Release Notes for Cisco Catalyst 8200 Series Edge Edge Platforms, Cisco IOS XE Bengaluru 17.4.x

First Published: 2021-02-11

About Cisco Catalyst 8200 Series Edge Platforms

The Cisco Catalyst 8200 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 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 Series Edge Platforms is 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 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 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 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 Series Edge Platforms, refer to the Cisco Catalyst 8200 Series Edge platforms datasheet.

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

Hardware and Software Features-New and Enhanced

Note Cisco IOS XE Bengaluru 17.4.1a is the first release for Cisco Catalyst 8200 Series Edge Platforms in the Cisco IOS XE Bengaluru 17.4.1a release series.

New and Changed Hardware Features

New Hardware Features

Cisco Catalyst 8200 Series Edge Platforms are available in these models:

- C8200-1N-4T

Note N=Network Interface Modue, S=Services Module, and T=Gigabit Ethernet, X=Ten Gigabit

For information on the hardware features supported on the Cisco Catalyst 8200 Series Edge Platforms, refer to the Cisco Catalyst 8200 Series Edge Platforms datasheet.

New and Changed Software Features

This section enlists the new and enhanced or modified features that are supported on the Cisco Catalyst 8200 Series Edge Platforms:

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 Series Edge Platforms. To access Cisco Feature Navigator, go to http://www.cisco.com/go/cfn.

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

Software Features

Smart Licensing Using Policy: An enhanced version of Smart Licensing, with the overarching objective of providing a licensing solution that does not interrupt the operations of your network, rather, one that enables a compliance relationship to account for the hardware and software licenses you purchase and use.

With this licensing model, you do not have to complete any licensing-specific operations, such as registering or generating keys before you start using the software and the licenses that are tied to it. Only export-controlled and enforced licenses require Cisco authorization. License usage is recorded on your device with timestamps and the required workflows can be completed at a later date.

Multiple options are available for license usage reporting – this depends on the topology you implement. You can use the Cisco Smart Licensing Utility (CSLU) Windows application, or report usage information directly to CSSM. A provision for offline reporting for air-gapped networks, where you download usage information and upload to CSSM, is also available.

Starting with this release, Smart Licensing Using Policy is automatically enabled on the device. This is also the case when you upgrade to this release. By default, your Smart Account and Virtual Account in CSSM is enabled for Smart Licensing Using Policy.

For conceptual, configuration, migration, and troubleshooting information for Smart Licensing Using Policy, see Cisco Catalyst 8300 and 8200 Series Edge Platforms Software Configuration Guide.

For a more detailed overview on Cisco Licensing, go to https://cisco.com/go/licensingguide.

Note Starting with Cisco IOS XE Bengaluru 17.4.1, 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).

Table 1: New Software Features in Release Cisco IOS XE Bengaluru 17.4.1a

Feature	Description
Change of Authorization and Trustsec	This feature utilizes Posture Assessment capabilites to validate the compliance of endpoints according to security policies of your enterprise. Identity Services Engine (ISE) Posture functions are integrated into Cisco 1100 Integrated Services Routers.
	Change of Authorization (CoA) provides a mechanism to change the attributes of an authentication,authorization, and accounting (AAA) session after it is authenticated. Identity-Based Networking Services supports change of authorization (CoA) commands for session query,reauthentication, and termination, port bounce and port shutdown, and service template activation and deactivation
Cisco DNA Center Support for Smart Licensing Using Policy	Cisco DNA Center supports Smart Licensing Using Policy functionality starting with Cisco DNA Center Release 2.2.2. The corresponding minimum required Cisco IOS XE Release for this platform is Cisco IOS XE Bengaluru 17.4.1a.
	Implement the "Connected to CSSM Through a Controller" topology to have Cisco DNA Center manage a product instance. When you do, the product instance records license usage, but it is the Cisco DNA Center that initiates communication with the product instance to retrieve and report usage to Cisco Smart Software Manager (CSSM), and returns the acknowledgement (RUM ACK).
	In order to meet reporting requirements, Cisco DNA Center provides ad hoc or on-demand reporting, as well as scheduled reporting options.
	Cisco DNA Center also provides workflows for the installation and removal of the Smart Licensing Authorization Code (SLAC) for a product instance, if applicable.
	Note On the Cisco DNA Center GUI, you can generate a SLAC only for HSECK9 licenses, and only for certain product instances. See the configuration guide for details.

Feature	Description
Consent Token Authorization Process for Dev Key Access	With the introduction of the dev-key install functionality, a subset of Cisco IOS XE platforms that support dev-key functionality are shipped only with a release public key. **Note** An image that is signed with a dev-key does not boot due to the absence of dev public key for image verification.
Dynamic Core Allocation	Platforms allow limited flexibility on how services run on the service plane cores. Dynamic core allocation allows in-service upgrade of Services, which eliminates the inactivity of compute resources. But, this requires reboot of the system to let the changes take effect.
Smart Software Manager On-Prem (SSM On-Prem) Support for Smart Licensing Using Policy	SSM On-Prem is an asset manager, which works in conjunction with CSSM. It enables you to administer products and licenses on your premises instead of having to directly connect to CSSM. Here, a product instance is connected to SSM On-Prem, and SSM On-Prem becomes the single point of interface with CSSM. The product instance can be configured to *push* the required information to SSM On-Prem. Alternatively, SSM On-Prem can be set-up to *pull* the required information from a product instance at a configurable frequency. After usage information is available in SSM On-Prem, you must synchronize the same with CSSM, to ensure that the product instance count, license count and license usage information is the same on both, CSSM and SSM On-Prem. Offline and online options are available for synchronization between CSSM and SSM On-Prem. Minimum Required SSM On-Prem Version: Version 8, Release 202102 Minimum Required Cisco IOS XE Version: Cisco IOS XE Amsterdam 17.4.1 (If a product was first introduced in a later release, that release becomes the minimum required IOS-XE version for the product.) For more information, see Smart Licensing Using Policy for Cisco Enterprise Routing Platforms**.**

Cisco Catalyst 8200 Series Edge Platforms ROMmon Compatibility Matrix

The following table lists the ROMmon releases supported in Cisco IOS XE 17.4.x releases

Table 2: Minimum and Recommended ROMmon Releases Supported on C8200-1N-4T

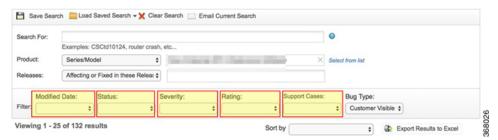| Cisco IOS XE Release	Minimum ROMmon Release Supported for IOS XE	Recommended ROMmon Release Supported for IOS XE
17.3.1	17.3(1r)	17.3(1r)

Resolved and Open Caveats

About the Cisco Bug Search Tool

Use the Cisco Bug Search Tool to access open and resolved bugs for a release.

The tool allows you to search for a specific bug ID, or for all bugs specific to a product and a release.

You can filter the search results by last modified date, bug status (open, resolved), severity, rating, and support cases.

Resolved Caveats in Cisco IOS XE Bengaluru 17.4.2

There are no resolved caveats in this release.

Open Caveats in Cisco IOS XE Bengaluru 17.4.2

Caveat ID Number	Description
CSCvw84883	DDNS feature triggers crash on IOS XE 16.X and 17.X releases due to memory corruption.

Resolved Caveats in Cisco IOS XE Bengaluru 17.4.1

There are no resolved caveats in this release.

Open Caveats in Cisco IOS XE Bengaluru 17.4.

There are no open caveats in this release.

Related Documentation

• Hardware Installation Guide for Catalyst 8200 Series Edge Platforms

- Smart Licensing Using Policy for Cisco Enterprise Routing Platforms

- Cisco Catalyst 8300 and 8200 Series Edge Platforms Software Configuration Guide