

Release Notes for Cisco ESR 6300 Router - (Cisco IOS XE 17.9.5)

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Introduction to this Document

This Release Notes document provides information about the Cisco ESR6300 Embedded Series Router running Cisco IOS XE 17.9.5.

This document describes the new features, limitations, troubleshooting, besides providing recommended configurations, caveats, and information on how to obtain support and documentation.



Note The documentation set for this product strives to use bias-free language. For purposes of this documentation set, bias-free is defined as language that does not imply discrimination based on age, disability, gender, racial identity, ethnic identity, sexual orientation, socioeconomic status, and intersectionality. Exceptions may be present in the documentation due to language that is hardcoded in the user interfaces of the product software, language used based on RFP documentation, or language that is used by a referenced third-party product.

Cisco ESR6300 Embedded Series Router



The ESR6300 is a small form factor embedded router module with a board size of 3.0 in. x 3.775 in. (76.2 mm x 95.885 mm).

The more compact design simplifies integration, and offers system integrators the ability to use the Cisco ESR6300 in a wide variety of embedded applications. The ESR module is available with a Cisco-designed cooling plate customized to the ESR, as well as without the cooling plate for system integrators who want to design their own custom thermal solution.

There are two ESR6300 SKUs:

- ESR-6300-NCP-K9: Embedded Router Board without a cooling plate (NCP = No Cooling Plate)
- ESR-6300-CON-K9: Embedded Router Board without a cooling plate (NCP = No Cooling Plate)

Both of the SKUs offer the following port and module interfaces:

- Four GE LAN ports

- Two combo GE WAN ports
- One USB 3.0 port
- One mSATA module interface

Interface Naming Conventions

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
USB Port	usbflash0: (IOS and rommon)
Console Port	Line console 0

Software Images for Cisco IOS XE Release 17.9.5



Note You must have a Cisco.com account to download the software.

Image Type	Filename
Universal	c6300-universalk9.17.09.05.SPA.bin

The latest software downloads for the routers can be found at:

<https://software.cisco.com/download/home/286323433>

New Features in Cisco IOS XE 17.9.5

There are no new features in this release.

Related Documentation

Cisco ESR6300 Embedded Series Router

[ESR6300 documentation landing page](#)

Product Independent Documentation[Cisco Industrial Routers and Industrial Wireless Access Points Antenna Guide](#)[Cisco IOS XE 17.x](#)[Cisco SD-WAN](#)[Cisco IoT Field Network Director](#)[Cisco Industrial Network Director](#)

Known Limitations

This release has the following limitations or deviations from expected behavior. These limitations are listed below by router type.

Smart Licensing

Starting with Cisco IOS XE 17.6.1, with the introduction of Smart Licensing Using Policy, even if you configure a hostname for a product instance or device, only the Unique Device Identifier (UDI) is displayed. This change in the display can be observed in all licensing utilities and user interfaces where the hostname was displayed in earlier releases. It does not affect any licensing functionality. There is no workaround for this limitation.

The licensing utilities and user interfaces that are affected by this limitation include only the following: Cisco Smart Software Manager (CSSM), Cisco Smart License Utility (CSLU), and Smart Software Manager On-Prem (SSM On-Prem).

IOx on the ESR6300

IOx development is not supported on the ESR6300. While this is platform independent code, it is unsupported and untested on this device.

Caveats

Caveats describe unexpected behavior in Cisco IOS XE releases. Caveats listed as open in a prior release are carried forward to the next release as either open or resolved.

The Cisco [Bug Search Tool](#) (BST) is a gateway to the Cisco bug-tracking system, which maintains a comprehensive list of defects and vulnerabilities in Cisco products and software. The BST provides you with detailed defect information about your products and software.

Open Caveats in Cisco IOS XE 17.9.5

To view the details of a caveat, click on the identifier.

Identifier	Description
CSCwf43158	Console access slow, truncated outputs
CSCwe12652	Incorrect return MIB for ciscoWanCellExtMIB and ciscoWan3gMIB

Resolved Caveats in Cisco IOS XE 17.9.5

To view the details of a caveat, click on the identifier.

Identifier	Description
CSCwf30344	ESR6300: combo port media-type rj45 is going down at some interval
CSCwf36225	ESR6300: RJ45 interface is going down when we change auto negotiation

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