh on standby node
CSCwi39542	Cisco IOS XR Software Segment Routing for IS-IS Denial of Service Vulnerability
CSCwi46127	8202 | 24.2.1.05I | qos_ma crash on 8202 in steady state
CSCwh92773	PLE-NID: Protection switch to backup taking longer casuing converrgence issues.
CSCwi00341	ISIS crashed in show isis protocol if dynamic hostname had been disabled
CSCwi75155	emsd ltrace memory leak during longevity
CSCwi77575	CPU stuck condition caused shared memory exhaustion on a linecard
CSCwi16948	kc_srvr hit Rlimit with telemetry streaming running in background
CSCwi27327	ISSU load abort for client ISIS because of MPLS TE named tunnels
CSCwi37658	"Not Programmed in H/W" error in ACL PD output when configured using commit best-effort or copy
CSCwi23456	Evaluation of all for HTTP/2 Rapid Reset Attack vulnerability
CSCwi60842	Remove incorrect limit for PCEP message size
CSCwi68719	Flex-algo path-computation expects SID to be advertised on ABR on incorrect LS-node
CSCwh91422	PWHE V6 objects stuck in cef ipv6 retry-db after configuration removed
CSCwh95672	xr_cli and xr_cli_acc should support describe on all platforms
CSCwi02129	ospf crash on accessing idb stale pointer information upon madj interface creation/deletion
CSCwi22213	Implement learn_cnt update from L2FIB to identify the real MAC learn event.
CSCwi55336	OpenConfig management agent crash when reading OpenConfig snapshot on the standby RP
CSCwi61242	BGP process may crash on executing OC-path afi-safis/afi-safi sensor group> with subgrp update
CSCwh83840	RIP: rip process gets blocked while unconfiguring router rip
CSCwi08034	[7.5.2]: Summary LSA in area 0 is not flushed when source area is deleted
CSCwi21191	24.1.1 WASP NSR not ready for bgp/mpls %IP-TCP_NSR-3-OUT_OF_SYNC:NSR
CSCwi51259	Default operation replace on subinterface multiple times results in error via um-interface model
CSCwi52953	ARP entry age is not refreshed on all LC cards

Bug ID	Headline
CSCwi57269	EVPN host mobility: Premature duplicate detection seen after 4 host moves - l2vpn issue
CSCwi61895	OSPF External Route Tag is not updated to RIB
CSCwh89508	interface-xr/interface is not Getting Added After TCP Flap
CSCwh94279	Linecard fib_mgr process encountered exception during router reload
CSCwh97181	GR: shutdown restarting speaker from local should delete stale routes immediately
CSCwi87689	Optimization for Scoped LDP Message Handling
CSCwf53029	fib_mgr process crashes on BNG node when BNG subscriber interface flaps
CSCwh11782	EVPN mobility : Host with varying mac address on same site never gets frozen.
CSCwh56407	OSFPv3 Failed to form neighbourship if we configure router ID after adding the loopback address
CSCwf75530	seeing continuous processes blocked on dhcpd_iox_event_loop_sel:1558
CSCwf81578	7.11.1 SFD - netconf process crash from me_response_destroy
CSCwf81533	The emsd process may restart unexpectedly when using telemetry with cert-authentication and mTLS
CSCwf90622	[8000_lpts_firex_apcommit_sanity::xr-dev]-'show users' output is empty
CSCwf92151	ATT Label Churn: bgp keep crashing after process restart bgp
CSCwh10907	default-originate route-policy: after route-refresh, route-policy changes are not applied.
CSCwh35363	IPv6 Summary Route to Null0 is missing on IS-IS Level1/Level-2 Router
CSCwh65087	stale mac-ip in l2rib post duplicate host detection
CSCwh73049	BGP ECMP underlay for SRv6 does not work
CSCwf47310	BGP VRF Dynamic Route Leaking fail to leak route
CSCwf57418	NCS540l: 7.5.1 Multiple Netconf-tty process crash with Verizon scale configuration-2
CSCwf67077	when an interface is shut/no shut ipv6 global address is not advertise in prefix LSA
CSCwh59195	8808 | oc_transceiver_telemetry crash @ sysdb_lib_lwm_conn_connect
CSCwh14667	Specified router-id is not picked rather default router-id is picked
CSCwh21540	OSPF: OSPF error trace buffer is filled with below message
CSCwh23445	client 'mibd_route' failed to pickup sysdb notification event within 260 seconds
CSCwh28702	group membership of processes (using group_lookup()) lost post process restart of gsp process
CSCwh51129	core interface flap causes fib_mgr crash; leads to continous fib_mgr traceback
CSCwf65818	MAC limit count out of sync in show l2vn fwd bridge detail
CSCwf75956	ifmgr process crash post abruptive RSP switchover
CSCwf77915	High memory usage for IPv6_nd
CSCwh18216	IPv6 traffic drop around 14s during ISSU

Bug ID	Headline
CSCwh65198	traffic loss on forward-class ZERO when tunnel with a different class is deleted
CSCwh71874	Ipv4-mpls detected inconsistency with 1 entries for scan-id
CSCwe72860	Do not reset all BGP neighbors when tcp to bgp ctrl queue is full
CSCwd66583	SFTP crash on configuring it in configuration commit auto-save
CSCwf01956	7.10.1.X | BGPv6, OSPFv6 traffic impacted and routes withdrawn post ipv6_rib process restart
CSCwf54962	Flex-algo ASLA missing in lslib topology after configuration change
CSCwf83090	Cisco IOS XR Software DHCP Version 4 Server Denial of Service Vulnerability
CSCwh11791	EVPN Host Mobility Issues
CSCwh15910	1s delay for gNMI set requests on dual RP systems
CSCwh91934	Glandon : XTC to RIB - ROUTING-RIB-3-ERR_DELETE : Path delete failure for Table
CSCwf52038	google-cd17-emsd crash ocni_ldp_target_hello_accept_oc_to_x on replace of network instance
CSCwh62118	B4: GNMI Interface container replace call is failing on xr-dev, it works on CD20 image
CSCwh79153	fib_mgr crash after peer node reload
CSCwf55338	L2FIB does not make-before-break on changing IP adjacency MAC
CSCwf99796	NDES SCEP Fails Following Upgrade to IOS-XR 7.9.x
CSCwh15442	[SVI-JIO-EFT-SRG] ipv4_ma crash found post 2 days of subscriber churn
CSCwh05795	755.5i AsyncSSH issue with multiplexing
CSCwh65918	[cnBNG] CLI behaviour difference with cisco-support
CSCwf52947	ASR9K / BNG IPOE PWHE: reachability to a subscriber on main interface is broken
CSCwf76402	Authorization blocked for netconf - change of task-id in schema
CSCwh43335	Cisco-IOS-XR-ping-act repeat-count 64 limitation
CSCvy60487	732-24I [NCS1004]- After commit-replace using GRPC, same config is removed and applied again
CSCwa08255	opt_terminal_device crash seen on Bh card manager restart and SU
CSCwc19881	bgp crash due to rlimit after ISSU upgrade in scale setup
CSCwd16200	Optics_ma memory leak during Longivity
CSCwd63200	isis memory leak
CSCwe35438	EMSD crash is seen when assigning interfaces to non-default vrf
CSCwe47294	Entire BGP configuration lost after XR reload
CSCwe53800	gNOI ping json error to unreachable IPs
CSCwe55697	SEC-IDL-TMOUT-2 violation on Console connection. User not disconnected after timeout
CSCwe55332	MPLS-TE Convergence Degradation in post 653 releases

Bug ID	Headline
CSCwf11720	Cisco IOS XR Software Authenticated Secure Copy Protocol Denial of Service Vulnerability
CSCwf30031	gNMI sub updates not seen after initial sync_response for IS-IS adjacency path on 8202
CSCwf31802	Improperly configured ISIS interface stuck at CLNS down state after ifmgr restart
CSCwf36933	PLE-NID: ODU/ODU2e/Ethernet/OC/STM/FC: PRBS: PM: History is not populating PM PRBS history data.
CSCwe38783	EMSd crash due to failure to LWM handle exhaustion
CSCwe66111	DHCPv6 Proxy Subscriber Routes Next-Hop is NULLIFHNDL After Reload
CSCwe86009	Full SPF is triggered when more that 10 prefixes are added to, or removed from the LSP
CSCwf24817	Fib_mgr process fails to create FRR state leads to fib_mgr traceback and crash on RSP after bootup
CSCwe85446	tcp process crash at 'tcp_datagram_internal' after few peer node reloads
CSCwe89493	Valid DHCPv6 Sessions are being sent NO-BINDING error code
CSCwe30970	show cef fast-reroute-db not listing all FRR objects
CSCwf06053	RIP text authentication failing with key-string length of 16
CSCwf08347	7.10.14I: 6vpe:ping failed if packet size is less than l2 mtu and bigger then mpls mtu
CSCwf29764	Telemetry not working after peer triggers
CSCwf37357	Memory Leak Detected by LSAN (Parser)
CSCwe24820	[782-SIT-MBH] Multiple ISIS process crashed when doing RPFO
CSCwe78084	OSPF FAPM interops issue in EANTC with Nokia and Juniper
CSCwf30856	Config for local-labeled-route safi-unicast disable not working
CSCwe36610	SRv6 Flex-algo route not installed in RIB after is-type level change
CSCwe61700	mibd_interface continous crash after image upgrade/router reload/FC reload/RPFO
CSCwd72406	SF-MINI-BIT mpls_lsd NSR is not ready post redundancy switch over
CSCwf31439	EVPN Inter-AS Option-B: ASBR interface is not mpls enabled after reloading the ASBR router
CSCwf38148	mpls te topo is empty after process restart te_control loc all
CSCwe37042	07.10.1: B4: Customer issue: TACACS crash while running FP tcs
CSCwe37103	SNMP process crashes during steady state
CSCwe66065	ISIS process crashed when network diameter is greater than 1067
CSCwe78378	HA-HA_WD-2-DISK_CRIT : A monitored device /misc/config/config/lr ((null)) is above 99% utilization
CSCwe93323	cef drop adjacency in RP for valid route while correct programming in LC
CSCwe36330	ISIS installs a bogus uloop-path for SRv6 when uloop is not necessary

Bug ID	Headline
CSCwe37180	g8032 convergence provides incorrect sequence of events as bridge-port scale increases
CSCwe62677	dhcpv6d contains bindings with 0x0 sub-label and lease expired
CSCwe66883	[7.8.2] XR-telemetry: Sensor paths with invalid filter value should not trigger SysDB EDM queries
CSCwe71206	remote ping failing due to cef drop adjacency
CSCwe81310	Track Reachability is Down even the ping is successful and comes Up after unconfig and config
CSCwi23971	EVPN host mobility: Premature duplicate detection seen after 4 host moves
CSCwi61481	Unable to learn the first received ARP when using Dynamic-Dynamic with EVPN
CSCwi62813	Netconf memory leak caused by polling interface stats with AAA accounting
CSCwi68481	EVPN-VPWS SRv6: Keep down ACs bound for better Port-Active convergence
CSCwi72972	Getting error & No response for sysdb path(bgp/neighbor) using GNMI dial-in subscription
CSCwi21898	Discover-in-bound on an interface whose profile no more exisits results in double-free
CSCwi37052	xipc drops with 2k vrrp groups.
CSCwi61409	LSPs don't flood to an IS-IS neighbor when there are adjacencies in both Up and Init state
CSCwi61603	No LFA/TI-LFA Backup for Prefixes with ECMP Path as Outgoing Interface
CSCwi65192	random withdraw and advertise due to high scale of peer and filter group
CSCwi91992	Obj=FIB_DATA_TYPE_LOADINFO | 'FIB' detected the 'warning' condition 'Unsupported operation' | uloop
CSCwi92608	SNMP Timeout when 1.3.6.1.4.1.9.9.166 "ciscoCBQosMIB" is polled
CSCwj61100	OSPF: ospf process exception and restart after removing ospf configs
CSCwj54863	8K | emsd crash @ mdt_sub_filter_copy | Segmentation Fault
CSCwj48247	L3-Sync: L2FIB rejects MACIPs because L2RIB is not doing MAC mobility (not updating the sequence)
CSCwj41510	Incorrect ARP and MAC-IP entries after remote-to-local move
CSCwj35050	MLACP split-brained with TI-LFA and bundle between nodes
CSCwj01069	ipsla_responder and ipsla_sa process crash in Glandon
CSCwj06108	CDP neighors are not showing when sat sub-interface has encapsulation untagged
CSCwj00626	Indefinitely stuck DHCPv6 stale bindings lead to failure in new session bring up
CSCwj21448	netconf_agent_tty process is respawned :Aborting process due to buffer overflow in strncat
CSCwi93459	Update the collapse logic to fix non-collapsible three level recursion
CSCwj07322	LC reload with npu_drvr crash
CSCwj10217	BGP-LS sessions are getting droped and BGP-LS getting crashed

Bug ID	Headline
CSCwj29251	memory being held after running commands from run shell
CSCwj00849	SRv6 uA SID missing in forwatding after modifying the ISIS IS-type on the node
CSCwi96177	Configuration replace with pattern adds an "exit" statement in nested configuration and commit fails
CSCwj10629	Preventive fix to avoid dictionary avl tree getting looped on standby RP
CSCwf25891	PLE-NID/MPA: PRBS: ODU2/e: Source-Sink & Source-Sink: PRBS status is "Not Applicable" on both sides.

Get Information about Bugs

Use the Bug Search tool (BST) to get the latest information about Cisco 8000 series router bugs. BST allows partners and customers to search for software bugs based on product, release, and keyword, and it aggregates key data such as bug details, product, and version.

Procedure

Step 1 Log into the Bug Search Tool.

Step 2 To list all bugs for this version,

a) In the Product drop down box, select Series/Model.
b) In the Example: text box, enter Cisco 8000 Series Router
c) In the Release drop down box, select Affecting Releases and in the Example: text box, enter the release number; for example, 24.2.21
d) Click Search.

Determine Software Version

Log in to the router and enter the **show version** command:

```
Router# show version
Cisco IOS XR Software, Version 24.2.21 LNT
Copyright (c) 2013-2025 by Cisco Systems, Inc.

Build Information:
 Built By     : cisco
 Built On     : Thu May 01 00:24:28 UTC 2025
 Build Host   : iox-ucs-037
 Workspace    : /auto/srcarchive10/prod/24.2.21/8000/ws/
 Version      : 24.2.21
 Label        : 24.2.21

cisco 8000 (Intel(R) Xeon(R) CPU D-1573N @ 2.70GHz)
cisco 8808 (Intel(R) Xeon(R) CPU D-1573N @ 2.70GHz) processor with 64GB of memory
R6-SFD-PE2 uptime is 2 hours, 40 minutes
Cisco 8808 8-slot Chassis
```

Determine Firmware Support

Log in to the router and enter **show fpd package** command:

Cisco 8200 Series Router

```
Router# show fpd package
================================ ============================================
                                        Field Programmable Device Package
                                 ============================================
                                           Req      SW       Min Req   Min Req
Card Type            FPD Description       Reload   Ver      SW Ver    Board Ver
================== ========================== ====== ======= ======== =========
--------------------------------------------------------------------------------
8201                 Bios                    YES     1.29      1.29      0.0
                     BiosGolden              YES     1.29      1.15      0.0
                     IoFpga                  YES     1.11      1.11      0.1
                     IoFpgaGolden            YES     1.11      0.48      0.1
                     SsdIntelS3520           YES     1.21      1.21      0.0
                     SsdIntelS4510           YES    11.32     11.32      0.0
                     SsdMicron5100           YES     7.01      7.01      0.0
                     SsdMicron5300           YES     0.01      0.01      0.0
                     x86Fpga                 YES     1.06      1.06      0.0
                     x86FpgaGolden           YES     1.06      0.48      0.0
                     x86TamFw                YES     5.13      5.13      0.0
                     x86TamFwGolden          YES     5.13      5.05      0.0
--------------------------------------------------------------------------------
8201-ON              Bios                    YES     1.208     1.208     0.0
                     BiosGolden              YES     1.208     1.207     0.0
                     IoFpga                  YES     1.11      1.11      0.1
                     IoFpgaGolden            YES     1.11      0.48      0.1
                     SsdIntelS3520           YES     1.21      1.21      0.0
                     SsdIntelS4510           YES    11.32     11.32      0.0
                     SsdMicron5100           YES     7.01      7.01      0.0
                     SsdMicron5300           YES     0.01      0.01      0.0
                     x86Fpga                 YES     1.06      1.06      0.0
                     x86FpgaGolden           YES     1.06      0.48      0.0
                     x86TamFw                YES     5.13      5.13      0.0
                     x86TamFwGolden          YES     5.13      5.05      0.0
--------------------------------------------------------------------------------
8201-SYS             Bios                    YES     1.29      1.29      0.0
                     BiosGolden              YES     1.29      1.15      0.0
                     IoFpga                  YES     1.11      1.11      0.1
                     IoFpgaGolden            YES     1.11      0.48      0.1
                     SsdIntelS3520           YES     1.21      1.21      0.0
                     SsdIntelS4510           YES    11.32     11.32      0.0
                     SsdMicron5100           YES     7.01      7.01      0.0
                     SsdMicron5300           YES     0.01      0.01      0.0
                     x86Fpga                 YES     1.06      1.06      0.0
                     x86FpgaGolden           YES     1.06      0.48      0.0
                     x86TamFw                YES     5.13      5.13      0.0
                     x86TamFwGolden          YES     5.13      5.05      0.0
--------------------------------------------------------------------------------
8201-SYS-ON          Bios                    YES     1.208     1.208     0.0
                     BiosGolden              YES     1.208     1.207     0.0
                     IoFpga                  YES     1.11      1.11      0.1
                     IoFpgaGolden            YES     1.11      0.48      0.1
                     SsdIntelS3520           YES     1.21      1.21      0.0
                     SsdIntelS4510           YES    11.32     11.32      0.0
                     SsdMicron5100           YES     7.01      7.01      0.0
                     SsdMicron5300           YES     0.01      0.01      0.0
```

```
                    x86Fpga                   YES     1.06      1.06      0.0
                    x86FpgaGolden             YES     1.06      0.48      0.0
                    x86TamFw                  YES     5.13      5.13      0.0
                    x86TamFwGolden            YES     5.13      5.05      0.0
--------------------------------------------------------------------------------
PSU1.4KW-ACPE       DT-PrimMCU                NO      3.01      3.01      0.0
                    DT-SecMCU                 NO      2.02      2.02      0.0
                    QC-PrimMCU                NO      2.00      2.00      0.0
                    QC-SecMCU                 NO      2.00      2.00      0.0
--------------------------------------------------------------------------------
PSU1.4KW-ACPI       DT-PrimMCU                NO      3.01      3.01      0.0
                    DT-SecMCU                 NO      2.02      2.02      0.0
                    QC-PrimMCU                NO      2.00      2.00      0.0
                    QC-SecMCU                 NO      2.00      2.00      0.0
--------------------------------------------------------------------------------
PSU2KW-ACPE         PO-PrimMCU                NO      1.03      1.03      0.0
                    PO-SecMCU                 NO      1.06      1.06      0.0
                    QC-PrimMCU                NO      1.01      1.01      0.0
                    QC-SecMCU                 NO      1.04      1.04      0.0
--------------------------------------------------------------------------------
PSU2KW-ACPI         PO-PrimMCU                NO      1.03      1.03      0.0
                    PO-SecMCU                 NO      1.08      1.08      0.0
                    QC-PrimMCU                NO      2.00      2.00      0.0
                    QC-SecMCU                 NO      4.00      4.00      0.0
--------------------------------------------------------------------------------
PSU2KW-DCPE         PO-PrimMCU                NO      1.07      1.07      0.0
--------------------------------------------------------------------------------
PSU2KW-DCPI         PO-PrimMCU                NO      1.07      1.07      0.0
                    QC-PrimMCU                NO      2.00      1.00      0.0
                    QC-SecMCU                 NO      2.00      1.00      0.0
--------------------------------------------------------------------------------
PSU2KW-HVPI         PO-PrimMCU                NO      1.09      1.09      0.0
                    PO-SecMCU                 NO      1.10      1.10      0.0
```

Cisco 8600 Series Router

```
Router# show fpd package
================================ ================================================
                                        Field Programmable Device Package
                                 ================================================
                                           Req     SW      Min Req   Min Req
Card Type           FPD Description        Reload  Ver     SW Ver  Board Ver
================== ========================= ====== ======= ======== =========
--------------------------------------------------------------------------------
86-3.2KW-AC         EM-LogicMCU               NO      0.10      0.10      0.0
                    EM-PrimMCU                NO      0.02      0.02      0.0
                    EM-SecMCU                 NO      0.02      0.02      0.0
--------------------------------------------------------------------------------
86-3.2KW-DC         EM-LogicMCU               NO      0.11      0.11      0.0
                    EM-PrimMCU                NO      0.04      0.04      0.0
                    EM-SecMCU                 NO      0.04      0.04      0.0
--------------------------------------------------------------------------------
86-MPA-14H2FH-M     IoFpga                    YES     1.05      1.05      0.1
                    IoFpgaGolden              NO      1.05      1.00      0.1
--------------------------------------------------------------------------------
86-MPA-24Z-M        IoFpga                    YES     1.05      1.05      0.1
                    IoFpgaGolden              NO      1.05      1.00      0.1
--------------------------------------------------------------------------------
86-MPA-4FH-M        IoFpga                    YES     1.05      1.05      0.1
                    IoFpgaGolden              NO      1.05      1.00      0.1
--------------------------------------------------------------------------------
8608-FS[FB]         IoFpga                    NO      1.11      1.11      0.2
                    IoFpgaGolden              NO      1.11      1.00      0.2
--------------------------------------------------------------------------------
```

```
8608-RP              Bios                      YES     1.09      1.09      0.0
                     BiosGolden                YES     1.09      1.01      0.0
                     IoFpga                    YES     1.10      1.10      0.0
                     IoFpgaGolden              NO      1.10      1.01      0.0
                     SsdMicron7300M2           YES     2.60      2.60      0.0
                     SsdMicron7450M2           YES    11.00     11.00      0.0
                     SsdSRMP8N2                YES    14.38     14.38      0.0
                     x86Fpga                   YES     1.07      1.07      0.0
                     x86FpgaGolden             YES     1.07      1.07      0.0
                     x86TamFw                  YES     7.12      7.12      0.0
                     x86TamFwGolden            YES     7.12      7.12      0.0
-------------------------------------------------------------------------------
8608-SC0-128         IoFpga                    YES     1.01      1.01      0.0
                     IoFpgaGolden              YES     1.01      1.01      0.0
-------------------------------------------------------------------------------
8608-SC0-128[FB]     IoFpga                    NO      1.11      1.11      0.2
                     IoFpgaGolden              NO      1.11      1.00      0.2
-------------------------------------------------------------------------------
PSU4.3KW-HVPI        DT-LogicMCU               NO      2.05      2.05      0.0
                     DT-PrimMCU                NO      1.08      1.08      0.0
                     DT-SecMCU                 NO      1.08      1.08      0.0
```

Cisco 8800 Series Router

```
Router# show fpd package
================================ ================================================
                                        Field Programmable Device Package
                                 ================================================
                                           Req      SW       Min Req   Min Req
Card Type            FPD Description       Reload   Ver      SW Ver    Board Ver
==================== ===================== ======= ======== ========= =========
-------------------------------------------------------------------------------
88-LC0-34H14FH       Bios                  YES     1.15      1.15      0.0
                     BiosGolden            YES     1.15      0.13      0.0
                     EthSwitch             YES     1.05      1.05      0.0
                     EthSwitchGolden       YES     1.05      0.07      0.0
                     IoFpga                YES     1.09      1.09      0.1
                     IoFpgaGolden          YES     1.09      1.01      0.1
                     SsdIntelS3520         YES     1.21      1.21      0.0
                     SsdIntelS4510         YES    11.32     11.32      0.0
                     SsdMicron5100         YES     7.01      7.01      0.0
                     SsdMicron5300         YES     0.01      0.01      0.0
                     x86Fpga               YES     0.97      0.97      0.1
                     x86FpgaGolden         YES     0.97      0.78      0.1
                     x86TamFw              YES     6.18      6.18      0.1
                     x86TamFwGolden        YES     6.18      6.10      0.1
-------------------------------------------------------------------------------
88-LC0-34H14FH-O     Bios                  YES     0.241     0.241     0.0
                     BiosGolden            YES     0.241     0.218     0.0
                     EthSwitch             YES     1.05      1.05      0.0
                     EthSwitchGolden       YES     1.05      0.07      0.0
                     IoFpga                YES     1.09      1.09      0.1
                     IoFpgaGolden          YES     1.09      1.01      0.1
                     SsdIntelS3520         YES     1.21      1.21      0.0
                     SsdIntelS4510         YES    11.32     11.32      0.0
                     SsdMicron5100         YES     7.01      7.01      0.0
                     SsdMicron5300         YES     0.01      0.01      0.0
                     x86Fpga               YES     0.97      0.97      0.1
                     x86FpgaGolden         YES     0.97      0.78      0.1
                     x86TamFw              YES     6.18      6.18      0.1
                     x86TamFwGolden        YES     6.18      6.10      0.1
-------------------------------------------------------------------------------
88-LC0-36FH          Bios                  YES     1.15      1.15      0.0
```

	BiosGolden	YES	1.15	0.13	0.0
	EthSwitch	YES	1.05	1.05	0.0
	EthSwitchGolden	YES	1.05	0.07	0.0
	IoFpga	YES	1.19	1.19	0.1
	IoFpgaGolden	YES	1.19	1.00	0.1
	SsdIntelS3520	YES	1.21	1.21	0.0
	SsdIntelS4510	YES	11.32	11.32	0.0
	SsdMicron5100	YES	7.01	7.01	0.0
	SsdMicron5300	YES	0.01	0.01	0.0
	x86Fpga	YES	1.48	1.48	0.1
	x86FpgaGolden	YES	1.48	1.04	0.1
	x86TamFw	YES	6.18	6.18	0.1
	x86TamFwGolden	YES	6.18	6.05	0.1
88-LC0-36FH-M	Bios	YES	1.15	1.15	0.0
	BiosGolden	YES	1.15	0.13	0.0
	EthSwitch	YES	1.05	1.05	0.0
	EthSwitchGolden	YES	1.05	0.07	0.0
	IoFpga	YES	1.19	1.19	0.1
	IoFpgaGolden	YES	1.19	1.00	0.1
	SsdIntelS3520	YES	1.21	1.21	0.0
	SsdIntelS4510	YES	11.32	11.32	0.0
	SsdMicron5100	YES	7.01	7.01	0.0
	SsdMicron5300	YES	0.01	0.01	0.0
	x86Fpga	YES	1.48	1.48	0.1
	x86FpgaGolden	YES	1.48	1.04	0.1
	x86TamFw	YES	6.18	6.18	0.1
	x86TamFwGolden	YES	6.18	6.05	0.1
88-LC0-36FH-M-2	Bios	YES	1.15	1.15	0.0
	BiosGolden	YES	1.15	0.13	0.0
	EthSwitch	YES	1.05	1.05	0.0
	EthSwitchGolden	YES	1.05	0.07	0.0
	IoFpga	YES	1.19	1.19	0.1
	IoFpgaGolden	YES	1.19	1.00	0.1
	SsdIntelS3520	YES	1.21	1.21	0.0
	SsdIntelS4510	YES	11.32	11.32	0.0
	SsdMicron5100	YES	7.01	7.01	0.0
	SsdMicron5300	YES	0.01	0.01	0.0
	x86Fpga	YES	1.48	1.48	0.1
	x86FpgaGolden	YES	1.48	1.04	0.1
	x86TamFw	YES	6.18	6.18	0.1
	x86TamFwGolden	YES	6.18	6.05	0.1
88-LC0-36FH-MO	Bios	YES	0.241	0.241	0.0
	BiosGolden	YES	0.241	0.218	0.0
	EthSwitch	YES	1.05	1.05	0.0
	EthSwitchGolden	YES	1.05	0.07	0.0
	IoFpga	YES	1.19	1.19	0.1
	IoFpgaGolden	YES	1.19	1.00	0.1
	SsdIntelS3520	YES	1.21	1.21	0.0
	SsdIntelS4510	YES	11.32	11.32	0.0
	SsdMicron5100	YES	7.01	7.01	0.0
	SsdMicron5300	YES	0.01	0.01	0.0
	x86Fpga	YES	1.48	1.48	0.1
	x86FpgaGolden	YES	1.48	1.04	0.1
	x86TamFw	YES	6.18	6.18	0.1
	x86TamFwGolden	YES	6.18	6.05	0.1
88-LC0-36FH-O	Bios	YES	0.241	0.241	0.0
	BiosGolden	YES	0.241	0.218	0.0
	EthSwitch	YES	1.05	1.05	0.0
	EthSwitchGolden	YES	1.05	0.07	0.0
	IoFpga	YES	1.19	1.19	0.1

	IoFpgaGolden	YES	1.19	1.00	0.1
	SsdIntelS3520	YES	1.21	1.21	0.0
	SsdIntelS4510	YES	11.32	11.32	0.0
	SsdMicron5100	YES	7.01	7.01	0.0
	SsdMicron5300	YES	0.01	0.01	0.0
	x86Fpga	YES	1.48	1.48	0.1
	x86FpgaGolden	YES	1.48	1.04	0.1
	x86TamFw	YES	6.18	6.18	0.1
	x86TamFwGolden	YES	6.18	6.05	0.1
88-LC1-36EH	Bios	YES	1.09	1.09	0.41
	BiosGolden	YES	1.09	1.01	0.41
	EthSwitch	YES	1.05	1.05	0.0
	EthSwitchGolden	YES	1.05	0.07	0.0
	IoFpga	YES	1.05	1.05	0.0
	IoFpgaGolden	YES	1.05	1.00	0.0
	SsdMicron7300M2	YES	2.60	2.60	0.0
	SsdMicron7450M2	YES	11.00	11.00	0.0
	SsdSRMP8N2	YES	14.38	14.38	0.0
	x86Fpga	YES	1.04	1.04	0.31
	x86FpgaGolden	YES	1.04	1.00	0.31
	x86TamFw	YES	7.16	7.16	0.31
	x86TamFwGolden	YES	7.16	7.13	0.31
8800-LC-36FH	Bios	YES	1.29	1.29	0.0
	BiosGolden	YES	1.29	1.15	0.0
	EthSwitch	YES	1.05	1.05	0.0
	EthSwitchGolden	YES	1.05	0.07	0.0
	IoFpga	YES	1.39	1.39	0.0
	IoFpgaGolden	YES	1.39	0.08	0.0
	SsdIntelS3520	YES	1.21	1.21	0.0
	SsdIntelS4510	YES	11.32	11.32	0.0
	SsdMicron5100	YES	7.01	7.01	0.0
	SsdMicron5300	YES	0.01	0.01	0.0
	x86Fpga	YES	1.56	1.56	0.0
	x86FpgaGolden	YES	1.56	0.33	0.0
	x86TamFw	YES	5.17	5.17	0.0
	x86TamFwGolden	YES	5.17	5.05	0.0
8800-LC-36FH-O	Bios	YES	1.208	1.208	0.0
	BiosGolden	YES	1.208	1.207	0.0
	EthSwitch	YES	1.05	1.05	0.0
	EthSwitchGolden	YES	1.05	0.07	0.0
	IoFpga	YES	1.39	1.39	0.0
	IoFpgaGolden	YES	1.39	0.08	0.0
	SsdIntelS3520	YES	1.21	1.21	0.0
	SsdIntelS4510	YES	11.32	11.32	0.0
	SsdMicron5100	YES	7.01	7.01	0.0
	SsdMicron5300	YES	0.01	0.01	0.0
	x86Fpga	YES	1.56	1.56	0.0
	x86FpgaGolden	YES	1.56	0.33	0.0
	x86TamFw	YES	5.17	5.17	0.0
	x86TamFwGolden	YES	5.17	5.05	0.0
8800-LC-48H	Bios	YES	1.29	1.29	0.0
	BiosGolden	YES	1.29	1.15	0.0
	EthSwitch	YES	1.05	1.05	0.0
	EthSwitchGolden	YES	1.05	0.07	0.0
	IoFpga	YES	1.39	1.39	0.0
	IoFpgaGolden	YES	1.39	0.08	0.0
	SsdIntelS3520	YES	1.21	1.21	0.0
	SsdIntelS4510	YES	11.32	11.32	0.0
	SsdMicron5100	YES	7.01	7.01	0.0
	SsdMicron5300	YES	0.01	0.01	0.0

```
                    x86Fpga                 YES     1.56      1.56      0.0
                    x86FpgaGolden           YES     1.56      0.33      0.0
                    x86TamFw                YES     5.17      5.17      0.0
                    x86TamFwGolden          YES     5.17      5.05      0.0
--------------------------------------------------------------------------------
8800-LC-48H-O       Bios                    YES     1.208     1.208     0.0
                    BiosGolden              YES     1.208     1.207     0.0
                    EthSwitch               YES     1.05      1.05      0.0
                    EthSwitchGolden         YES     1.05      0.07      0.0
                    IoFpga                  YES     1.39      1.39      0.0
                    IoFpgaGolden            YES     1.39      0.08      0.0
                    SsdIntelS3520           YES     1.21      1.21      0.0
                    SsdIntelS4510           YES    11.32     11.32      0.0
                    SsdMicron5100           YES     7.01      7.01      0.0
                    SsdMicron5300           YES     0.01      0.01      0.0
                    x86Fpga                 YES     1.56      1.56      0.0
                    x86FpgaGolden           YES     1.56      0.33      0.0
                    x86TamFw                YES     5.17      5.17      0.0
                    x86TamFwGolden          YES     5.17      5.05      0.0
--------------------------------------------------------------------------------
8800-RP             Bios                    YES     1.29      1.29      0.0
                    BiosGolden              YES     1.29      1.15      0.0
                    EthSwitch               YES     1.03      1.03      0.0
                    EthSwitchGolden         YES     1.03      0.07      0.0
                    SsdIntelS3520           YES     1.21      1.21      0.0
                    SsdIntelS4510           YES    11.32     11.32      0.0
                    SsdMicron5100           YES     7.01      7.01      0.0
                    SsdMicron5300           YES     0.01      0.01      0.0
                    TimingFpga              YES     1.02      1.02      0.0
                    TimingFpgaGolden        YES     1.02      0.11      0.0
                    x86Fpga                 YES     1.38      1.38      0.0
                    x86FpgaGolden           YES     1.38      0.24      0.0
                    x86TamFw                YES     5.17      5.17      0.0
                    x86TamFwGolden          YES     5.17      5.05      0.0
--------------------------------------------------------------------------------
8800-RP-O           Bios                    YES     1.208     1.208     0.0
                    BiosGolden              YES     1.208     1.207     0.0
                    EthSwitch               YES     1.03      1.03      0.0
                    EthSwitchGolden         YES     1.03      0.07      0.0
                    SsdIntelS3520           YES     1.21      1.21      0.0
                    SsdIntelS4510           YES    11.32     11.32      0.0
                    SsdMicron5100           YES     7.01      7.01      0.0
                    SsdMicron5300           YES     0.01      0.01      0.0
                    TimingFpga              YES     1.02      1.02      0.0
                    TimingFpgaGolden        YES     1.02      0.11      0.0
                    x86Fpga                 YES     1.38      1.38      0.0
                    x86FpgaGolden           YES     1.38      0.24      0.0
                    x86TamFw                YES     5.17      5.17      0.0
                    x86TamFwGolden          YES     5.17      5.05      0.0
--------------------------------------------------------------------------------
8800-RP2            Bios                    YES     1.09      1.09      0.3
                    BiosGolden              YES     1.09      1.07      0.3
                    EthSwitch               YES     1.03      1.03      0.0
                    EthSwitchGolden         YES     1.03      0.07      0.0
                    PcieSwitch              YES   120.14    120.14      0.7
                    SsdMicron7300M2         YES     2.60      2.60      0.0
                    SsdMicron7450M2         YES    11.00     11.00      0.0
                    SsdSRMP8N2              YES    14.38     14.38      0.0
                    TimingFpga              YES     1.01      1.01      0.0
                    TimingFpgaGolden        YES     1.01      1.00      0.0
                    x86Fpga                 YES     1.14      1.14      0.6
                    x86FpgaGolden           YES     1.14      1.02      0.6
                    x86TamFw                YES     7.18      7.18      0.6
                    x86TamFwGolden          YES     7.18      7.13      0.6
```

8800-RP2-O	Bios	YES	1.00	1.00	0.3
	BiosGolden	YES	1.00	1.00	0.3
	EthSwitch	YES	1.03	1.03	0.0
	EthSwitchGolden	YES	1.03	0.07	0.0
	SsdIntelS3520	YES	1.21	1.21	0.0
	SsdIntelS4510	YES	11.32	11.32	0.0
	SsdMicron5100	YES	7.01	7.01	0.0
	SsdMicron5300	YES	0.01	0.01	0.0
	TimingFpga	YES	1.01	1.01	0.0
	TimingFpgaGolden	YES	1.01	1.00	0.0
	x86Fpga	YES	0.128	0.128	0.3
	x86FpgaGolden	YES	0.128	0.128	0.3
	x86TamFw	YES	7.12	7.12	0.3
	x86TamFwGolden	YES	7.12	7.12	0.3
8804-FAN	FtFpga	NO	1.00	1.00	0.0
	FtFpga	NO	1.129	1.129	1.1
	FtFpgaGolden	NO	1.00	0.16	0.0
	FtFpgaGolden	NO	1.129	1.129	1.1
8804-FC0	IoFpga	YES	1.00	1.00	0.0
	IoFpga	YES	1.125	1.125	2.0
	IoFpgaGolden	YES	1.00	0.16	0.0
	IoFpgaGolden	YES	1.125	1.125	2.0
8808-FAN	FtFpga	NO	1.00	1.00	0.0
	FtFpga	NO	1.129	1.129	1.1
	FtFpgaGolden	NO	1.00	0.16	0.0
	FtFpgaGolden	NO	1.129	1.129	1.1
8808-FC	IoFpga	YES	1.02	1.02	0.0
	IoFpgaGolden	YES	1.02	0.05	0.0
8808-FC0	IoFpga	YES	1.00	1.00	0.0
	IoFpga	YES	1.125	1.125	2.0
	IoFpgaGolden	YES	1.00	0.16	0.0
	IoFpgaGolden	YES	1.125	1.125	2.0
8808-FC1	IoFpga	YES	1.03	1.03	0.0
	IoFpgaGolden	YES	1.03	1.03	0.0
8812-FAN	FtFpga	NO	1.00	1.00	0.0
	FtFpga	NO	1.129	1.129	1.1
	FtFpgaGolden	NO	1.00	0.16	0.0
	FtFpgaGolden	NO	1.129	1.129	1.1
8812-FC	IoFpga	YES	1.02	1.02	0.0
	IoFpgaGolden	YES	1.02	0.05	0.0
	Retimer	YES	3.00	3.00	0.0
8818-FAN	FtFpga	NO	1.00	1.00	0.0
	FtFpga	NO	1.129	1.129	1.1
	FtFpgaGolden	NO	1.00	0.16	0.0
	FtFpgaGolden	NO	1.129	1.129	1.1
8818-FC	IoFpga	YES	1.02	1.02	0.0
	IoFpgaGolden	YES	1.02	0.05	0.0
	Retimer	YES	3.00	3.00	0.0
8818-FC0	IoFpga	YES	1.00	1.00	0.0
	IoFpga	YES	1.125	1.125	2.0
	IoFpgaGolden	YES	1.00	0.16	0.0
	IoFpgaGolden	YES	1.125	1.125	2.0

```
                    Retimer                   YES      3.00      3.00      0.0
--------------------------------------------------------------------------------
PSU4.8KW-DC100      PO-PrimMCU                NO      51.85     51.85      0.0
                    PO-SecMCU                 NO      51.85     51.85      0.0
--------------------------------------------------------------------------------
PSU6.3KW-20A-HV     DT-LogicMCU               NO       1.00      1.00      0.0
                    DT-PrimMCU                NO       1.00      1.00      0.0
                    DT-SecMCU                 NO       1.00      1.00      0.0
--------------------------------------------------------------------------------
PSU6.3KW-HV         AB-LogicMCU               NO       3.08      3.08      0.0
                    AB-PrimMCU                NO       3.08      3.08      0.0
                    AB-SecMCU                 NO       3.06      3.06      0.0
                    DT-LogicMCU               NO       4.11      4.11      0.0
                    DT-PrimMCU                NO       4.01      4.01      0.0
                    DT-SecMCU                 NO       4.00      4.00      0.0
--------------------------------------------------------------------------------
PWR-4.4KW-DC-V3     DT-LogicMCU               NO       3.02      3.02      0.0
                    DT-Prim1MCU               NO       3.01      3.01      0.0
                    DT-Prim2MCU               NO       3.01      3.01      0.0
                    DT-Sec1MCU                NO       3.01      3.01      0.0
                    DT-Sec2MCU                NO       3.01      3.01      0.0
```

Compatibility Matrix for EPNM and Crosswork with Cisco IOS XR Software

The compatibility matrix lists the version of EPNM and Crosswork that are supported with Cisco IOS XR Release in this release.

Table 4: Compatibility Matrix

Cisco IOS XR	Crosswork	EPNM
Release 24.2.21	Crosswork Optimization Engine 7.0	Evolved Programmable Network Manager 8.0

Important Notes

- The warning message that the smart licensing evaluation period has expired is displayed in the console every hour. There is, however, no functionality impact on the device. The issue is seen on routers that don't have the Flexible Consumption licensing model enabled. To stop the repetitive messaging, register the device with the smart licensing server and enable the Flexible Consumption model. Later load a new registration token.

  To register the device with the smart licensing server, see the Registering and Activating Your Router.

Licensing

Starting with Cisco IOS XR Release 24.1.1, Smart Licensing Using Policy (SLP) is the default Licensing model. When you upgrade to the Cisco IOS XR Release 24.1.1 release or later, the Smart Licensing Using Policy is enabled by default.

You can migrate your devices to Smart Licensing with Policy model, see *Migrating from Smart Licensing to Smart Licensing Using Policy*, Smart Licensing Using Policy on Cisco IOS XR Routers.

We recommend that you update to the latest version of SSM On-Prem or Cisco Smart Licensing Utility.

Note SSM On-Prem and CSSM both support SLP devices and SL devices. SLP devices and SL devices can coexist in a network. The Smart Licensing (SL) model is available in releases Cisco IOS XR Release 7.11.1 and earlier.

Supported Transceiver Modules

To determine the transceivers that Cisco hardware device supports, refer to the Transceiver Module Group (TMG) Compatibility Matrix tool.

Production Software Maintenance Updates (SMUs)

A production SMU is a SMU that is formally requested, developed, tested, and released. Production SMUs are intended for use in a live network environment and are formally supported by the Cisco TAC and the relevant development teams. Software bugs identified through software recommendations or Bug Search Tools are not a basis for production SMU requests.

For information on production SMU types, refer the Production SMU Types section of the *IOS XR Software Maintenance Updates (SMUs)* guide.

Supported Transceiver Modules

To determine the transceivers that Cisco hardware device supports, refer to the Transceiver Module Group (TMG) Compatibility Matrix tool.

Cisco IOS XR Error messages

To view, search, compare, and download Cisco IOS XR Error Messages, refer to the Cisco IOS XR Error messages tool.

Cisco IOS XR MIBs

To determine the MIBs supported by platform and release, refer to the Cisco IOS XR MIBs tool.

Related Documentation

The most current Cisco 8000 router documentation is located at the following URL:

https://www.cisco.com/c/en/us/td/docs/iosxr/8000-series-routers.html

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