Release Notes for Cisco C9610 Series Smart Switches, Release Cisco IOS XE 26.1.x

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Cisco C9610 Series Smart Switches, Release Cisco IOS XE 26.1.x

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.

New software features

This section provides a brief description of the new software features introduced in Cisco IOS XE 26.1.x releases.

Software Features in Cisco IOS XE 26.1.2

There are no new software features introduced in this release.

Software Features in Cisco IOS XE 26.1.1a

Table 1. New software features for Cisco C9610 Series Smart Switches, Release Cisco IOS XE 26.1.1a

Product impact	Feature	Description
Software Reliability	Bidirectional Forwarding Detection (BFD)	BFD is a detection protocol that is designed to provide fast forwarding path failure detection times for all media types, encapsulations, topologies, and routing protocols.
Software Reliability	Cisco TrustSec Layer 2 Cisco Meta Data	Cisco TrustSec Layer 2 Cisco Meta Data (L2CMD) or Security Group Tag (SGT) inline tagging enables Cisco TrustSec to propagate security group identity information directly within Ethernet frames. This feature in turn allows network devices to enforce security policies efficiently based on the source's security group membership.
Software Reliability	Dynamic protocol switching for communication between network devices and policy servers	Network devices can now switch the transport protocols and seamlessly download the security group access control list (SGACL) policies from the policy server (ISE), without any policy persistence or data traffic issues. This feature introduces the capability to dynamically switch between RADIUS and HTTPS protocols for communication between the policy server and the network device.
Software Reliability	Network Address Translation (NAT)	Enables private IP networks using unregistered IP addresses to communicate with external networks by translating private addresses into globally routable addresses.
Software Reliability	Resilient Infrastructure	As part of the ongoing commitment to network security, this release introduces secure alternatives to legacy commands. These updates are designed to mitigate potential risks and assist in establishing a more robust and secure operational baseline. The identified insecure commands are categorized as: • Line transport: Updates to secure remote access methods. • Device server configuration: Hardening of server-side settings. • File transfer protocols: Transitioning to encrypted transfer methods. • SNMP: Enhancements to secure management traffic. • Passwords: Strengthening authentication and credential management.

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Product impact	Feature	Description
		• Miscellaneous: General security improvements for various system functions. The show system insecure configuration command introduced in Cisco IOS XE 17.18.2 release lists all insecure commands configured on the device. For all detected insecure configurations during device boot or upgrade, error messages are displayed. In Cisco IOS XE 26.1.1 release, all insecure CLI commands are blocked by default to strengthen your network infrastructure. If your environment requires the use of a legacy command, you must enable the system mode insecure command in global configuration mode. • Recommendation: Do not use insecure mode. This mode is temporary and will be removed in a future release. Identify and replace all insecure commands with their secure alternatives. • Upgrade behavior: If you upgrade to Cisco IOS XE 26.1.1 release with insecure commands already present in the running configuration, the system mode insecure command is automatically added to your configuration to prevent service disruption. For more information, refer this document Cisco C9000 Switching IOS XE – Resilient Infrastructure Playbook.
Software Reliability	LMS-signed bootloader	Introduces secure boot process based on Leighton-Micali Signature (LMS) Post-Quantum Cryptography (PQC) algorithm which is approved by National Institute of Standards and Technology (NIST).

New hardware features

This section provides a brief description of the new hardware features introduced in Cisco IOS XE 26.1.x releases.

Hardware Features in Cisco IOS XE 26.1.2

There are no new hardware features introduced in this release.

Hardware Features in Cisco IOS XE 26.1.1a

Table 2. New hardware features for Cisco C9610 Series Smart Switches, Release Cisco IOS XE 26.1.1a

Product impact	Feature	Description
Hardware Reliability	1G on Copper RJ45 ports	1G support on Copper RJ45 ports has been introduced on the Cisco C9610 Series Smart Switches. Compatible line card: C9600-LC-48TX For Copper RJ45 ports to operate at 1G speed on this line card, configure the **speed auto 1000 high-ipg** command under this line card interface.

Changes in behavior

This section provides a brief description of the behavior changes introduced in Cisco IOS XE 26.1.x releases.

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Hardware and Software Behavior Changes in Cisco IOS XE 26.1.2

There are no new behavior changes introduced in this release.

Hardware and Software Behavior Changes in Cisco IOS XE 26.1.1a

Table 3. Behavior changes for Cisco C9610 Series Smart Switches, Release Cisco IOS XE 26.1.1a

Description	Behavior changes
platform ip multicast command modified	A new **ssdp** keyword has been introduced for the **platform ip multicast** command to allow and disable SSDP packet forwarding.

Resolved issues

This section lists the resolved issues in Cisco IOS XE 26.1.x releases.

Resolved Caveats in Cisco IOS XE 26.1.2

There are no resolved caveats in this release.

Resolved Caveats in Cisco IOS XE 26.1.1a

There are no resolved caveats in this release.

Open issues

This table lists the open issues in Cisco IOS XE 26.1.x releases.

Table 4. Open issues for Cisco C9610 Series Smart Switches, Release Cisco IOS XE 26.1.x

Bug ID	Description
CSCwu03804	C9000: Randomly during operation - Interface VLAN / SVI go missing from " show run" but remain up. Configs are lost upon reload.
CSCuv03769	MOTD generates error - Log packet overrun, PC 0x12D60814
CSCwn80721	Unexpected Reboot in Process Sessmgrd
CSCwr77437	Seg Fault in HTTP CORE potentially due to SDAVC-related Corruption
CSCws80808	Loopback interface in Mgmt-intf VRF becomes unreachable via Management interface
CSCwt00058	Processes 'confd_mgrd' and 'ncsshd' crashed when enabling NETCONF
CSCwt07061	High CPU utilization caused by the DNS SRV-1 process
CSCwt09028	Netconf-yang sync failing due to illegal reference at exceed-set-dscp-transmit-table
CSCwt10857	Integer underflow in evconfd causing subsequent subscriptions to not send data
CSCwt47516	WLC crash due to corrupted length field during AAA processing
CSCwt71091	Memory leak in pubd process during CNDP connection retry loops with successful SSL/TLS handshake

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Bug ID	Description
CSCwt76906	C9K: Continuous increase in holding memory for CTS CORE
CSCwt87294	mDNS Cache-Flush behavior not consistent
CSCwt95273	Switch Crash upon SNMPv3 Polling with Type 6 Encryption Containing Special Characters
CSCwu19389	%DBAL-4-LONG_EXEC_BATCH: Switch 1 R0/0: pubd: Long exec
CSCwu58859	IOSXE crash upon upgrade when CTS configurations are present and no DNA-advantage license is configured

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 Smart Switch with C9610-SUP-3/3-XL Supervisor Modules, only 10G transceiver is supported with CVR/QSA. Transceivers lower than 10G speed are not supported with CVR/QSA.
- On Cisco C9610 Smart Switch, SFP-10G-T-X module cannot operate in 1G mode.
- 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 5. Cisco C9610 Series Smart Switches model numbers

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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 6. 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/1G, 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/1G.	Cisco IOS XE 17.18.1
C9600-LC-40YL4CD	40 SFP56 ports of 50G/25G/10G/1G, 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/100G/40G.	Cisco IOS XE 17.18.1
C9600X-LC-56YL4C	56 SFP ports of 50G/25G/10G/1G 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

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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 7. Software images

Release	Image type	File name
Cisco IOS XE 26.1.2	CISCO9K_IOSXE	cisco9k_iosxe.26.1.02.SPA.bin
	No Payload Encryption (NPE)	cisco9k_iosxe_npe.26.1.02.SPA.bin
Cisco IOS XE 26.1.1a	CISCO9K_IOSXE	cisco9k_iosxe.26.1.01a.SPA.bin
	No Payload Encryption (NPE)	cisco9k_iosxe_npe.26.1.01a.SPA.bin

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

Note: StackWise Virtual feature is not supported on an NPE image.

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 8. ROMMON versions

Release	ROMMON Version
26.1.2	26.1.1[FC4]
26.1.1a	26.1.1[FC4]

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Release	ROMMON Version
17.18.2	17.18.2r
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.

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- 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

- To receive timely, relevant information from Cisco, sign up at Cisco Profile Manager.
- To get the business results you're looking for with the technologies that matter, visit Cisco Services.
- To submit a service request, visit Cisco Support.
- To discover and browse secure, validated enterprise-class apps, products, solutions and services, visit Cisco DevNet.
- 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.

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.

Documentation feedback

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