



Release Notes for Cisco ESR 6300 Router, IOS-XE 26.1.x

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Cisco ESR6300 Embedded Series Router, IOS-XE 26.1.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

This section provides a brief description of the new software features introduced in this release.

IOS-XE 26.1.1

Table 1. New software features for Cisco Catalyst Rugged Series Routers, IOS-XE 26.1.1

Product Impact	Feature	Description
Security	Resilient Infrastructure	<p>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.</p> <p>The identified insecure commands are categorized as:</p> <ul style="list-style-type: none">• 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.• Miscellaneous: General security improvements for various system functions. <p>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.</p> <p>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.</p> <ul style="list-style-type: none">• 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 <p>For more details, see Resilient Infrastructure IOS XE Security Warnings Reference</p>

New hardware features

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There are no new hardware features introduced in 26.1.1 release.

Change in behavior

Syslog Warning on Reload for SSH Hostkeys: After a device reload, you may observe a syslog warning indicating insufficient key length for SSH hostkeys, even if a strong RSA or EC key is configured.

Note:

- There is no change in behavior for greenfield deployments, as the feature is disabled by default. However, if insecure commands are executed, the system automatically enables insecure mode.
- In the syslog warning message “*crypto key generate rsa modulus <modulus-size> label <label-name>*”, the *<modulus-size>* and *<label-name>* represent the actual modulus size and label configured on the device.
- The SSH keypair association configuration is done using the command: **ip ssh ec|rsa <keypair-name>**, where *<keypair-name>* corresponds to the keypair name configured on the device.

Example:

RSA

Warning Observed: INSECURE DYNAMIC WARNING - Module: SSH.

Command: **crypto key generate rsa modulus <modulus-size> label <label-name>**.

Reason: An SSH hostkey has been provisioned on the device with insufficient key length.

Remediation: Please provision an SSH RSA hostkey with minimum modulus size of 3072 bits for enhanced security.

Submode: exec.

Parent CLI: Not Applicable.

EC

Warning Observed: INSECURE DYNAMIC WARNING - Module: SSH.

Command: **crypto key generate ec keysize <modulus-size> label <label-name>**.

Reason: An SSH hostkey has been provisioned on the device with insufficient key length.

Remediation: Please provision an SSH EC hostkey with minimum modulus size of 384 bits for enhanced security.

Submode: exec.

Parent CLI: Not Applicable.

Ignore these warnings if you have already configured a strong key. The system applies the SSH keypair association (**ip ssh ec/rsa keypair-name**) after the boot process.

Once this configuration is active, SSH will use the correct key for secure connections.

Resolved issues

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There are no resolved issues in this release.

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](#).

Open issues

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There are no open issues in this release.

Known issues

IOS-XE 26.1.1

There are no known issues in this release.

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 2. Cellular Module Modem Firmware for Cisco ESR 6300 Router, IOS-XE 26.1.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
P-LTE-LA	Generic and Japan: EM7430 2.38.00.00 Australia Telstra: EM7430 02.33.03.00	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	Generic: EM7455 02.37.0x.00 Europe: EM7455 02.39.00.00	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

Cellular Module	Modem and Firmware version	Software download link
	Canada, North America ATT, North American Sprint: EM7455 02.32.11.00 North America Verizon: EM7455 02.33.03.00	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/
P-5GS6-R16SA-GL	EM9293 02.17.08.00	https://software.cisco.com/download/home/286334597/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 3. Software packages for Cisco ESR6300 Router, IOS-XE 26.1.x

Image type	Filename
Universal	c6300-universalk9.26.01.01.SPA.bin

Related resources

Table 4. Related resources

Document	Description
Cisco IOS-XE	Provides products supported by Cisco IOS-XE.
Cisco ESR6300 Embedded Series Router Cisco Industrial Routers and Industrial Wireless Access	Provides documentation for the specified routers.

Document	Description
Points Antenna Guide Cisco IOS-XE 17.x Cisco SD-WAN Cisco IoT Field Network Director Cisco Industrial Network Director	
Cisco Industrial IoT Licensing page	Provides information about Smart Licensing Using Policy solutions and their deployment on IOS-XE routers.
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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