Release Notes for Cisco Catalyst 8500 Series Edge Platforms, Cisco IOS XE Cupertino 17.8.x

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About Cisco Catalyst 8500 Series Edge Platforms

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Note   Cisco IOS XE Cupertino 17.8.1a is the first release for Cisco Catalyst 8500 Series Edge Platforms in the Cisco IOS XE Cupertino 17.8.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

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).

New and Changed Software Features

Table 1: Software Features

Feature	Description
Download AnyConnect Profiles with IPSec IKEv2 VPN	This feature allows you to configure Internet Protocol Security (IPSec)-Internet Key Exchange (IKEv2) VPN to download AnyConnect profiles over SSL, for IOS-XE headends.
MACsec Fallback Key Support	This feature introduces a fallback mechanism to re-establish the MKA session when it fails because of primary Pre-Shared Key (PSK) mismatch. This fallback mechanism can be configured by using the **mka pre-shared-key key-chain** command.
Support for Thousand Eyes Application on Routing Platforms	Cisco ThousandEyes application is a cloud-ready, enterprise network-monitoring tool that provides an end-to-end view across networks and services. This tool helps in analyzing the network performance and provides insights into the Internet and enterprise networks.
Aggregate Throughput Throttling	For throughput levels greater than 250 Mbps and Tier 2 and higher tiers, when you configure the bidirectional throughput value on the device, aggregate throughput throttling is effective. This means that traffic is throttled in an aggregate manner irrespective of the distribution of the traffic in the upstream and downstream direction. The bidirectional throughput is represented in the license PID (For example, DNA-C-**500M**-E-3Y and DNA-C-**T2**-E-3Y). The aggregate throughput is double the bidirectional throughput. For more information, see Licenses and Licensing Models.
Programmability Feature	
YANG Model Version 1.1	Cisco IOS XE Cupertino 17.8.1a uses the YANG version 1.0; however, you can download the YANG version 1.1 from GitHub at https://github.com/YangModels/ yang/tree/master/vendor/cisco/xefolder. For inquiries related to the migrate_yang_version.py script or the Cisco IOS XE YANG migration process, send an email to xe-yang-migration@cisco.com.

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.

Resolved and Open Bugs for Cisco IOS XE 17.8.1a

Resolved Bugs for Cisco IOS XE 17.8.1a

Bug ID	Headline
CSCwb23043	MACsec not working on subinterfaces using dot1q >255
CSCvz34380	Multiple Cisco Products Snort Modbus Denial of Service Vulnerability
CSCwa78020	ZBFW dropping packets as Input VPN ID set to 0 instead of 99.
CSCwa47219	Crash on ipv4_nat_get_all_mapping_stats due to NULL pointer of mapping_hash_table
CSCwa13553	QFP core due to NAT scaling issue
CSCwa15132	DMVPN over DMVPN with IPSEC - return packets are dropped with BadIpChecksum
CSCwb11389	NAT translation stops suddenly(ip nat inside doesn't work)
CSCvz98373	ZBFW : FirewallPolicy drops seen with RTSP traffic in steady state
CSCwa26412	ZBFW: OG lookups are missing from device for optimized policy
CSCvz91913	Startup config of 40Gbps not applied on reload
CSCwa51443	Incorrect check of the TCP sequence number causing return ICMP error packets to drop (ThousandEyes)
CSCwa92411	Slowness issues caused by intermittent traffic drop on ingress from GRE tunnel
CSCwa93668	Flowdb entry double free during pperx pipeline collision
CSCvz80101	Policy XML pruning without ConfD dependency
CSCvz34668	Static mapping for the hub lost on one of the spokes
CSCvt15177	Certificate Signing Request made by IOS-XE never show the Subject Alternate Name
CSCwa46760	Memory utilisation shows wrong value

Open Bugs for Cisco IOS XE 17.8.1a

Bug ID	Headline
CSCvz65764	Peer MSS value shows incorrect
CSCwb40139	Device fails to load bootstrap configuration with '@' in the admin password
CSCwb11389	NAT translation stops suddenly(ip nat inside doesn't work)
CSCwa84919	"Revocation-check crl none" does not failover
CSCwa97951	Basic feature template fails on device with TenGig interface due to negotiation auto

Bug ID	Headline
CSCwb42807	After Enforce Software Version (ZTP) completed successfully, it automatically rolled-back
CSCwb04815	NHRP process taking more CPU with ip nhrp redirect configured
CSCwa72273	ZBFW dropping return packets from Zscalar tunnel post device upgrade.
CSCwa94665	Traffic getting dropped on device when AppQoE and Umbrella DNS is configured.
CSCwa64955	Device loses control connections after installing new enterprise hardware wan edge cert
CSCwa49721	Device with firewall configured incorrectly dropping return packets when routing between VRFs
CSCwb25137	Source address translation for multicast traffic fails with route-map
CSCwb18223	SNMP v2 community name encryption problem
CSCwb16723	Traceroute not working on device with NAT
CSCwb55683	Large number of IPSec tunnel flapping occurs when underlay is restored
CSCwb12647	Device crash for stuck threads in cpp on packet processing
CSCwb24123	Registration of spoke fails with dissimilar capabilities to HUB.
CSCvz28950	DMVPN phase 2 connectivity issue between two spokes
CSCwb21645	NAT traffic gets dropped when default route changes from OMP to NAT DIA route
CSCwb01477	logging message "%IOSXE_INFRA-6-PROCPATH_CLIENT_HOG: IOS shim client 'fman stats bipc'"
CSCwa08847	ZBFW policy stops working after modifying the zone pair
CSCvw50622	Nhrp network resolution not working with link-local ipv6 address.
CSCwb29362	Evaluation of IOS-XE for OpenSSL CVE-2022-0778 and CVE-2021-4160
CSCwb32635	Daemon file is incomplete when running admin-tech
CSCwa74499	ZBFW seeing the SIP ALG incorrectly dropping traffic and resetting connection
CSCwa68540	FTP data traffic broken when UTD IPS enabled in both service VPN

ROMmon Release Requirements

Use the following table to determine the ROMmon version required for the following Catalyst 8500 models:

- C8500-12X4QC

- C8500-12X

DRAM	ROMmon version
16 GB(default)	17.2(1r)
32 GB	17.2(1r)
64 GB	17.3(2r)

Related Documentation

- Hardware Installation Guide for Catalyst 8500 Series Edge Platforms
- Smart Licensing Guide for Access and Edge Platforms
- Software Configuration Guide for Catalyst 8500 Series Edge Platforms

Communications, Services, and Additional Information

- To receive timely, relevant information from Cisco, sign up at Cisco Profile Manager.
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- To discover and browse secure, validated enterprise-class apps, products, solutions and services, visit Cisco Marketplace.
- To obtain general networking, training, and certification titles, visit Cisco Press.
- To find warranty information for a specific product or product family, access Cisco Warranty Finder.

Cisco Bug Search Tool

Cisco Bug Search Tool (BST) is a web-based tool that acts as a gateway to the Cisco bug tracking system that maintains a comprehensive list of defects and vulnerabilities in Cisco products and software. BST provides you with detailed defect information about your products and software.

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