Release Notes for Cisco ESR 6300 Router, IOS XE 17.18.x

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Cisco ESR6300 Router, IOS XE 17.18.x

This release notes document provides information about the new features, resolved and open issues, supported software packages and information on how to obtain support and documentation.

New software features

IOS XE 17.18.4

There are no new features introduced in 17.18.4 release.

IOS XE 17.18.3

There are no features introduced in 17.18.3 release.

IOS XE 17.18.2

Table 1. New software features for Cisco ESR6300 Router, IOS XE 17.18.2

Product Impact	Feature	Description
Security	Resilient Infrastructure	Starting with the Cisco IOS XE 17.18.2 release and in future releases, Cisco software will display 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protocols that do not provide sufficient security such as those transmitting sensitive data without encryption or using outdated encryption mechanisms.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 will 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 are planned to generate warnings in releases beyond the version Cisco IOS XE 17.18.1. Release notes for each release will describe 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**

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Product Impact	Feature	Description
		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. • **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 release Cisco IOS XE 17.18.1.
Ease of Use	Common HSEC	You can now manage HSEC licenses for your IR platforms using the same common DNA HSEC entitlement as Enterprise Network (EN) platforms with the Common HSEC License feature. Previously, Cisco Industrial Routers used device-specific HSEC licenses, which prevented direct installation and management through Cisco SD-WAN (vManage). This enhancement streamlines license management for your IR devices within an SD-WAN environment.

IOS XE 17.18.1a

There are no new features introduced in 17.18.1a release.

New hardware features

IOS XE 17.18.4

There are no new features introduced in 17.18.4 release.

IOS XE 17.18.3

There are no features introduced in 17.18.3 release.

IOS XE 17.18.2

Table 2. New hardware feature for Cisco ESR6300 Router, IOS XE 17.18.2

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Product Impact	Feature	Description
Higher performance	P-5GS6-R16SA-GL support	The P-5GS6-R16SA-GL Pluggable Module is supported on ESR6300 routers.

IOS XE 17.18.1a

There are no new features introduced in 17.18.1a release.

Change in behavior

There are no behavior changes in this release.

Resolved issues

You can also access the resolved caveats for this release through the Cisco Bug Search Tool.

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

This table lists the resolved issues in this specific software release.

IOS XE 17.18.4

There are no resolved issues in this release.

IOS XE 17.18.3

There are no resolved issues in this release.

IOS XE 17.18.2

Table 3. Resolved issues for Cisco ESR6300 Router, IOS XE 17.18.2

Bug ID	Description
CSCwr59377	Xchange6300: USB0 port not detected

IOS XE 17.18.1a

Table 4. Resolved issues for Cisco ESR6300 Router, IOS XE 17.18.1a

Bug ID	Description
CSCwo24897	ESR6300 with SLR does not install 2G or uncapped license after reload.
CSCwn52402	In the platform, ESR-6300-NCP-K9, we may lose the configuration after removing the SLA trustpoint.

Open issues

IOS XE 17.18.4

There are no open issues in this release.

IOS XE 17.18.3

There are no open issues in this release.

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IOS XE 17.18.2

There are no open issues in this release.

IOS XE 17.18.1a

There are no open issues in this release.

Known issues

This table lists the limitations for this release.

Table 5. Known issues for Cisco ESR6300 Router, IOS XE 17.18.x

Feature	Description
Smart Licensing Using Policy	Starting with Cisco IOS XE 17.6.1, Smart Licensing Using Policy has changed how device information is displayed. When you configure a hostname for a product instance or device, only the Unique Device Identifier (UDI) is shown. The hostname is no longer displayed in licensing utilities and user interfaces as it was in previous releases. This change does not affect any licensing functionality, and there is no workaround for this limitation. The licensing utilities and user interfaces affected by this change are: • Cisco Smart Software Manager (CSSM) • Cisco Smart License Utility (CSLU) • Smart Software Manager On-Prem (SSM On-Prem) Example of revised content: If you previously saw the device hostname in CSSM, you will now only see the UDI after upgrading to Cisco IOS XE 17.6.1 or later. Note: This is a display change only and does not impact license operations or activation.

Compatibility

This section lists compatibility information on Cellular Module Modem Firmware, OEM/PRI and it lists the latest modem firmware available for each of the modems used by the Cisco IoT routers. See the Cisco Firmware Upgrade Guide for 4G LTE and 5G Cellular Modems for upgrade instructions.

Cisco IOS XE updates do not automatically update modem firmware. You should manually check and update all modems to the latest firmware version, including any related PRI and/or OEMPRI components. Refer to the following table for the most up-to-date information.

Table 6. Cellular Module Modem Firmware for Cisco ESR6300 Router, IOS XE 17.18.x

Cellular Module	Modem and Firmware version	Software download link
P-LTE-MNA	WP7610 02.37.03.05	https://software.cisco.com/download/home/286324942/type

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Cellular Module	Modem and Firmware version	Software download link
P-LTE-LA	EM7430 2.38.00.00	Generic: https://software.cisco.com/download/home/286308413/type Australia Telstra: https://software.cisco.com/download/home/286311403/type Japan: https://software.cisco.com/download/home/286311416/type
P-LTEA-EA	EM7455 02.37.0x.00	Generic: https://software.cisco.com/download/home/286308426/type Europe: https://software.cisco.com/download/home/286308426/type Canada: https://software.cisco.com/download/home/286319713/type North America ATT: https://software.cisco.com/download/home/286311442/type North American Sprint: https://software.cisco.com/download/home/286311455/type North America Verizon: https://software.cisco.com/download/home/286311429/type
P-LTEAP18-GL	LM960 32.00.1x9	Generic: https://software.cisco.com/download/home/286324996/type North America: https://software.cisco.com/download/home/286324947/type
P-5GS6-GL	FN980 38.03.0202	https://software.cisco.com/download/home/286329300/type

Supported software packages

This section provides information about the release packages associated with Cisco ESR6300 Router.

For latest software downloads, see the Software Download page.

Table 7. Software packages for Cisco ESR6300 Router, IOS XE 17.18.x

Release	Router	Image type	Filename
Cisco IOS XE 17.18.4	ESR6300	Universal	c6300-universalk9.17.18.04.SPA.bin
Cisco IOS XE 17.18.3	ESR6300	Universal	c6300-universalk9.17.18.03.SPA.bin

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Release	Router	Image type	Filename
Cisco IOS XE 17.18.2	ESR6300	Universal	c6300-universalk9.17.18.02.SPA.bin
Cisco IOS XE 17.18.1a	ESR6300	Universal	c6300-universalk9.17.18.01a.SPA.bin

Port Naming Conventions

This section shows the names of the ports on Cisco ESR6300 Series routers.

Table 8. Naming Conventions on Cisco ESR6300 Series Routers

Port	Naming Convention
Gigabit Ethernet combo port WAN Layer3	GigabitEthernet0/0/0 GigabitEthernet0/0/1
Gigabit Ethernet LAN Layer 2 ports	GigabitEthernet0/1/0 GigabitEthernet0/1/1 GigabitEthernet0/1/2 GigabitEthernet0/1/3
Cellular Interface	Cellular0/3/0 Cellular0/3/1
USB Port	usbflash0: (IOS and ROMMON)

Related resources

Table 9. Related resources

Document	Description
Cisco IOS XE	Provides information about the different products supported by Cisco IOS XE.
Cisco ESR6300 Embedded Series Router	Provides documentation for the specified routers.
Cisco Industrial Routers and Industrial Wireless Access Points Antenna Guide	Provides the descriptions and installation instructions for wireless antennas supported on the Cisco Industrial Series Routers and Industrial Wireless Access Points.
Cisco IOS XE 17.x	Provides Cisco IOS XE 17 products and status information.
Cisco SD-WAN	Provides documentation for Cisco SD-WAN.
Cisco Industrial IoT Licensing page	Provides information about Smart Licensing Using Policy solutions and their deployment on Cisco IOS XE routers.

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Document	Description
Cisco IoT Field Network Director	Provides documentation for Cisco IoT Field Network Director.
Cisco Industrial Network Director	Provides information about Cisco Industrial Network Director.
Cisco Support	You can submit a service request here.
Cisco TAC	Provides most up-to-date detailed troubleshooting information.
Cisco Feature Navigator	Use CFN to browse Cisco products and find relevant features and licenses. It allows you to compare platforms, determine common features between products, and identify unique product features. The CFN also has a tab that provides a MIB Locator.

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