Release Notes for Cisco C9610 Series Smart Switches, Release Cisco IOS XE 17.18.x

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Cisco C9610 Series Smart Switches are the next-generation hardware designed to redefine campus switching with high port density and exceptional bandwidth capabilities. Designed to power the AI Enterprise, these switches support 25G, 100G, and 400G uplinks and are ready for 50G, future-proofing your workplace.

Look up Cisco Feature Navigator for the complete list of supported features.

Resolved issues

There are no resolved caveats in this release.

Open issues

There are no open caveats in this release.

Known issues

This section lists the limitations for this release.

- 1G transceivers are not supported on SFP+ management interfaces. Only 10G transceivers are supported on SFP+ management interfaces.

- In a chassis, do not configure a C9610-SUP-3 Supervisor Module with an existing C9610-SUP-3XL Supervisor Module or vice versa. If you do so, the supervisor module inserted later will be kept in ROMMON mode and will not be allowed to boot up.

- On Cisco C9610 Switch with C9610-SUP-3/3-XL Supervisor Modules, only 10G transceiver is supported. Transceivers lower than 10G speed are not supported with CVR/QSA.

- Hardware Limitations (Power Supply Modules):

  - Input voltage for AC power supply modules: All AC-input power supply modules in the chassis must have the same AC-input voltage level.

  - Using power supply modules of different types: When mixing AC-input and DC-input power supplies, the AC-input voltage level must be 220 VAC.

  - The switch is not designed to operate with a combination of 2000W and 3000W PSUs together in a chassis.

Compatibility

To view the software compatibility information between Cisco C9610 Series Smart Switches, Cisco Identity Services Engine, and Cisco Prime Infrastructure, go to Cisco C9000 Series Smart Switches Software Version Compatibility Matrix.

Supported hardware

This section lists the hardware support information.

Supported Cisco C9610 Series Smart Switches model numbers

The following table lists the supported switch models.

Table 1.   Cisco C9610 Series Smart Switches model numbers

Switch model	Default license level	Description	Introductory release
C9610R	Network Advantage	Cisco C9610 Smart Switch • Two redundant supervisor module capability • Eight linecard slots • Eight power supply module slots • Four fan tray modules	Cisco IOS XE 17.18.1

Supported hardware on Cisco C9610 Series Smart Switches

Table 2.   Supported hardware

Product ID	Description	Introductory release
Supervisor Modules		
C9610-SUP-3	Cisco C9610 series Supervisor 3 Module This supervisor module is supported on the C9610 chassis.	Cisco IOS XE 17.18.1
C9610-SUP-3XL	Cisco C9610 series Supervisor 3XL Module This supervisor module is supported on the C9610 chassis.	Cisco IOS XE 17.18.1
Line Cards		
C9610-LC-32CD	30 QSFP28 ports that support 100G/40G and two QSFP-DD ports that support 400G/100G/40G.	Cisco IOS XE 17.18.1
C9610-LC-40YL4CD	40 SFP56 ports of 50G/25G/10G, two QSFP56 ports of 200G/100G/40G, and two QSFP-DD ports of 400G/200G/100G/40G.	Cisco IOS XE 17.18.1
C9600-LC-48TX	48 Multigigabit Ethernet RJ45 copper ports that support 10G.	Cisco IOS XE 17.18.1
C9600-LC-40YL4CD	40 SFP56 ports of 50G/25G/10G, two QSFP56 ports of 200G/100G/40G, and two QSFP-DD ports of 400G/200G/100G/40G.	Cisco IOS XE 17.18.1
C9600X-LC-32CD	30 QSFP28 ports that support 100G/40G and two QSFP-DD ports that support 400G/200G/100G/40G.	Cisco IOS XE 17.18.1
C9600X-LC-56YL4C	56 SFP ports of 25G/10G and four QSFP28 ports of 100G/40G.	Cisco IOS XE 17.18.1

Supported optics modules

Cisco Catalyst Series Switches support a wide range of optics and the list of supported optics is updated on a regular basis. Use the [Transceiver Module Group (TMG) Compatibility Matrix](#) tool, or consult the tables at this URL for the latest transceiver module compatibility information: https://www.cisco.com/en/US/products/hw/modules/ps5455/products_device_support_tables_list.html

Supported software packages

This section provides information about the release packages associated with Cisco C9610 Series Smart Switches.

Finding the software version

The package files for the Cisco IOS XE software are stored on the system board flash device (flash:).

You can use the **show version** privileged EXEC command to see the software version that is running on your switch.

Note: Although the **show version** output always shows the software image running on the switch, the model name shown at the end of this display is the factory configuration and does not change if you upgrade the software license.

You can also use the **dir** *filesystem:* privileged EXEC command to see the directory names of other software images that you might have stored in flash memory.

Finding the software Images

Table 3.   Software images

Release	Image type	File name
Cisco IOS XE 17.18.1	CISCO9K_IOSXE	cisco9k_iosxe.17.18.01.SPA.bin
	No Payload Encryption (NPE)	cisco9k_iosxe_npe.17.18.01.SPA.bin

To download software images, visit the software downloads page: Cisco C9610 Series Smart Switches.

ROMMON versions

ROMMON, also known as the boot loader, is firmware that runs when the device is powered up or reset. It initializes the processor hardware and boots the operating system software (Cisco IOS XE software image). The ROMMON is stored on the following Serial Peripheral Interface (SPI) flash devices on your switch:

- Primary: The ROMMON stored here is the one the system boots every time the device is powered-on or reset.

- Golden: The ROMMON stored here is a backup copy. If the one in the primary is corrupted, the system automatically boots the ROMMON in the golden SPI flash device.

ROMMON upgrades may be required to resolve firmware defects, or to support new features, but there may not be new versions with every release.

Table 4.   ROMMON versions

Release	ROMMON Version
17.18.1	17.18.1r

Field-programmable gate array version upgrade

A field-programmable gate array (FPGA) is a type of programmable memory device that exists on Cisco switches. They are re-configurable logic circuits that enable the creation of specific and dedicated functions.

To check the current FPGA version for all the components on the C9610 switch, use the **show firmware version all** command.

Notes:

- Not every software release has a change in the FPGA version.

- The version change occurs as part of the regular software upgrade, and you do not have to perform any other additional steps.

Related resources

This section provides troubleshooting information, links to the product documentation, and licensing information.

Troubleshooting

For the most up-to-date, detailed troubleshooting information, see the Cisco TAC website at Support & Downloads.

Go to Product Support and select your product from the list or enter the name of your product. Look under Troubleshoot and Alerts, to find information for the problem that you are experiencing.

Accessing hidden commands

Hidden commands have always been present in Cisco IOS XE but were not equipped with CLI help. That is, entering a question mark (?) at the system prompt did not display the list of available commands. These commands were only meant to assist Cisco TAC in advanced troubleshooting and were not documented either.

Hidden commands are available under:

- Category 1—Hidden commands in privileged or User EXEC mode. Begin by entering the **service internal** command to access these commands.

- Category 2—Hidden commands in one of the configuration modes (global, interface and so on). These commands do not require the **service internal** command.

Further, the following applies to hidden commands under Category 1 and 2:

- The commands have CLI help. Enter enter a question mark (?) at the system prompt to display the list of available commands.

- **Note**: For Category 1, enter the **service internal** command before you enter the question mark; you do not have to do this for Category 2.

- The system generates a %PARSER-5-HIDDEN syslog message when a hidden command is used. For example:

  ```
  *Feb 14 10:44:37.917: %PARSER-5-HIDDEN: Warning!!! 'show processes memory old-header '
  is a hidden command.

  Use of this command is not recommended/supported and will be removed in future.
  ```

Apart from category 1 and 2, there remain internal commands displayed on the CLI, for which the system does NOT generate the %PARSER-5-HIDDEN syslog message.

Important: We recommend that you use any hidden command only under TAC supervision.

If you find that you are using a hidden command, open a TAC case for help with finding another way of collecting the same information as the hidden command (for a hidden EXEC mode command), or to configure the same functionality (for a hidden configuration mode command) using non-hidden commands.

Related documentation

For all support documentation of Cisco C9610 Series Smart Switches, visit [Cisco C9610 Series Smart Switches](#).

For information about Cisco IOS XE, visit [Cisco IOS XE](#).

For information about Cisco IOS XE releases, visit [Networking Software (IOS & NX-OS)](#).

For Cisco Validated Designs documents, visit [Cisco Validated Design Zone](#).

To locate and download MIBs for selected platforms, Cisco IOS releases, and feature sets, use Cisco MIB Locator found at [Cisco Feature Navigator](#).

Communications, services, and additional information

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Licensing

For information about licenses required for the features available on Cisco 9000 Series Smart Switches, see [Cisco Networking Subscription for Cisco C9000 Series Smart Switches](#).

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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