



# Release Notes for Cisco Catalyst 8500 Series Edge Platforms, Cisco IOS XE 17.15.x

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## About Cisco Catalyst 8500 Series Edge Platforms



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**Note** Cisco IOS XE 17.15.1a is the first release for Cisco Catalyst 8500 Series Edge Platforms in the Cisco IOS XE 17.15.x release series.

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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, see the [Cisco 8500 Series Catalyst Edge Platform datasheet](#).

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

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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>.

## 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 <https://cfng.cisco.com/>. An account on cisco.com is not required.

## New and Changed Software Features in Cisco IOS XE 17.15.1a

**Table 1: Software Features**

Feature	Description
<a href="#">Enhanced NAT Management</a>	From Cisco IOS XE 17.15.1a, the Enhanced NAT Management feature enables network operators to safeguard system performance by limiting NAT translations based on CPU usage with the <a href="#">ip nat translation max-entries cpu</a> command. This feature also enables streamlining NAT synchronization in redundant systems using the <a href="#">ip nat settings redundancy optimized-data-sync</a> command.
Enhancements to Segment Routing over IPv6 Dataplane	From Cisco IOS XE 17.15.1a, Segment Routing over IPv6 dataplane supports these functionalities: <ul style="list-style-type: none"> <li>• <a href="#">IS-IS Microloop Avoidance</a></li> <li>• <a href="#">IS-IS Loop-Free Alternate Fast Reroute</a></li> <li>• <a href="#">IS-IS Topology-Independent Loop-Free Alternate Fast Reroute</a></li> <li>• <a href="#">OAM Traffic Engineering</a></li> </ul>
<a href="#">Enhancement to SGACL Logging</a>	This feature enhances the Security Group-based Access Control List (SGACL) logging capability by using High Speed Logging (HSL) for Cisco IOS XE devices. SGACL logging through HSL provides an efficient and reliable logging method for security events in network environments with high-traffic volumes.
<a href="#">Absolute Path for HTTP or HTTPS File Transfer</a>	The File Transfer using HTTP or HTTPS feature allows you to copy files from a remote server to your local device, using the copy command. From Cisco IOS XE 17.15.1a, you must provide the absolute file path when you execute the copy command, to transfer the file.
<a href="#">Network-Wide Path Insights on Software Defined (SD) - Routing Devices</a>	Network-Wide Path Insights (NWPI) is a tool that allows network administrators to monitor Cisco SD-Routing deployment, identify network and application issues, and optimize the network.
<a href="#">Cisco Umbrella Scope Credentials</a>	From Cisco IOS XE 17.15.1a, this feature provides the ability to define and configure a new single Cisco Umbrella credential for both Umbrella SIG and Umbrella DNS.

Feature	Description
<a href="#">Configure Multiple WAN Interfaces on Cisco SD-Routing Devices Using a Custom VRF</a>	<p>You can now create a custom VRF that hosts one or more WAN interfaces. You can extend this functionality to create multiple custom VRFs with each VRF hosting multiple WAN interfaces. These WAN interfaces now function as transport interfaces to establish control connections to the Cisco Catalyst SD-WAN Manager. Having multiple WAN interfaces ensures that there is resiliency in control connections and routing of transport traffic.</p>
<a href="#">Monitoring SD - Routing Alarms</a>	<p>From Cisco IOS XE 17.15.1a, network administrators can monitor SD-Routing device alarms on Cisco Catalyst SD-WAN Manager. This feature enables SD-Routing devices to record and store various alarms generated by control components and routers. For more information, see <a href="#">Cisco SD-Routing Command Reference Guide</a>.</p>
<a href="#">Configure DMVPN for SD-Routing Devices</a>	<p>Cisco DMVPN (Dynamic Multipoint VPN) is a routing technique to build a VPN network with multiple sites without having to statically configure all devices. This technique uses tunnelling protocols and encrypted security measures to create virtual connections, or tunnels, between sites. These tunnels are dynamically created as needed, making them both efficient and cost-effective.</p>
<a href="#">Enabling Flow Level Flexible NetFlow Support for SD-Routing Devices</a>	<p>The Flow-level Flexible NetFlow (FNF) feature allows you to monitor the NetFlow traffic and view all the flow-level FNF data that is captured including application-level statistics.</p>
<a href="#">Network-Wide Path Insights on SD-Routing Devices</a>	<p>Network-Wide Path Insights (NWPI) is a tool that allows network administrators to monitor Cisco SD-Routing deployment, identify network and application issues, and optimize the network.</p>
<a href="#">Seamless Software Upgrade for SD-Routing Devices</a>	<p>This feature explains how to seamlessly upgrade and onboard an existing Cisco Routing device into the Cisco SD-WAN infrastructure.</p>
SD-Routing License Management	<p>This release introduces license management support for SD-Routing devices. The supported licensing workflows include license assignment or configuration, license use, and license usage reporting. Depending on the device, these workflows are performed in the Cisco Catalyst SD-WAN Manager or on the device.</p>

## Resolved and Open Bugs for Cisco IOS XE 17.15.1a

### Resolved Bugs for Cisco IOS XE 17.15.1a

Identifier	Headline
<a href="#">CSCwj51700</a>	CPP crashes after reconfiguring <b>ip nat settings pap limit</b> feature in high QFP state
<a href="#">CSCwk42634</a>	A critical process vip_confid_startup_sh has failed
<a href="#">CSCwj53456</a>	Crash triggered by <b>crypto ikev2 cluster detail</b> Command
<a href="#">CSCwk26247</a>	C8500L QFP stuck threads crash while handling netflow features under autonomous mode
<a href="#">CSCwk33173</a>	EzPM application-performance profile cause memory leak and crash with long-lived idle TCP flows
<a href="#">CSCwk16333</a>	Device repeatedly crashing in FTMD due to FNF flow add
<a href="#">CSCwj96852</a>	Return traffic for outside to inside NAT traffic received on one TLOC is forwarded out of other TLOC
<a href="#">CSCwj95633</a>	No data to display for device
<a href="#">CSCwk39131</a>	Device crashed when issuing <b>show sdwan ftm next-hop chain all</b>
<a href="#">CSCwk22225</a>	FTMD crashes after receiving credentials
<a href="#">CSCwj48909</a>	Coredump observed in tracker module while running exp_sig_auto_tunnel suite
<a href="#">CSCwk23723</a>	Mean queue calculation is incorrect on hierarchical QoS
<a href="#">CSCwk45165</a>	Memory leak on device
<a href="#">CSCwj76501</a>	Data plane crash in ERSPAN processing
<a href="#">CSCwj84949</a>	Unencrypted traffic due to non-functional IPsec tunnel in FLEXVPN Hub & Spoke setup
<a href="#">CSCwi56641</a>	Device reports link-flap error when peer reloads
<a href="#">CSCwk20583</a>	40G interfaces with breakout configurations flap after reload
<a href="#">CSCwj90614</a>	High CPU utilisation for confd_cli
<a href="#">CSCwi81026</a>	BFD sessions flapping during IPsec rekey in scaled environment
<a href="#">CSCwk39268</a>	Failing to renew
<a href="#">CSCwj76662</a>	High memory utilization due to ftmd process
<a href="#">CSCwk31715</a>	After deleting a NAT configuration, the IP address still shows up in routing table.
<a href="#">CSCwk12524</a>	Device reloaded due to ezManage mobile app Service.

Identifier	Headline
<a href="#">CSCwk44078</a>	GETVPN Migrating to new KEK RSA key doesn't trigger GM re-registration
<a href="#">CSCwk22942</a>	Unable to build two IPSec SAs with same source destination where one peer is PAT through the other
<a href="#">CSCwj96092</a>	ICMP tracker type (from echo to timestamp) change causes tracker to fail
<a href="#">CSCwj99827</a>	Device unexpectedly reloads due to a crash
<a href="#">CSCwi99454</a>	FNF test tunnel name change failed due to session of pm5 was not alive
<a href="#">CSCwj02401</a>	Device reloaded when generating admin tech while processing very high number of flows
<a href="#">CSCwj40223</a>	appRouteStatisticsTable sequence misordered or OS returns wrong order
<a href="#">CSCwk19725</a>	Add FNF cache limit
<a href="#">CSCwk22312</a>	Input errors and overrun on port channel interface and physical interface
<a href="#">CSCwj86794</a>	Device crashes while processing an NWPI trace
<a href="#">CSCwk42253</a>	Unexpected reboot when a HTTP connection fails with 404
<a href="#">CSCwj67591</a>	Activate effective only after second re-try with new uuid
<a href="#">CSCwj32347</a>	DIA Endpoint tracker not working with ECMP routes

#### Open Bugs for Cisco IOS XE 17.15.1a

Identifier	Headline
<a href="#">CSCwk75733</a>	Custom applications may not be programmed properly
<a href="#">CSCwk89256</a>	Speed mismatch in IOS-XE configuration after device template push for ISR
<a href="#">CSCwk85704</a>	add-on CLI push failed
<a href="#">CSCwm07396</a>	Few BFD sessions down after clear mka session on client
<a href="#">CSCwk95308</a>	CRC errors increment on down interface of device
<a href="#">CSCwk98006</a>	Unable to Establish NAT Translations with ZBFW enabled
<a href="#">CSCwk86355</a>	File transfer fails - lost connection
<a href="#">CSCwk49806</a>	Device rebooted unexpectedly due to process NHRP crash
<a href="#">CSCwk81360</a>	Device reboots unexpectedly while configuring NAT Static translation
<a href="#">CSCwk62954</a>	Multiple configs not pushed under crypto profile
<a href="#">CSCwk63722</a>	Startup configuration failure post PKI server enablement

Identifier	Headline
<a href="#">CSCwk97092</a>	MKA session not coming up after shut no shut with EVC
<a href="#">CSCwm07564</a>	Data-policy local-tloc-list breaks RTP media stream
<a href="#">CSCwk25731</a>	Device flaps more than once when interface is bounced with SRBD optics
<a href="#">CSCwk54544</a>	TCAM misprogramming after rules are reordered on device
<a href="#">CSCwk89523</a>	IOSd crash during function to add/delete a MAC address from the MAC accounting table
<a href="#">CSCwk74298</a>	Device denied for template push and some show commands with error application communication failure
<a href="#">CSCwk98578</a>	GETVPN ipv6 crypto map not shown in interface configuration
<a href="#">CSCwk70630</a>	Cannot import device certificate.
<a href="#">CSCwk97930</a>	Crash occurs when IPv6 packets with link-local source are forwarded to tunnels
<a href="#">CSCwk79454</a>	Endpoint Tracker does not fail if default route is removed
<a href="#">CSCwk90014</a>	NAT DIA traffic getting dropped due to port allocation failure
<a href="#">CSCwi87546</a>	Device unexpectedly reboots due to QFP CPP
<a href="#">CSCwk61238</a>	RRI static not populating route after reload if stateful IPsec is configured
<a href="#">CSCwk95044</a>	SPA.smu.bin drops when packet duplication link fails-over.
<a href="#">CSCwj87028</a>	Device showing custom APP as "unknown" for egress traffic when using DRE Opt
<a href="#">CSCwm08545</a>	Centralized policy policer worked per PC on the same site not per site/vpn-list
<a href="#">CSCwk34187</a>	Application Dicom under family Middleware not displayed in DPI flows
<a href="#">CSCwf62943</a>	System image file is not set to packages.conf when image expansion fails due to disk space
<a href="#">CSCwm00309</a>	Packets not hitting the correct data policy after modifying the action of a sequence

## ROMmon Release Requirements

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

**Table 2: Minimum and Recommended ROMmon Releases**

	DRAM	Minimum ROMmon	Recommended ROMmon
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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	-	17.10(1r) -	17.14(1r)



**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 3: 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
17.14(1r)	<p><a href="#">CSCwf98337</a> - Evaluation of C8500L-8S4X for Intel 2023.3 IPU and SMRAM vulnerabilities</p> <p><a href="#">CSCwe21026</a> - Evaluation of C8500L-8S4X for Intel 2023.1 IPU and SMM vulnerabilities</p>

## Upgrade ROMmon

To upgrade the ROMmon version of your device, use these steps:

1. Check the existing version of ROMmon by using **show rom-monitor r0** command. If you are installing Cisco IOS XE software on a new device, skip this step.
2. Review [Minimum and Recommended ROMmon Releases](#) to identify the recommended version of ROMmon software for the device you plan to upgrade.
3. Go to <https://software.cisco.com/#> and download the ROMmon package file.
4. Copy the ROMmon file to flash drive:
 

```
copy ftp://username:password@IP addressROMmon package file flash:
```
5. Upgrade the ROMmon package using the following command:



```
upgrade rom-monitor filename bootflash:ROMmon package name all
```

6. Execute **reload** command to complete the ROMmon upgrade process
7. Execute **show rom-monitor r0** command to ensure the ROMmon software is upgraded.

## Related Documentation

- [Hardware Installation Guide for Catalyst 8500 Series Edge Platforms](#)
- [Hardware Installation Guide for Catalyst 8500L Series Edge Platforms](#)
- [Smart Licensing Using Policy for Cisco Enterprise Routing 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.

