cisco

Release Notes for Cisco Catalyst IR1101 and Cisco ESR 6300 Routers - (Cisco IOS XE 17.3.8a)

First Published: 2023-10-30

Last Modified: 2023-10-30

Introduction to this Document

This Release Notes document provides information about the Cisco Catalyst IR1101 Rugged Series Routers and Cisco ESR6300 Embedded Series Routers running Cisco IOS XE 17.3.8a.

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 Catalyst IR1101 Rugged Series Router

The Cisco Catalyst IR1101 Rugged Series Router is a next-generation modular industrial router, which has a base platform with additional pluggable modules that can be added. The pluggable modules provide the flexibility of adding different interfaces to the IR1101 platform, for example, a cellular module, which provides Fourth-Generation Long-Term Evolution (4G LTE) cellular networks and Third-Generation (3G) cellular networks.

The IR1101 also has an expansion module that adds key capabilities to the IR1101, such as mSATA SSD FRU, Ethernet SFP port, and digital GPIO connections. The expansion module also makes the IR1101 dual LTE capable, with one LTE module in the base and the other LTE module in the expansion module.

Note   The IR-1100-SP expansion module is the same as the IR-1100-SPMI module, without the digital I/O and mSATA components.

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

Cisco Catalyst IR1101 Rugged Series Router

Port	Naming Convention
Gigabit Ethernet combo port	GigabitEthernet0/0/0
Gigabit Ethernet SFP port on Expansion Module	GigabitEthernet0/0/5
Fast Ethernet ports	FastEthernet0/0/1-0/0/4
Cellular Interface on IR1101 Base	Cellular 0/1/0 and Cellular 0/1/1
Cellular Interface on Expansion Module	Cellular 0/3/0 and Cellular 0/3/1
Asynchronous Serial Interface	Async0/2/0
USB	usbflash0:
mSATA	msata

Port	Naming Convention
IR1101 Base Unit Alarm input	alarm contact 0
GPIO on Expansion Module	alarm contact 1-4

Cisco ESR6300 Embedded Series Router

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 17.3.8a

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

Table 1: Software Images for Cisco IOS-XE, Release 17.3.8a

Router	Image Type	Filename
IR1101	Universal	ir1101-universalk9.17.03.08a.SPA.bin
	NPE	ir1101-universal9_npe.17.03.08a.SPA.bin
ESR6300	Universal	c6300-universalk9.17.03.08a.SPA.bin

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

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

Click the link corresponding to your device to take you to the specific software you are looking for.

New Features in Cisco IOS XE 17.3.8a

There are no new features in this release. This release provides a fix for CSCwh87343: Cisco IOS XE Software Web UI Privilege Escalation Vulnerability. For more information, see cisco-sa-iosxe-webui-privesc-j22SaA4z.

Related Documentation

Cisco Catalyst IR1101 Rugged Series Router

IR1101 documentation landing page

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).

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 17.3.8a

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

Identifier	Description	Platform
CSCwc19085	Excessive boot time caused by multiple NIM authentication failures.	IR1101 ESR6300
CSCwc85694	The command "no login block-for 60 attempts 3 within 30" is removed after reloads.	IR1101 ESR6300

Resolved Caveats in Cisco IOS XE 17.3.8a

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

Identifier	Description	Platform
CSCwh87343	Cisco IOS XE Software Web UI Privilege Escalation Vulnerability	All IIoT Routers

Communications, Services, and Additional Information

- To receive timely, relevant information from Cisco, sign up at Cisco Profile Manager.

- To get the business impact 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.

Documentation Feedback

To provide feedback about Cisco technical documentation, use the feedback form available in the right pane of every online document.

Abbreviated Cisco Trademarks

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: https://www.cisco.com/c/en/us/about/legal/trademarks.html. Third-party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1721R)