Release Notes for Cisco Catalyst ESS9300 Embedded Series Switches, Release 17.18.x

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Cisco Catalyst ESS9300 Embedded Series Switches, Release 17.18.x

This document provides release information for the Cisco Catalyst ESS9300 Embedded series switch. It is a Small Form Factor Ruggedized 10 GigE Embedded platform for tactical, outdoor, and mobile environments. The compact design simplifies integration and offers the system integrator the ability to use the Cisco Catalyst ESS-9300-8X16T of the CURTISS-WRIGHT VPX3-623 Embedded Series Switch in a wide variety of applications. It consists of one switch card. No cooling plates are sold with the switch. It is up to the system integrator to design a thermal solution with it. The switch has a typical power consumption of 35 W.

Cisco Catalyst ESS9300 Embedded Series Switch

The Catalyst ESS9300 Embedded Series Switch is a ruggedized 10G embedded platform that is designed for embedded applications for tactical, outdoor, and mobile installations requiring low power, small size, and ruggedization.

New software features

IOS XE 17.18.4

There are no new software features in this release.

IOS XE 17.18.3

There are no new software features in this release.

IOS XE 17.18.2

There are no new software features in this release.

IOS XE 17.18.1

There are no new software features in this release.

New hardware features

IOS XE 17.18.4

There are no new hardware features in this release.

IOS XE 17.18.3

There are no new hardware features in this release.

IOS XE 17.18.2

There are no new hardware features in this release.

IOS XE 17.18.1

There are no new hardware features in this release.

Change in behavior

Notice of upcoming changes in the Cisco IOS XE 17.18.2 release and beyond

Cisco is committed to safeguarding our products and customer networks against increasingly sophisticated threat actors. As computing power and the threat landscape have evolved, some features and protocols currently in use have become vulnerable to attack. While more secure alternatives are now available, legacy protocols may still be in use in some environments.

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To improve network security, reduce the attack surface, and protect sensitive data, Cisco will begin phasing out legacy and insecure features and protocols, encouraging customers to transition to more secure alternatives. This process will be gradual and designed to minimize operational impact. The first phase begins with the Cisco IOS XE Release 17.18 train. This is part of a broader initiative to make Cisco products more secure by default and secure by design.

Starting with the Cisco IOS XE Release 17.18.2 and in future releases, Cisco software displays warning messages when configuring features or protocols that do not provide sufficient security such as those transmitting sensitive data without encryption or using outdated encryption mechanisms. Warnings also appear when security best practices are not followed, along with suggestions for secure alternatives.

This list is subject to change, but the following is a list of features and protocols that generate warnings in releases beyond the version Cisco IOS XE Release 17.18.1. The release notes for each release describe the exact changes for that release.

- **Plain-text and weak credential storage:** Type 0 (plain text), 5 (MD5), or 7 (Vigenère cipher) in configuration files.
  *Recommendation***:** Use Type 6 (AES) for reversible credentials, and Type 8 (PBKDF2-SHA-256) or Type 9 (Scrypt) for non-reversible credentials.
- **SSHv1**
  Recommendation: Use SSHv2.
- **SNMPv1 and SNMPv2, or SNMPv3 without authentication and encryption**
  Recommendation: Use SNMPv3 with authentication and encryption (authPriv).
- **MD5 (authentication) and 3DES (encryption) in SNMPv3**
  Recommendation: Use SHA1 or, preferably, SHA2 for authentication, and AES for encryption.
- **IP source routing based on IP header options**
  Recommendation: Do not use this legacy feature.
- **TLS 1.0 and TLS 1.1**
  Recommendation: Use TLS 1.2 or later.
- **TLS ciphers using SHA1 for digital signatures**
  Recommendation: Use ciphers with SHA256 or stronger digital signatures.
- **HTTP**
  Recommendation: Use HTTPS.
- **Telnet**
  Recommendation: Use SSH for remote access.
- **FTP and TFTP**
  Recommendation: Use SFTP or HTTPS for file transfers.
- **On-Demand Routing (ODR)**
  Recommendation: Use a standard routing protocol in place of CDP-based routing information exchange.
- **BootP server**
  Recommendation: Use DHCP or secure boot features such as Secure ZTP.
- **TCP and UDP small servers (echo, chargen, discard, daytime)**
  Recommendation: Do not use these services on network devices.

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- **IP finger**
  Recommendation: Do not use this protocol on network devices.
- **NTP control messages**
  Recommendation: Do not use this feature.
- **TACACS+ using pre-shared keys and MD5**
  Recommendation: Use TACACS+ over TLS 1.3, introduced in Cisco IOS XE 17.18.1.

Cisco is committed to supporting customers through this transition. Subsequent releases in the Cisco IOS XE 17.18 train continue to support these features but display warnings if they are used. Future release trains may impose additional restrictions on these features which will be communicated through release notes. For more information, see Resilient Infrastructure IOS XE Security Warnings Reference.

Resolved issues

This section lists the resolved issues in this release.

IOS XE 17.18.4

There are no resolved caveats in this release.

IOS XE 17.18.3

Table 1. Resolved issues in release 17.18.3

Bug ID	Description
CSCws05823	Port VlanID is missing from show ptp lan port on changing native vlan configuration
CSCws48556	Follow-up meessage stops transmitting from IE93xx
CSCws18675	IE-9310-26S2C: Express setup LED glows amber
CSCwt30970	Interfaces on C9300-24S with GLC-GE-100FX fail to come up after power failure.
CSCwr78633	100mb SFP not in sync with 1g SFP

IOS XE 17.18.2

There are no resolved caveats in this release.

IOS XE 17.18.1

Table 2. Resolved issues in release 17.18.1

Bug ID	Description
CSCwo36285	IE9K Unexpected Reload due to Memory Exhaustion in timingd when Grandmaster flaps Occur.
CSCwo25497	Two GM follow_up messages is not sending properly from IE9300.

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Open issues

This section lists the open issues in this specific software release.

Note: This software release may contain open bugs first identified in other releases. To see additional information, click the bug ID to access the Cisco Bug Search Tool.

IOS XE 17.18.4

Table 3. Open issues in release 17.18.4

Bug ID	Description
CSCwt45804	Mem leaks in timingd, followed by crash with unsupported PTP over Port channel configured on ie9k
CSCwu29126	IE9300 - ALT port failing to block traffic, causing network loops in REP ring
CSCwt64311	IE9K/IE3505: Padding is not working correctly with vlan tag when PRP is enabled

IOS XE 17.18.3

There are no open issues in this release.

IOS XE 17.18.2

There are no open caveats in this release.

IOS XE 17.18.1

Table 4. Open issues in release 17.18.1

Bug ID	Description
CSCwp65194	Incomplete SNMPWALK of entSensorValue data retrieval for SFP modules on IE-9320-26S2C-A switches

Known issues

There are no known issues in this release.

Compatibility

SSH Algorithms for Common Criteria Certification Limitation

Starting from Cisco IOS XE Release 17.10, the following Key Exchange and MAC algorithms are removed from the default list:

- Key Exchange algorithm:
  - diffie-hellman-group14-sha1
- MAC algorithms:
  - hmac-sha1
  - hmac-sha2-256
  - hmac-sha2-512

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Note: You can use the **ip ssh server algorithm kex** command to configure the Key Exchange algorithm and the **ip ssh server algorithm mac** command to configure the MAC algorithms.

Table 5. Hardware feature mapping between Cisco ESS 9300-10X-E and Cisco ESS-9300-8X16T of the Curtiss-Wright VPX3-623:

Category	Feature	Cisco ESS-9300-10X-E	Cisco ESS-9300-8X16T of the Curtiss-Wright VPX3-623
Hardware	Single board	Yes	Yes
	Small form-factor with mezzanine card	Supported with 4.595 in.(H) x 2.904 in.(W)	Supported with 5.1 in.(H) x 2.9 in.(W)
	Ethernet management port	Optional	Not supported
	Optical ports	10X10 GE optical ports with Enhanced Small Form-Factor Pluggable (SFP+).	• 8x10GE interfaces. By default, 2x10GE interfaces are configured in backplane mode and 6x10GE interfaces in the optical mode. • 10X1 GE Copper ports
	RS-232 console	Supported	Supported
	USB console	Supported	Not supported
	Common +3.3VDC and +5VDC power inputs	Supported	Supported
	Low power—35W (typical)	Supported	Supported
	ARM Quad-Core A53	Supported	Supported
	Alarms	• Two—input • One— output	• Four—input • One— output
	4GB DDR4 DRAM with ECC	Supported	Supported
	Eight GB onboard eMMC flash storage (2.5 GB usable space).	Supported	Supported
	Input/Output	• SD-cards socket • Power input • RJ-45 (RS-232) console • Micro-USB console • USB-A host port	• Power input • RJ-45 (RS-232) console • USB-A host port
Software	IOS XE, Network Essentials and Network Advantage	Supported	Supported

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Category	Feature	Cisco ESS-9300-10X-E	Cisco ESS-9300-8X16T of the Curtiss-Wright VPX3-623
Industrial temperature	-40° C to +85° C	Supported	Supported

Refer to the Cisco IOS XE Migration Guide for IIoT Switches for the latest information about upgrading and downgrading switch software for Cisco Catalyst ESS9300 Series Switches, Release 17.18.x.

Supported software packages

Finding the Software Version

- The package files for Cisco IOS XE software can be found on the system board's internal flash memory device (flash:) or an external USB, depending on the device configuration.
- 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 names and versions of other software images that you might have stored in flash memory.

Software Images for Cisco IOS XE 17.18.x

This table provides the filename for the IOS XE 17.18.x software image for Cisco Catalyst ESS-9300-8X16T of the CURTISS-WRIGHT VPX3-623 Embedded Series Switches.

Table 6. Software package for Cisco Catalyst ESS-9300-8X16T of the CURTISS-WRIGHT VPX3-623 Embedded Series Switches, release 17.18.x

Release	Image Type	Filename	Switch Models
Cisco IOS XE.17.18.1	Universal	ie9k_iosxe.17.18.01.SPA.bin	Cisco Catalyst ESS-9300-10X-E Cisco Catalyst ESS-9300-8X16T of the CURTISS-WRIGHT VPX3-623 Embedded Series Switches
Cisco IOS XE.17.18.2	Universal	ie9k_iosxe.17.18.02.SPA.bin	Cisco Catalyst ESS-9300-10X-E Cisco Catalyst ESS-9300-8X16T of the CURTISS-WRIGHT VPX3-623 Embedded Series Switches
Cisco IOS XE.17.18.3	Universal	ie9k_iosxe.17.18.03.SPA.bin	Cisco Catalyst ESS-9300-10X-E Cisco Catalyst ESS-9300-8X16T of the CURTISS-WRIGHT VPX3-623 Embedded Series Switches

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Release	Image Type	Filename	Switch Models
Cisco IOS XE.17.18.4	Universal	ie9k_iosxe.17.18.04.SPA.bin	Cisco Catalyst ESS-9300-10X-E Cisco Catalyst ESS-9300-8X16T of the CURTISS-WRIGHT VPX3-623 Embedded Series Switches

Software Installation Options

This table lists the options for the **install** command for the Cisco Catalyst ESS-9300-8X16T of the CURTISS-WRIGHT VPX3-623 Embedded Series Switch.

To install and activate the specified file, and to commit changes to be persistent across reloads, enter the following command: **install add file filename [activate commit]**

Table 7. Summary of software installation commands for install mode

Command	Description
abort	Abort the current install operation.
activate	Activate an installed package.
add	Install a package file to the system.
auto-abort-timer	Install auto-abort-timer.
auto-upgrade	Initiate software auto-upgrade on all incompatible switches.
commit	Commit the changes to the load path.
deactivate	Deactivate an install package.
label	Add a label name to any installation point.
remove	Remove installed packages.
rollback	Rollback to a previous installation point.

Related resources

Table 8. Additional content for Cisco Catalyst ESS-9300-8X16T of the CURTISS-WRIGHT VPX3-623 Embedded Series Switch, Release 17.18.x

Document	Description
Cisco IOS XE	Provides information about Cisco IOS XE.
Cisco Catalyst ESS-9300-8X16T of the CURTISS-WRIGHT VPX3-623 Embedded Series Switches	Provides information about Cisco Catalyst ESS-9300-8X16T of the CURTISS-WRIGHT VPX3-623 Embedded Series Switches.

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Document	Description
Cisco Validated Design documents	Provides Cisco-validated designs.
Cisco MIB Locator	Provides tools for locating and downloading MIBs.
Cisco Profile Manager	To receive timely, relevant information from Cisco, sign up here.
Cisco Services	Provides services that help you deploy, manage, optimize, and secure your Cisco technologies to achieve your desired business outcomes.
Cisco Support	You can submit a service request here.
Cisco DevNet	Enables you to discover and browse secure, validated, enterprise-class applications, products, solutions, and services.
Cisco Press	Provides general networking, training, and certification titles.
Cisco Warranty Finder	Provides warranty information for a specific product or product family.
Cisco support community	You can ask and answer questions, share suggestions, and collaborate with your peers.
Cisco TAC	Provides the most up-to-date, detailed troubleshooting information. 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.
Cisco Feature Navigator	Provides platform support details and license level information for features. The CFN also has a tab that provides a MIB Locator.
Documentation Feedback	To provide feedback about Cisco technical documentation, use the feedback form available in the right pane of every online document.
licenses	You can find information about the licensing packages for features here.

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