



Release Notes for Cisco Catalyst 8500 Series Edge Platforms, Cisco IOS XE Dublin 17.10.x

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About Cisco Catalyst 8500 Series Edge Platforms



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Note Cisco IOS XE Dublin 17.10.1a is the first release for Cisco Catalyst 8500 Series Edge Platforms in the Cisco IOS XE Dublin 17.10.x release series.

The Cisco Catalyst 8500 Series Edge Platforms are high-performance cloud edge platforms designed for accelerated services, multi-layer security, cloud-native agility, and edge intelligence to accelerate your journey to cloud.

The Cisco Catalyst 8500 Series Edge Platforms includes the following models:

- C8500-12X4QC
- C8500-12X
- C8500L-8S4X
- C8500-20X6C

For more information on the features and specifications of Cisco 8500 Series Catalyst Edge Platform, refer the [Cisco 8500 Series Catalyst Edge Platform datasheet](#).

Sections in this documentation apply to all models of unless a reference to a specific model is made explicitly.



Note Starting with Cisco IOS XE Amsterdam 17.3.2 release, with the introduction of Smart Licensing Using Policy, even if you configure a hostname for a product instance or device, only the Unique Device Identifier (UDI) is displayed. This change in the display can be observed in all licensing utilities and user interfaces where the hostname was displayed in earlier releases. It does not affect any licensing functionality. There is no workaround for this limitation.

The licensing utilities and user interfaces that are affected by this limitation include only the following:

- Cisco Smart Software Manager (CSSM),
- Cisco Smart License Utility (CSLU), and
- Smart Software Manager On-Prem (SSM On-Prem).

Feature Navigator

You can use Cisco Feature Navigator (CFN) to find information about the features, platform, and software image support on Cisco Catalyst 8500 Series Edge Platforms. To access Cisco Feature Navigator, go to <http://www.cisco.com/go/cfn>. An account on cisco.com is not required.

New and Changed Hardware Features

Table 1: Hardware Features

Feature	Description
Cisco Catalyst 8500-20X6C Edge Platform	The Cisco Catalyst 8500-20X6C Edge Platform, as part of the Catalyst 8500 series of routers, is available from Cisco IOS XE Dublin 17.10.x. The C8500-20X6C router is designed to provide high-speed connectivity and advanced security features for enterprise networks. For more information on this, refer to the Cisco Catalyst 8500 Series Edge Platforms Hardware Installation Guide and Software Configuration Guide .

New and Changed Software Features

Table 2: Software Features

Feature	Description
Layer 2 BGP VXLAN EVPN	Border Gateway Protocol (BGP) Ethernet VPN (EVPN) Virtual Extensible LAN (VXLAN) is a campus and data center network solution for Cisco devices that run on Cisco IOS XE software. This feature allows Layer 2 segments to be supported across an IP core therefore allowing improved scalability with infrastructure. It also provides all the benefits of Layer 3 topologies.
Segment Routing Absolute One-Way Link Loss Measurement for GRE-IPSec Tunnel	This feature provides a mechanism for link loss measurement for point-to-point GRE-IPSec tunnel and identifies paths that meet specified loss criteria.
SHA2 support for SNMP v3 user authentication	This feature provides support for SHA-2 as an additional authentication protocol to create an SNMPv3 user and associate a security level to each user. The SHA-256, SHA-384, and SHA-512 are the supported HMAC-SHA-2 protocols. You can configure the SHA-2 authentication protocol using a new keyword - sha-2 - in the snmp-server user command, and extend the authentication level from the existing MD5 and SHA protocols. For more information, see Cisco IOS SNMP Support Command Reference
Stateful Network Address Translations using VRF with CGN	This feature introduces support to enable stateful NAT64 translations with Carrier Grade NAT (CGN) enabled within Virtual routing and forwarding (VRF) instances in a network.
Support for YANG Operational Model in the GETVPN architecture	This feature enables the YANG operational model in the GETVPN architecture to support the crypto gdoi command which was previously enabled only for the CLI and SNMP models

Resolved and Open Bugs for Cisco IOS XE 17.10.x

Resolved Bugs for Cisco IOS XE 17.10.1a

Bug ID	Description
CSCwc70511	Device reloads unexpectedly during NHRP processing
CSCwb35303	X25 FRMR seen when switching from XOT to low speed serial
CSCwc77981	Device crashed - track the FMAN-FP's memory leak caused by cond-debug

Bug ID	Description
CSCwc29735	Improve debug for reload at crypto_dev_proxy_ipc_ipsec_sa_crt_hndlr when scale exceed limit
CSCwc06327	PFP policy in SRTE, RIB resolution in FC bring down IPsec tunnel interface- stuck at linestate down
CSCwc78021	Device crash @ fman_acl_remove_default_ace.
CSCwd16664	GetVPN long SA - GM re-registration after encrypting 2^32-1 of packets in one IPSEC SA

Open Bugs for Cisco IOS XE 17.10.1a

Bug ID	Description
CSCwd25107	Interface Vlan1 placed in shutdown state when configured with ip address pool
CSCwd23810	IOS-XE: A high CPU utilization caused by NHRP
CSCwd45402	MSR Unicast-To-Multicast not working if DST and SRC are the same in service reflect configuration
CSCwd61255	Data plane crash on device when making QoS configuration changes
CSCwc65697	Device crashing and restarting during call flow
CSCwd53205	IKEv2 - RRI routes are intermittently disappearing from a FlexVPN hub
CSCwc99823	FMAN crash seen in SGACL@ fman_sgACL_alloc
CSCwd59722	Unexpected reboot due to IOSXE-WATCHDOG: Process = Crypto IKMP.
CSCwd18028	After deleting CSP, New CCM bringup on existing CSP is stuck in Initializing CCM on MT cluster

ROMmon Release Requirements

Use the following tables to determine the ROMmon version required for your Catalyst 8500 model:

Table 3: Minimum and Recommended ROMmon Releases

	DRAM	Minimum Rommon	Recommended Rommon
C8500-12X4QC & C8500-12X	16GB(default)	17.2(1r)	17.11(1r)
	32GB	17.2(1r)	17.11(1r)
	64GB	17.3(2r)	17.11(1r)
C8500-20X6C	All variants	17.10(1r)	17.10(1r)

C8500L-8S4X	-	17.8(2r) - available from Cisco IOS XE 17.9.1a release	-
	-	17.10(1r)- available from Cisco IOS XE 17.10.1a release	-



Note In case of C8500L-8S4X platform, the ROMmon image is bundled with the Cisco IOS XE software image which ensures that when the device is booted up, the ROMmon image is also automatically upgraded to the recommended version.

Table 4: ROMmon Release per Platform

C8500-12X4QC & C8500-12X	17.2(1r)
	17.3(1r)
	17.11(1r)
C8500-20X6C	17.10(1r)
C8500L-8S4X	17.8(2r)
	17.10(1r)

Table 5: What's New in the ROMmon Release

ROMmon Release for C8500-12X4QC, C8500-12X	Fixes
17.3(1r)	Supports 64GB DRAM for C8500-12X4QC & C8500-12X
17.10 (1r)	Added support for new platform C8500-20X6C
17.11(1r)	Fixed a issue in data wipe feature
ROMmon Release for C8500L-8S4X	Fixes
17.10(1r)	CSCwa41877 - Fixes for Intel 2021.2 IPU CSCwb67177 - Fixes for Intel 2022.1 IPU CSCwb60723 - Fixes for CPU temperature CSCwb60863 - Fixes for TAM_LIB_ERR_WRITE_FAILURE error

Related Documentation

- [Hardware Installation Guide for Catalyst 8500 Series Edge Platforms](#)
- [Hardware Installation Guide for Catalyst 8500L Series Edge Platforms](#)
- [Smart Licensing Guide for Access and Edge Platforms](#)
- [Software Configuration Guide for Catalyst 8500 Series Edge Platforms](#)

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Go to **Products by Category** and choose your product from the list, or enter the name of your product. Look under **Troubleshoot and Alerts** to find information for the issue that you are experiencing.

