Release Notes for Cisco Catalyst 8200 and Catalyst 8300 Series Edge Platforms, Cisco IOS XE Dublin 17.12.x

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About The Cisco Catalyst 8200 and Catalyst 8300 Series Edge Platforms

The Cisco Catalyst 8200 and Catalyst 8300 Series Edge Platforms are best-of-breed, 5G-ready, cloud edge platforms designed for accelerated services, multi-layer security, cloud-native agility, and edge intelligence to accelerate your journey to cloud.

Cisco Catalyst 8200 and Catalyst 8300 Series Edge Platforms with Cisco IOS XE SD-WAN Software deliver Cisco's secure, cloud-scale SD-WAN solution for the branch. The Cisco Catalyst 8200 and Catalyst 8300 Series Edge Platforms are built for high performance and integrated SD-WAN Services along with flexibility to deliver security and networking services together from the cloud or on premises. It provides higher WAN port density and a redundant power supply capability. The Cisco Catalyst 8200 and Catalyst 8300 Series Edge Platforms have a wide variety of interface options to choose from—ranging from lower and higher module density with backward compatibility to a variety of existing WAN, LAN, voice, and compute modules. Powered by Cisco IOS XE, fully programmable software architecture, and API support, these platforms can facilitate automation at scale to achieve zero-touch IT capability while migrating workloads to the cloud. The Cisco Catalyst 8200 and Catalyst 8300 Series Edge Platforms also come with Trustworthy Solutions 2.0 infrastructure that secures the platforms against threats and vulnerabilities with integrity verification and remediation of threats.

The Cisco Catalyst 8200 and Catalyst 8300 Series Edge Platforms are well suited for medium-sized and large enterprise branch offices for high WAN IPSec performance with integrated SD-WAN services.

For more information on the features and specifications of Cisco Catalyst 8200 and Catalyst 8300 Series Edge Platforms, refer to the Cisco Catalyst 8300 Series Edge platforms datasheet.

Note Sections in this documentation apply to all models of Cisco Catalyst 8200 and Catalyst 8300 Series Edge Platforms unless a reference to a specific model is made explicitly.

Note Cisco IOS XE Dublin 17.12.1a is the first release for the Cisco Catalyst 8200 and Catalyst 8300 Series Edge Platforms in the Cisco IOS XE Dublin 17.12.x release series.

Product Field Notice

Cisco publishes Field Notices to notify customers and partners about significant issues in Cisco products that typically require an upgrade, workaround or other user action. For more information, see https://www.cisco.com/c/en/us/support/web/field-notice-overview.html.

We recommend that you review the field notices to determine whether your software or hardware platforms are affected. You can access the field notices from https://www.cisco.com/c/en/us/support/web/tsd-products-field-notice-summary.html#%7Etab-product-categories.

New and Changed Hardware and Software Features

Feature Navigator

You can use Cisco Feature Navigator (CFN) to find information about the software features, platform, and software image support on Cisco Catalyst 8200 and Catalyst 8300 Series Edge Platforms. To access Cisco Feature Navigator, go to https://cfnng.cisco.com/.

Note To access CFN, you do not require an account on cisco.com.

New and Changed Hardware Features

Hardware	Description
Cisco C-NIM-8M	The C-NIM-8M are the next generation LAN/WAN NIM modules that provide enhanced security, reliability, and performance. The Cisco C-NIM-8M module provides 2.5 Gbps mGig connectivity and supports UPoE+. Also, Cisco C-NIM-8M supports Layer 2 and Layer 3 configurable Ethernet network.

New and Changed Software Features in Cisco IOS XE 17.12.2

This release provides a fix for CSCwh87343: Cisco IOS XE Software Web UI Privilege Escalation Vulnerability. For more information, see the Security Advisory: cisco-sa-iosxe-webui-privesc-j22SaA4z.

Table 1: New Software Features

Feature	Description
Cisco Managed Cellular Activation (eSIM)	The Managed Cellular Activation solution provides a programmable subscriber identity module (SIM), called an eSIM, a physical SIM card that you can configure with a cellular service plan of your choice. When ordering a pluggable interface module (PIM) to provide cellular connectivity for your router, choose a PIM model with a preinstalled eSIM. The Managed Cellular Activation solution comes with a "bootstrap" cellular plan to provide internet connectivity with a limited amount of data intended only for Day 0 onboarding of the device to your cellular plan. For information about configuring Cisco SD-WAN Manager with the details of your cellular plan in preparation for onboarding the device, see the Cisco Managed Cellular Activation Configuration Guide. Prepare the configuration in Cisco SD-WAN Manager before powering on and onboarding the device, to avoid running out of the limited data in the bootstrap cellular plan. Added Cisco Managed Cellular Activation (eSIM) support for the following Pluggable Interface Module (PIM) model: • 5G Sub-6 GHz PIM, model P-5GS6-R16-GL **Note** In this context, eSIM refers to a removable SIM pre-installed by Cisco. In other contexts, eSIM can refer to a non-removable SIM embedded in a cellular-enabled device.

New and Changed Software Features in Cisco IOS XE 17.12.1a

Table 2: Software Features in Cisco Catalyst 8200 and Cisco Catalyst 8300 Series Edge Platforms

Feature	Description
IPv6 Unicast Support with DLEP	The IPv6 Unicast Support feature introduces support for IPv6 dataplane to RAR Dynamic Link Exchange Protocol.
Managing the SD-Routing Devices Using Cisco SD-WAN Manager	This feature allows you to perform management operations for SD-Routing devices using Cisco Catalyst SD-WAN Manager. You can use a single network management system (Cisco Catalyst SD-WAN Manager) to monitor all the SD-Routing devices and therefore help in simplifying solution deployments.
Quantum-Safe Encryption Using Post-Quantum Preshared Keys	This enhancement introduces support for Quantum-Safe Encryption using Post-Quantum Preshared Keys for the following platforms: • Cisco Catalyst 8300 Series Edge Platforms
Segment Routing over IPv6 Dataplane	Segment Routing (SR) can currently be applied on Multiprotocol Label Switching (MPLS) dataplane. From Cisco IOS XE 17.12.1a, SR is supported over the IPv6 dataplane for the following protocols: • Interior Gateway Protocol (IS-IS only) • Border Gateway Protocol (BGP) In addition, the following functionalities are available for Segment Routing over IPv6 dataplane: • Segment Routing Traffic Engineering Policies • Static Routes • Performance Management • Operations, Administration and Maintenance (OAM)
Support for Automatic Log Deletion	This feature allows you to delete the entries from the logging buffer. You can configure the local syslog retention period after which the entries are purged from the device automatically. To enable this feature, use the logging purge-log buffer days command.

Feature	Description
TrustSec and Software-Defined Access Scale Measurement	With this feature, the scale numbers for TrustSec and Software-Defined Access (SDA) are measured for the following: • Security Group Tag (SGT) or Destination Group Tag (DGT) Policies • Unidirectional IPv4 SGT Exchange Protocol (SXP) connections • Bidirectional IPv4 SXP connections • IPv4 SGT Bindings • IPv6 SGT Binding • Security Group Access Control Entries (SG ACEs)

ROMMON Compatibility Matrix

The following table lists the ROMMON releases supported in Cisco IOS XE 17.12.x releases.

Table 3: Minimum and Recommended ROMMON Releases Supported on Cisco Catalyst 8200 and Catalyst 8300 Series Edge Platforms respectively

Platforms	Cisco IOS XE Release	Minimum ROMMON Release Supported for IOS XE	Recommended ROMMON Release Supported for IOS XE
Catalyst 8300 Series Edge Platforms			
C8300-1N1S-4T2X|6T	17.12.1a	17.3(1r)	17.6(6r)
C8300-2N2S-4T2X|6T	17.12.1a	17.3(1.2r)	17.7(1r)
Catalyst 8200 Series Edge Platforms			
C8200-1N-4T	17.12.1a	17.4(1r)	17.6(8.1r)
C8200L-1N-4T	17.12.1a	17.5(1.1r)	17.6(8.1r)

Resolved and Open Bugs for Cisco IOS XE 17.12.x

Resolved Bugs in Cisco IOS XE 17.12.4

Identifier	Headline
CSCwj70335	Fragmented authentication packets in the Crypto IKEv2 protocol are being identified as malformed by devices from third-party vendors.
CSCwj74260	Default setting of Global Punt Policer burst needs to be increased.

Identifier	Headline
CSCwj44868	GETVPN COOP KS: Incorrect severity level for rekey acknowledgement configuration mismatch log message.
CSCwi16716	Device: Router crashed on increasing the gatekeeper cache size.
CSCwj68151	Device: Port-channel with service instances down on C-NIM-2T module.
CSCwi53616	UCS-E160S module remains in a booting state with the device.
CSCwj02246	The SFP EN LED on the device does not light up after the interface is enabled with the **no shutdown** command.
CSCwj21653	Device: Kernel crash over continuous reloads.
CSCwi29637	The SFP interface on the device is shut down, but the interface on the connected device remains up.
CSCwj09284	Unexpected reboot in WLC due to SSL.
CSCwi98707	Device: PCM captures on voice-port fail or cause NIM module reloads.
CSCwi40603	Memory leak in the crypto IKMP process .
CSCwj36946	Device: ROMMON 17.6(8.1r) release for auto-upgrade.
CSCwj34578	NAT46 translations are dropped when the NAT64 router also functions as a Carrier Supporting Carrier (CSC) Customer Edge (CE) device.
CSCwi55183	"crypto pki certificate pool" in the running configuration.
CSCwk15127	Failure to communicate a period of time after the stp status changes.
CSCwh37024	The IR1800 PnP process gets stuck when using Verizon cellular backhaul.
CSCwj45130	Segmentation Fault - The process causing the issue is the IPSec dummy packet process.
CSCwj88872	IPsec tunnel fails to establish due to error IPSec policy invalidated proposal.
CSCwj73113	MGCP GW does not respond with 250 OK for a DLCX leading to DLCX loop from CUCM side.
CSCwi59854	**show sdwan policy service-path** command displays inconsistent results with app name specified.
CSCwj38106	Only one split-exclude subnet is pushed to client PC with IOS-XE headend for a RA VPN connection.
CSCwh73320	The NAT pool is not functioning under a 16 prefix. The number of available addresses is zero.
CSCwi89822	Unexpected reboot due cpp ucode on device.
CSCwh09033	Router unable to boot with C-NIM-8T module.

Identifier	Headline
CSCwi68865	Memory leak in Crypto IKEv2 due to C_NewObject.
CSCwf87975	The router crashed when the port-channel interface flapped while using a large number of per-tunnel QoS policies.
CSCwi59834	Device: In IOS XE 17.9, the entSensorThresholdValue OID for PDU1 is missing.
CSCwh86053	Enhancement: Configuration parser issue for NAT with extendable and redundancy options.
CSCwj42249	Disabling PMTU Discovery along with an MTU change and BFD flap disrupts packet duplication.
CSCwj36915	C-NIM-2T: macsec not working under LACP port-channel member port.
CSCwi78365	Trim installed certificate on upgrade.
CSCwj72888	Reload in tcp_sanity due to l4 pointer not set.
CSCwi93784	(SWI Case 01257768) Firmware upgrade does not work properly on P-LTE-MNA with IOS versions 17.12.1a and 17.12.2.
CSCwj33292	AnyConnect connection trough IPSec fails when connecting from an RDP user to an IOS/IOS-XE headend.
CSCwj06622	Segmentation fault and core files are seen on IOS-XE in controller-manged SD-WAN due to speedtest.
CSCwi16111	ipv6 tcp adjust-mss not working after delete and reconfigure.
CSCwj29947	AAA authorization failure during IKEv2 phase negotiation caused unexpected reboot.
CSCwj79197	Device: Unexpected reload when using the packet trace feature.
CSCwj13681	Device can only store 64 FQDN patterns, but config accepts more than 64.

Open Bugs in Cisco IOS XE 17.12.4

Identifier	Headline
CSCwh86922	Unconfiguring EVC will not restore the original MAC filter table entries on the interface.
CSCwi03502	Create CLI to push at#enadis=0 followed with at#reboot to FN980 required when configuring Multi-PDN.
CSCwk31560	After the device is reloaded, the NAT (Network Address Translation) command becomes unreadable or is not displayed correctly.
CSCwk44078	GETVPN / Migrating to new KEK RSA key does not trigger GM re-registration.
CSCwj06950	DSL module gets stuck in the booting state.

Identifier	Headline
CSCwk53296	UCSE interface shutdown setting mismatch.
CSCwj21653	Kernel crash after continuous reloads.
CSCwi31110	Traceback observed @_nhrp_cache_delete due to negative global cache count.
CSCwk22942	Unable to build two IPSec SAs w/same source/destination where one peer is PAT'd through the other
CSCwk23723	Mean queue calculation is incorrect on WRED hierarchical QoS.
CSCwk58303	Watchdog crash during IPv6 cef adjacency routines.
CSCwk63722	Startup configuration failure post PKI server enablement.
CSCwj77594	IOS XE Controller Mode: WAN IP can be configured as the SYSTEM IP.
CSCwh36635	17.13 : 8300 2 RU : confd / SMP crash.
CSCwi85934	C-NIM-1M with 1G; Memb-intf add to portchannel fails with the error: Interface type mismatch.
CSCwj16153	10G front-panel port does not go down on single-mode fiber when the Rx side goes down.
CSCwk54544	SD-WAN ZBFW TCAM misprogramming occurs after rules are reordered on the device.
CSCwj84949	Unencrypted traffic due to a non-functional IPsec tunnel in a FlexVPN hub-and-spoke setup.
CSCwi56641	100G/40G QSFP fiber link reports a link-flap error when the peer device reloads.
CSCwj90614	High CPU utilisation for confd_cli.
CSCwk03686	Crash due a segmentation fault due to a negative value.
CSCwj92560	The STCAPP command is no longer present in the configuration after the device undergoes a reload.
CSCwi59183	C-NIM-1X occasionally prints "FPGA firmware is upgraded. Need to reload the module."
CSCwk31715	After deleting a NAT configuration, the IP address still shows up in routing table.
CSCwh45389	Key manager crashes after changing the hostname with usage keys.
CSCwk12524	Device reloaded due to ezManage mobile app service.
CSCwk53680	Inbound calls through VG400 results in phantom calls (64.3.0, 60.1.4, 62.3.3)
CSCwk65071	Unexpected reboot due to IOSXE-WATCHDOG DBAL EVENTS after Cellular interface flap.

Identifier	Headline
CSCwf91481	Device crashed unexpectedly after a successful WGB/AP configuration deployment from OD.
CSCwi96187	FN980 modem firmware upgrade fails when two modems are present on the device.
CSCwh91136	IOS XE: Traffic is not encrypted and is dropped over the IPSEC SVTI tunnel.
CSCwk52677	C1118-8P / DSL router crashing due to %PLATFORM-3-ELEMENT_CRITICAL memory level / iomd process.
CSCwb47658	Repeated and endless messages "Network change event - activated 4G Carrier Aggregation."
CSCwk30527	IKEv2 session goes down after a reload if the local identity address is assigned to an interface on the switch.

Resolved Bugs - Cisco IOS XE 17.12.3a

All resolved bugs for this release are available in the Cisco Bug Search Tool.

Bug ID	Description
CSCwk21189	Template attach fail with unknown element: ssh-version in /ios:native/ios:ip/ios:ssh
CSCwk20843	PPPoE with NAT DIA feature validation failed post upgrade.

Resolved Bugs in Cisco IOS XE 17.12.3

Identifier	Headline
CSCwh73350	Device keeps crashing when processing a firewall feature.
CSCwh18120	IKEv2 - diagnose feature is taking 11% CPU during the session bring up.
CSCwf67983	Platform USB disable will not work once USB is removed and inserted in a device.
CSCwi28227	NAT HSL logging vrf-filter does not work on the device.
CSCwh22414	Warning and critical CPU utilization thresholds not recomputed when using data-plane-heavy mode.
CSCwi01046	PoE module is not providing enough power to bring the ports after an unexpected reload.
CSCwh77221	SNMP unable to poll SD-WAN tunnel data after a minute.
CSCwh96578	SKA_PUBKEY_DB leak in TDL.
CSCwh69765	Security policy w/IPS external syslog config failing generation for specific device models.
CSCwi06843	Endpoint tracker triggers a CPU hog.

Identifier	Headline
CSCwh87619	ZBFW is not able to detect packets on TenGig interface.
CSCwh10813	Adding verbose log to indicate grant ra-auto un configures grant auto in PKI server.
CSCwi60312	C-NIM-2T cannot boot up in full configuration: 6x C-NIM-2T + IOS 17.12.02.
CSCwh93257	When two or more IP phones located on the NAT outside network register with the same server, the device generates incorrect or malformed NAT entries.
CSCwi59121	Mobile-app causing excessive authorization attempts with a Null Username.
CSCwh68508	The system experienced an unexpected reboot after setting up the control plane for EVPN MPLS and is starting to receive packets.
CSCwi08171	Device may crash due to Crypto IKMP process.
CSCwi49231	VG410 audio loss for 4 seconds.
CSCwi06404	PKI crash after failing a CRL fetch.
CSCwh50510	Device crash with segmentation fault(11), Process = NHRP when processing NHRP traffic.
CSCwh75800	CUBE device unexpectedly reloads while fetching certificate trustpool for SIP TLS.
CSCwi28781	Epbr will generate error when the policy is added and deleted multiple times.
CSCwi49240	One-way RTP issue including DSP Timeout Messages.
CSCwh45169	Unexpected reboot while dispalying information from cleared SSS session .
CSCwh70449	PMTUD incorrectly converging without attempting to learn a higher MTU.
CSCwh96415	Cannot disable DMVPN logging in IOS-XE 17.8 and higher.
CSCwi25737	Device should discard IKE notification messages with incorrect DOI.
CSCwi14899	Device dropping IPsec traffic when SVI is used as source for DMVPN tunnel.
CSCwh50628	Race condition crash on device.
CSCwf86207	Frame Relay DTE router crashes due to EXMEM exhaustion.
CSCwh72869	cpp_mcplo_ucode crash with port-channel and NAT.
CSCwh99399	ftmd crash observed in ENCS platform while running PWK suite.
CSCwi76087	When attempting an ATO (Assured Tactical Operations), the session fails to establish through the tunnel after repeatedly shutting down and re-enabling the connection in a loop, which simulates unplugging and plugging back in the cable on the customer's end.
CSCwi55379	IPsec traffic is being dropped on Strongswan when PPK is implemented.

Identifier	Headline
CSCwi63042	Packet drops observed between LISP EID over GRE tunnel.
CSCwi79584	Failed to upgrade device via Cisco SD-WAN Manager due to error: system config has been modified.
CSCwi59202	C-NIM-2T w/SwitzerCC in unable to boot up in IOS.
CSCwi30529	AAA:Template push fail when aaa authorization is set to local.

Open Bugs in Cisco IOS XE 17.12.3

Identifier	Headline
CSCwi03502	Creating a CLI to push at#enadis=0 followed with at#reboot to FN980 is required when configuring Multi-PDN.
CSCwi29637	Device SFP interface shut down, but opposing device interface is still up.
CSCwi67621	Critical process cpp_ha_top_level_server fault on fp_0_0 (rc=69).
CSCwj21921	Device: L2TP xconnect stops forwarding traffic after a new subinterface is added.
CSCwi46997	NAT command is not readable after the system is reloaded.
CSCwj07584	Device: Shared HSRP vMAC between multiple interfaces causes a data plane problem.
CSCwi16111	After deleting and reconfiguring the IPv6 TCP adjust-MSS setting, it is not functioning correctly.
CSCwj08744	The system unexpectedly restarts when executing the command 'show running-config full | format'.
CSCwi56641	When the peer device restarts, the device, which uses a QSFP fiber connection for 100G/40G, reports a link-flap error.
CSCwi53616	The UCS-E160S module is stuck in the booting state while being used in a device.
CSCwj13681	The device has a limitation of storing only 64 Fully Qualified Domain Name (FQDN) patterns, yet the configuration allows the input of more than 64 FQDNs.

Resolved Bugs in Cisco IOS XE 17.12.2

Identifier	Headline
CSCwh87343	Cisco IOS XE Software Web UI Privilege Escalation Vulnerability. For more information, see Security Advisory: cisco-sa-iosxe-webui-privesc-j22SaA4z.
CSCwf78735	Device uses the NIM-1T/4T card for interconnection, and NAT+ GRE over IPsec cannot be applied.
CSCwh06834	Using special characters in the password while generating TP generates an invalid TP.

Identifier	Headline
CSCwh20734	Crypto PKI-CRL-IO_0 process crash when PKI trustpoint is requested and deleted.
CSCwh41497	DDNS update retransmission timer fails to work with a traceback error.
CSCwf63706	Device HSRP received unexpected active hello packet when the interface is recovered.
CSCwf49390	Device crashes@crypto_map_unlock_map_head.
CSCwh30377	Device data plane crash in Umbrella/OpenDNS processing due to incorrect UDP length.
CSCwh20577	Crashed by track client thread at access invalid memory location.
CSCwf82676	CPU usage mismatch in **show sdwan system status** vs **show process cpu platform**
CSCwf51206	EVPN: BUM traffic is not flooded to bridge domain interface.
CSCwf80191	Flowspec on device does not revoke.
CSCwf99947	Crash when modifying tunnel after running **show crypto** command.
CSCwf67564	Device observes memory leak at process "SSS Manager".
CSCwf60151	Memory leak with pubd.
CSCwh60190	**ip name-server** command not pushed.
CSCwf56463	IOS process crash during VRRP hash table lookup.
CSCwh11858	Device running IOS-XE crashes when removing FQDN ACL.
CSCwf99906	NTP authentication removed after reload using more than 16 bytes.
CSCwf59173	Segmentation fault at IPv6 BGP backup route notification.
CSCwf67351	Cisco IOx application hosting environment privilege escalation vulnerability.
CSCwf68612	WLC unexpected ueload due to segmentation fault in WNCD process.
CSCwh00963	Unable to migrate from ADSL to VDSL without reboot.
CSCwf41084	Extranet multicast code improvements for better handling of data structure.
CSCwh04884	VC down due to control-word negotiation.
CSCwf26494	BDI + NTP configuration puts DMI process in degraded mode.
CSCwh96700	Carrier Grade NAT reaching max host entries and failing to translate due to gatekeeper

Open Bugs in Cisco IOS XE 17.12.2

Identifier	Headline
CSCwh73350	Router keeps crashing when processing a firewall feature.

Identifier	Headline
CSCwh94906	Segmentation fault crash with Network Mobility Services Protocol (NMSP).
CSCwf67983	The platform USB disable will not work once USB is removed and inserted.
CSCwh22414	Warning and critical CPU utilization thresholds not recomputed when using data-plane-heavy mode.
CSCwh59071	Displays faulty Output for **show int te0/0/0 transceiver** command.
CSCwh16901	HSEC license installation from the workflow does not complete.
CSCwh77221	SNMP unable to poll Cisco SD-WAN tunnel data after a minute.
CSCwh10813	Add verbose log to indicate grant ra-auto un configures grant auto in PKI server.
CSCwh68508	Unexpected reboot after establishing control plane of EVPN MPLS and receiving packets.
CSCwh79161	Device requires Shut/No Shut to populate IP address from modem to host.
CSCwh75800	Router unexpectedly reloads while fetching certificate trustpool for SIP TLS.
CSCwh57544	Silent reload due to LocalSoftADR causes crash without core file.
CSCwi01046	PoE module is not providing enough power to bring the ports after an unexpected reload.
CSCwh50510	Router crash with segmentation fault (11), Process = NHRP when processing NHRP traffic
CSCwd69953	Device driver is not sending NGIO packets to UCSE after the router reload.
CSCwh73320	NAT Pool does not working under prefix 16. Available address = zero.
CSCwh96700	Carrier Grade NAT reaching max host entries and failing to translate due to gatekeeper.
CSCwh45169	Unexpected reboot while dispalying information from cleared SSS session.
CSCwh70449	PMTUD incorrectly converging without attempting to learn a higher MTU.
CSCwf91481	Device crashed unexpectedly after a successful WGB/AP config deployment from OD.
CSCwf00276	Packets with L2TP headers cause device to crash.
CSCwh83228	NHRP phase 3 spoke-spoke cache got purged after 5-6 hours with always on traffic running.
CSCwe54687	After removing the USB from the device, the files copied to it will be deleted.
CSCwh91136	IOS XE:Traffic not encrypted and droped over PSec SVTI tunnel.
CSCwh96415	Unable to disable DMVPN logging.

Identifier	Headline
CSCwh12093	Enable SoS/ROC feature for DSL.
CSCwf86207	Frame relay DTE router crashes due to EXMEM exhaustion.
CSCwh58252	IPv6 SPD min/max defaulting to values 1 and 2.
CSCwh14083	High CPU due to MPLS MIB poll.
CSCwh22981	WNCD process crashes.
CSCwh99513	VPLS IRB not working when traffic came from VPNv4 and next-hop is learned over VPLS.
CSCwh90851	pubd process showing high CPU utilization.
CSCwh83532	1Gig int on device using GLC-SX-MMD are down/down after changing connection.
CSCwh96891	Memory leak with pubd.
CSCwh91085	Convergence improvement after device reboot with mVPN profile 14.
CSCwh58919	NETCONF: DMI enters degraded mode caused by BGP neighbor configured under the SCOPE command.
CSCuu85298	FIB/LFIB inconsistency after BGP flap.
CSCwf83684	IOS XE router may experience "%FMANRP_QOS-4-MPOLCHECKDETAIL:" errors.
CSCwh59926	EEM is running daily instead of weekly or monthly if special strings @weekly or @monthly are used.
CSCwh24280	Mismatch between the resource allocation and "app-resource profile custom" configuration.
CSCwh82668	Incorrect local MPLS label in CEF after BGP flap.
CSCwh95036	Cisco IOS-XE IPv6 based subscription telemetry does not work.
CSCwh99464	Guestshell connectivity not working with NAT overload.
CSCwh30928	SDA - using "spt-threshold infinity" and having LHR+FHR can cause the S,G to be pruned on the RP.
CSCwh01738	Unexpected reload when using rsh/rcmd.
CSCwh04124	Locally generated traffic received on incorrect interface inbound and dropped by ACL.
CSCwh67285	WLC unable to get telemetry data due to pubd unexpected reload and fail.
CSCwh96332	Device crash due to dhcpd_binding_check.
CSCwh56940	Site tag change wncd working/failing EAP-TLS.
CSCwh44418	ARP incomplete in VRF Mgmt-intf - G0/0/0 - Switch -G0.

Identifier	Headline
CSCwh46559	LLDP location information not sent when configured.
CSCuv36790	**clear bgp** command does not consider AFIs when used with update-group option.
CSCwh02698	Device sending incomplete SGT to ISE.
CSCwh05869	Only portion of HSRP config being pushed via CLI ADDON template.
CSCwf53750	"match pktlen-range" does not work with GRE/IPSEC GRE.
CSCwh60107	In the show tech file, "enable secret" does not get hidden.
CSCwh45579	Unexpected reload on device ucode core @l2_dst_output_goto_output_feature_ext_path.
CSCwh95024	ISIS crash in local uloop.
CSCwh41155	Wrong /32 self, complete map-cache entry for fabric hosts on iBN when overlapping summary exists.
CSCwh31485	Member interface config not applied with mis-match in pcakages.conf files.
CSCwh72437	WLC not sending accounting start for user auth after machine auth on 9105AXW RLAN dot1x port.
CSCwi00680	Router unexpectedly reloads while using DHCP for ISG.
CSCwh96823	IOS-XE router not installing classless-static-routes from DHCP option 121.
CSCwh77706	SVL, 10G link on the active chassis will go down after reload.
CSCwh02592	Device sync fails when device prompt comes along with device banner and TACACS is used.
CSCwh84850	Unexpected reboot in device due to SISF and STP initialization.
CSCwh64903	Crash on device polling SPA sensor data.
CSCwh53432	VLAN name mismatch when authorizing vlan name from radius server and enable vlan fallback.
CSCwh21796	Password getting visible for the mask-secret in show logging.
CSCwh50104	Upgrade failing with config check track-id-name.
CSCwf59929	CTS CORE process crash after configuring role based ACL.
CSCwh81471	IPv6 traffic is passing through when the client is in Webauth Pending state (CWA).
CSCwh93772	Option 121 never requested by IOS-XE client.
CSCwh06087	[IPv6 BGP] multiple sourced paths present for the same prefix.
CSCwh29120	IP SPD queue thresholds are out of range.

Identifier	Headline
CSCwh14953	CBQoS polling for the object cbQosCMPostPolicyBitRate returns incorrect value.
CSCwh89096	Device unexpected reload.
CSCwh99597	After migration MAC/IP only MAC is advertised.
CSCwh75992	"BGP Router" process crash.
CSCwh48058	Memory leak under MallocLite/AAA proxy with NETCONF/RESTCONF.
CSCwh76920	Memory leak in linux_iosd-imag due to SNMP.
CSCwh75112	After a reboot, EAP-FAST/PEAP does not authenticate unless credentials are changed.

Resolved Bugs in Cisco IOS XE 17.12.1a

Identifier	Headline
CSCwe82666	Not all HSL entries get pushed to device if more than 1 HSL entries are configured.
CSCwe31226	Issues/discrepancies around CPU alarms generated and sent to device.
CSCwe98345	FHRP stay in active/active state after physical interface flap.
CSCwe43341	TLS control-connections down, traffic from controller dropped with SDWAN Implicit ACL Drop.
CSCwe18124	MACsec remains marked as secured, but randomly the traffic stops working.
CSCwe18276	Route-map not getting effect when its applied in OMP for BGP routes.
CSCwb74821	Unexpected behavior due to unstable power source.
CSCwe81182	(EPC, packet-trace) for IPsec running COFF (Crypto Offload).
CSCwe63222	Certificate output is not getting changed on renew when Cloud Certificate Authorization is Automated.
CSCwe93905	NAT ALG is changing the Call-ID within SIP message header causing calls to fail.
CSCwe90501	Router upgrade fails due to **advertise aggregate** with VRF.
CSCwe85195	AAR: BoW feature ignoring color preference from Tiered Transport preference configuration.
CSCwe14885	VPN is established although the peer is using a revoked certificate for authentication.
CSCwe88689	ROMMON for auto-upgrade.
CSCwd53710	Crash seen when umbrella/zscaler template pushed to device when name_lookup takes > 30 sec.
CSCwe66318	NAT entries expire on Standby Router.

Identifier	Headline
CSCwd84599	Dataplane memory utilization issue - 97% QFP DRAM memory utilization.
CSCwd59722	Unexpected reboot due to IOSXE-WATCHDOG: Process = Crypto IKMP.
CSCwe70374	Platform punt-policer is not configurable.
CSCwe73408	For some error condition platform_properties may double free.
CSCwd42523	Same label is assigned to different VRFs.
CSCwe85301	Crypto PKI-CRL-IO_0 process crash when PKI trustpoint is being deleted.
CSCwe12194	Auto-Update Cycle incorrectly deletes certificates.
CSCwe57239	All usb internal communcation is closed when using **platform usb disable** command.
CSCvz82148	%CRYPTO_SL_TP_LEVELS-6-VAR_NEW_VALUE message is observed in each write config with same crypto value.
CSCwe85421	Device BFD Session Down with interface flap.
CSCwe95606	Double GR_Additional log enablement defect.
CSCwe31471	Segmentation fault in PB rx when per-tunnel qos config withdraw.
CSCwe89404	No way audio when using secure Hardware conference with secure endpoints.
CSCwd39257	IOS-XE cpp crash when entering **no ip nat create flow-entries**.
CSCwe70642	AAR overlay actions are applied to DIA traffic.
CSCwa96399	Configuring **entity-information** xpath filter causes syslogs to print, does not return data.
CSCwe79007	Device unexpected reload when doing ips test with UTD IPS engine.
CSCwe31281	Autotunnel Ipsec tracker: Tracker does not come up at all on vedge.
CSCwd93401	AppNav-XE: Policy-map edit on cluster with multiple service context fails to program TCAM.
CSCwf65696	Non-fabric- Load the minimal bootstrap configs again if device rebooted without saving the configs.
CSCwd76648	Port-channel DPI Load-Balancing not utilizing all the member-links.
CSCwe39011	GARP on port up/up status from router is not received by remote peer device.
CSCwb39206	Enable VFR CLI.
CSCwe85022	Telstra Cert: FN980 modem (P-5GS6-GL) is showing 4 additional NR bands support - 1, 3, 7, and 28.

Open Bugs in Cisco IOS XE 17.12.1a

Identifier	Headline
CSCwf70854	Changes to speed on the interface via CLI/GUI dont go through unless first done via shell access.
CSCwh67812	Unable to configure crypto map on a physical interface due to which crypto map-based VPN's cannot be formed.
CSCwf72079	Router unexpectedly reloads due to 'LocalSoft'.
CSCwh06834	Using special characters in the password while generating TP generates an invalid TP.
CSCwh06870	APN password in plain text when Cellular controller profile is configured.
CSCwf87292	Punt keep alive failure crash on controller managed device apparently due to data packets.
CSCwf83850	With Pure IPV6, minimal bootstrap unable to onboard Non-Fabric - ipv6 config missing in wan int G1.
CSCwf94294	Misprograming during vpn-list change under data policy.
CSCwa57254	Router Silent Reload due to CpuCatastrophicError.
CSCwf55145	SFP transceiver DOM not working after some time, however interface forwards the traffic as expected.
CSCwf94052	BFD going down for newly onboarded device.
CSCwh01095	Rapid memory leak on ngiolite process.
CSCwf61720	No licenses in use after upgrading from Traditional to Smart licensing IOS-XE versions.
CSCwf80927	Speed tests to internet from device triggered will fail sometimes.
CSCwf84522	Unexpected reboot due QFP UCode due to IPSec functions.
CSCwh00320	**Show run** and other show commands not in sync after removing GigabitEthernet3.
CSCwf44703	NAT64 prefix is not originated into OMP.
CSCwf99947	Crash when modifying tunnel after running **show crypto** commands.
CSCwf77252	SIP calls not working on device with ZBFW enabled.
CSCwf96416	Could not access any device show commands at all.
CSCwf67564	RP3 observes Memory Leak at process SSS Manager.
CSCwf34171	**Configure replace** command fails due to the license udi PID XXX SN:XXXX line on IOS-XE devices.
CSCwh01425	ITU channel configuration seems not working on router.

Identifier	Headline
CSCwh00963	Unable to migrate from ADSL to VDSL without reboot on device.
CSCwf69062	SDRA-SSLVPN : The SSLVPN session closes with re-authentication error after some interval of time.
CSCwf79264	Traffic forwarded to wrong VPN hence traffic gets wrong zonepair matched and gets dropped.
CSCwf71557	IPv4 connectivity over PPP not restored after reload.
CSCwf45486	OMP to BGP Redistribution Leads to Incorrect AS_Path Installation on Chosen Next-Hop.
CSCwh01313	Unexpected reboot due qfp Ucode due to IPsec functions.
CSCwf95527	BFD Entries Removed.
CSCwe26895	Router has Local Soft ADR crash, writes flat core, and reloads.
CSCwh01318	Multiple Crashes observed on device platform due to Memory Exhaustion.
CSCwf71116	Static route keep advertising via OMP even though there is no route.
CSCwf60120	Static NAT entry gets deleted from running config; but remains in startup config.
CSCwh00332	B2B NAT: when configration ip nat inside/outside on VASI intereface,ack/seq number abnormal.
CSCwf49390	Device crashes with crypto map unlock map head.
CSCwf78735	Device uses the NIM-1T/4T card for interconnection, and NAT with GRE over IPsec cannot be applied.
CSCwf84960	C-NIM-2T: LED L remains green after port shutdown.

Related Documentation

- Hardware Installation Guide for Catalyst 8200 Series Edge Platforms
- Hardware Installation Guide for Catalyst 8300 Series Edge Platforms
- Smart Licensing Using Policy for Cisco Enterprise Routing Platforms
- Cisco Catalyst 8300 and 8200 Series Edge Platforms Software Configuration Guide

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