

Release Notes for Cisco Catalyst IR1101, IR1800, IR8140, and IR8340, Routers - (Cisco IOS XE Cupertino 17.9.7)

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Introduction to this Document

This Release Notes document provides information about the Cisco Catalyst IR1101 Rugged Series Routers, Cisco Catalyst IR1800 Rugged Series Routers, Cisco Catalyst IR8140 Heavy Duty Series Routers, and Cisco Catalyst IR8340 Rugged Series Routers running Cisco IOS XE 17.9.7.

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

Software Images for Cisco IOS XE Release 17.9.7



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

Cisco IOS XE Release 17.9.7 includes the following Cisco images.

Table 1: Software Images for Cisco IOS-XE, Release 17.9.7

Router	Image Type	Filename
IR1101	Universal	ir1101-universalk9.17.09.07.SPA.bin
	NPE	ir1101-universal9_npe.17.09.07.SPA.bin
IR1800	Universal	IR1800-universalk9.17.09.07.SPA.bin
	NPE	IR1800-universal9_npe.17.09.07.SPA.bin
IR8140	Universal	IR8100-universalk9.17.09.07.SPA.bin
	NPE	IR8100-universal9_npe.17.09.07.SPA.bin
IR8340	Universal	IR8340-universalk9.17.09.07.SPA.bin
	NPE	IR8340-universal9_npe.17.09.07.SPA.bin

The most recent software updates for routers are available on the [Software Downloads](#) page. Choose the product associated with your specific device to access the corresponding software.

New Features in Cisco IOS XE 17.9.7

There are no new features in this software release.

Related Documentation

Cisco Catalyst IR1101 Rugged Series Router

[IR1101 documentation landing page](#)

Cisco Catalyst IR1800 Rugged Series Router

[IR1800 documentation landing page](#)

Cisco Catalyst IR8140 Heavy Duty Series Router

[IR8100 documentation landing page](#)

Cisco Catalyst IR8340 Rugged Series Router

[IR8340 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

Smart Licensing Using Policy

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).

Config register change issue with service password recovery update

When service password recovery is disabled, then the config register cannot be changed and will be stuck at 0x01. This issue was found on the IR1101 Router. For additional information see the tech note [Understand Configuration Register Usage on all Routers](#).

Expansion Module on the IR1101

The expansion module IR1101 does not support +1500 MT size on LAN interfaces. See this [Caveat](#) for details.

Standalone MAC Authentication Bypass (MAB) Limitation

Standalone MAC Authentication Bypass (MAB) is an authentication method that grants network access to specific MAC addresses regardless of 802.1X capability or credentials.

Refer to the following table for details:

Details	Release Affected	Release Fixed
MAB/Dot1x may not work if the global type-6 encryption setting is enabled.	17.4.X 17.5.X	17.3.5
If users still want to use MAB/Dot1x, they should disable the type-6 encryption and enable type-7 encryption.	17.6.1 17.6.2 17.7.1	Fixed in these future releases: 17.6.3 17.7.2 17.8.1 and later.
dACL and device-tracking features are not supported on the IR1101 due to a hardware limitation. dACL is supported on the IR1800 series. Therefore, features such as MAB and Dot1x should not be used with the optional dACL/device-tracking enabled.	Note Occurs in all releases.	Hardware limitation, no software fix available.

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 17.9.7

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

Identifier	Description	Platform
CSCwm67323	IR8140: Intermittent failure to acquire GPS coordinates	IR8140
CSCwn60186	IR8340 / XE 17.9 / onboard G0/0/0 RJ45 WAN port flaps when removing "media-type rj45" config	IR8340

Resolved Caveats in Cisco IOS XE 17.9.7

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

Identifier	Description	Platform
CSCwn16197	IR1101 fails to boot when cellular modules are inserted/Unable to ping through cellular interface	IR1101
CSCwm40611	IR8340: Serial interface snmp query is failing after enabled "physical-layer async"	IR8340

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