Release Notes for Cisco Catalyst IR1101, IR1800, IR8140, and IR8340 Routers - Cisco IOS XE 17.15.x

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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 17.15.x .

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

Product References

For more information about Cisco Catalyst IR1101, IR1800, IR8140, and IR8340 Routers, see:

- Cisco Catalyst IR1101 Rugged Series Router Data Sheet
- Cisco Catalyst IR1800 Rugged Series Routers Data Sheet
- Cisco Catalyst IR8140 Heavy Duty Series Router
- Cisco Catalyst IR8340 Rugged Series Router Data Sheet

New Features in Cisco IOS XE 17.15.x

This table lists the new features in this release and the devices they are introduced on in this release.

There are no new features introduced in **Cisco IOS XE 17.15.6**.

There are no new features introduced in **Cisco IOS XE 17.15.5a**.

There are no new features introduced in **Cisco IOS XE 17.15.4**.

There are no new features introduced in **Cisco IOS XE 17.15.3**.

Table 1: New Features in Cisco IOS XE 17.15.2c

Feature Name	License Level	Description	Supported Devices	Related Document
P-5GS6-R16SA-GL	Network Essentials	The 5G Sub-6 GHz Pluggable Interface Modules offer 5G capability to the IoT Industrial Router family.	IR1800	Cellular Pluggable Interface Module Configuration Guide

Table 2: New Features in Cisco IOS XE 17.15.1a

Feature Name	License Level	Description	Supported Devices	Related Document
CAT6 to CAT7 PIM Migration	Network Essentials	From this release, the IR8340 router supports migration from LTE Cat6 to Cat7 Pluggable Interface Modules (PIMs), which improves performance and provides higher downlink and uplink speeds.	IR8340	CAT6 to CAT7 PIM Migration
Dying Gasp	Network Essentials	From this release, the Dying Gasp feature is supported. When the router is about to shut down due to a power failure, it sends alerts to connected devices as packets through the configured Fast Ethernet and Gigabit Ethernet ports.	IR1101	Dying Gasp
GNSS on PIMS		This feature allows you to configure and manage the Global Navigation Satellite System (GNSS) PIM module on Cisco IOS XE Catalyst SD-WAN devices using Cisco SD-WAN Manager.	IR1101 and IR1800	GNSS on PIMS
Layer 2 Tunneling Protocol v3 Generic Object-Oriented Substation Event Traffic Support	Network Essentials and Network Advantage	This release supports Layer 2 Tunnelling Protocol v3 (L2TPv3) to transmit Generic Object-Oriented Substation Event (GOOSE) and Sampled Value (SV) traffic through Layer 2 tunnels between geographically separated substations over a WAN. This feature supports interoperability and real-time exchange of information between the substations to facilitate improved monitoring, control, efficiency, safety, and reliability.	IR1101 and IR8340	Layer 2 Tunneling Protocol Version 3
MACsec Support	HSEC License	From this release, you can configure MACsec on the LAN port and IPsec on the WAN port to secure sensitive traffic originating from distribution automation assets. The router acts as a gateway, enabling distribution automation assets to utilize MACsec encryption at Layer 2 and establish IPsec tunnels through the LTE or WAN port.	IR1800	MACsec Support

Feature Name	License Level	Description	Supported Devices	Related Document
Managed Cellular Activation	Network Essentials	The Managed Cellular Activation solution provides a programmable subscriber identity module (SIM), called an eSIM, a physical SIM card that you can configure with a cellular service plan of your choice. When ordering a pluggable interface module (PIM) to provide cellular connectivity for your router, choose a PIM model with a preinstalled eSIM. The Managed Cellular Activation solution comes with a "bootstrap" cellular plan to provide internet connectivity with a limited amount of data intended only for Day 0 onboarding of the device to your cellular plan. For information about configuring Cisco SD-WAN Manager with the details of your cellular plan in preparation for onboarding the device, see the Cisco Managed Cellular Activation Configuration Guide. Prepare the configuration in Cisco SD-WAN Manager before powering on and onboarding the device, to avoid running out of the limited data in the bootstrap cellular plan. **Note**: In this context, eSIM refers to a removable SIM pre-installed by Cisco. In other contexts, eSIM can refer to a non-removable SIM embedded in a cellular-enabled device.	IR1101 and IR1800	Cisco Managed Cellular Activation Configuration Guide
P-LTE-450 Module Firmware Upgrade	Network Advantage	The P-LTE-450 module now supports firmware upgrades using a REST API. This method allows you to upgrade the module's PIM and modem firmware.	IR1101 and IR1800	
vCPU and RAM Distribution	Network Advantage	The Cisco IR8340, IR1835, and IR8100 routers now offer higher vCPU and RAM allocation to host Cisco IOx applications. These routers support Data Plane Heavy and Service Plane Heavy distribution templates. You can allocate 3 GB of RAM and two vCPU cores to the IR1835 and IR8100 routers, and 3 GB of RAM and three vCPU cores to the IR8340 router.	IR8340, IR1835 and IR8100	IR8340, IR1835, and IR8100.
WAN Port on IR1101 Routers	Network Essentials	This release enables the conversion of the Layer 2 GO/0/5 interface into a Layer 3 WAN port. This feature enhances network flexibility and optimizes traffic management without additional hardware, and it is compatible with Jumbo MTU (9000 bytes) IRM-1100-SPMI and IRM-1100-SP expansion modules.	IR1101	Configure WAN Port

Feature Name	License Level	Description	Supported Devices	Related Document
Web Authentication Support on WGB	Network Essential	From this release, the WP-WIFI6 module supports the Web Authentication feature. This feature allows a captive portal to offer secure Wi-Fi access. The Web Authentication feature is particularly beneficial for public Wi-Fi and is compatible with macOS, Windows, and Android devices.	IR1800	Web Authentication Support on WGB

Behavior Changes

CSDL Changes Impacting IOx Behavior

From Cisco IOS XE Release 17.15.1a, the application signature verification is performed by default for all applications during installation. Only Cisco-signed applications can be installed after verification. Unsigned applications will not be allowed to install.

Note If unsigned applications were installed on your system before upgrading to version 17.15.1a, they will continue to function after the upgrade. However, if you uninstall an unsigned application and try to reinstall it, the signature verification will fail.

To install unsigned applications, disable signature verification manually by using the **app-hosting verification disable** command, as shown in the example here:

```
Device# app-hosting verification disable
```

Use the **show app-hosting infra** command to verify Application signature verification, as shown in the example here:

```
Device# show app-hosting infra
IOX version: 2.11.0.2
App signature verification: disabled
CAF Health: Stable
```

Note Unsigned applications are third-party applications built by customers or users.

CAT 6 to CAT 7 PIM Migration and 5G PIM Support for IR8340

The following new PIDs and modems are supported:

Table 3: PIDs and Modems supported on IR8340

PIDs
P-LTEA7-JP

PIDs
P-LTEA7-EAL
P-LTDA7-NA

Table 4: PID and 5G modem supported on IR8340

PID	Modem
P-5GS6-R16SA-GL	EM9293

The LTE CAT 6 Pluggable Interface Modules (PIMs) are migrated to CAT 7 modems, providing these updates:

- CAT 6 Sierra Wireless EM7455/7430 updates to CAT 7 Sierra Wireless EM7411/7421/7431.
- CAT 7 modems offer higher downlink and uplink speeds

Note IOS XE release 17.15.1 does not support eSIM for the new PIDs on IR8140 or IR8340, although the CLI commands may permit it.

Software Images for Cisco IOS XE Release 17.15.x

Note You must have a cisco.com account and a valid entitlement to download the software.

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.

Cisco IOS XE Release 17.15.x includes the following Cisco images.

Table 5: Software Images for Cisco IOS XE, Release 17.15.6

Router	Image Type	Filename
IR1101	Universal	ir1101-universalk9.17.15.06.SPA.bin
	NPE	ir1101-universalk9_npe.17.15.06.SPA.bin
IR1800	Universal	ir1800-universalk9.17.15.06.SPA.bin
	NPE	ir1800-universalk9_npe.17.15.06.SPA.bin
	UTD Engine for Cisco IR1835	utd.17.15.06.1.0.7_SV3.1.55.0_XE17.15.x86_arch64.tar
IR8100	Universal	ir8100-universalk9.17.15.06.SPA.bin
	NPE	ir8100-universalk9_npe.17.15.06.SPA.bin

Router	Image Type	Filename
IR8340	Universal	ir8340-universalk9.17.15.06.SPA.bin
	NPE	ir8340-universalk9_npe.17.15.06.SPA.bin
	UTD Engine for Cisco IR8340	utd.17.15.06.1.0.7_SV3.1.55.0_XE17.15.x86_64.tar

Table 6: Software Images for Cisco IOS XE, Release 17.15.5a

Router	Image Type	Filename
IR1101	Universal	ir1101-universalk9.17.15.05a.SPA.bin
	NPE	ir1101-universalk9_npe.17.15.05a.SPA.bin
IR1800	Universal	ir1800-universalk9.17.15.05a.SPA.bin
	NPE	ir1800-universalk9_npe.17.15.05a.SPA.bin
	UTD Engine for Cisco IR1835	utd.17.15.05a.1.0.7_SV3.1.55.0_XE17.15.x86_arch64.tar
IR8100	Universal	ir8100-universalk9.17.15.05a.SPA.bin
	NPE	ir8100-universalk9_npe.17.15.05a.SPA.bin
IR8340	Universal	ir8340-universalk9.17.15.05a.SPA.bin
	NPE	ir8340-universalk9_npe.17.15.05a.SPA.bin
	UTD Engine for Cisco IR8340	utd.17.15.05a.1.0.7_SV3.1.55.0_XE17.15.x86_64.tar

Table 7: Software Images for Cisco IOS XE, Release 17.15.4

Router	Image Type	Filename
IR1101	Universal	ir1101-universalk9.17.15.04.SPA.bin
	NPE	ir1101-universalk9_npe.17.15.04.SPA.bin
IR1800	Universal	ir1800-universalk9.17.15.04.SPA.bin
	NPE	ir1800-universalk9_npe.17.15.04.SPA.bin
	UTD Engine for Cisco IR1835	utd.17.15.04.1.0.7_SV3.1.55.0_XE17.15.x86_arch64.tar
IR8100	Universal	ir8100-universalk9.17.15.04.SPA.bin
	NPE	ir8100-universalk9_npe.17.15.04.SPA.bin

Router	Image Type	Filename
IR8340	Universal	ir8340-universalk9.17.15.04.SPA.bin
	NPE	ir8340-universalk9_npe.17.15.04.SPA.bin
	UTD Engine for Cisco IR8340	utd.17.15.04.1.0.7_SV3.1.55.0_XE17.15.x86_64.tar

Cisco IOS XE Release 17.15.3 includes the following Cisco images.

Table 8: Software Images for Cisco IOS XE, Release 17.15.3

Router	Image Type	Filename
IR1101	Universal	ir1101-universalk9.17.15.03.SPA.bin
	NPE	ir1101-universalk9_npe.17.15.03.SPA.bin
IR1800	Universal	ir1800-universalk9.17.15.03.SPA.bin
	NPE	ir1800-universalk9_npe.17.15.03.SPA.bin
	UTD Engine for Cisco IR1835	utd.17.15.03.1.0.7_SV3.1.55.0_XE17.15.x86_arch64.tar
IR8100	Universal	ir8100-universalk9.17.15.03.SPA.bin
	NPE	ir8100-universalk9_npe.17.15.03.SPA.bin
IR8340	Universal	ir8340-universalk9.17.15.03.SPA.bin
	NPE	ir8340-universalk9_npe.17.15.03.SPA.bin
	UTD Engine for Cisco IR8340	utd.17.15.03.1.0.7_SV3.1.55.0_XE17.15.x86_64.tar

Cisco IOS XE Release 17.15.2c includes the following Cisco images.

Table 9: Software Images for Cisco IOS XE, Release 17.15.2c

Router	Image Type	Filename
IR1101	Universal	ir1101-universalk9.17.15.02c.SPA.bin
	NPE	ir1101-universalk9_npe.17.15.02c.SPA.bin
IR1800	Universal	ir1800-universalk9.17.15.02c.SPA.bin
	NPE	ir1800-universalk9_npe.17.15.02c.SPA.bin
	UTD Engine for Cisco IR1835	utd.17.15.02c.1.0.7_SV3.1.55.0_XE17.15.x86_arch64.tar

Router	Image Type	Filename
IR8100	Universal	ir8100-universalk9.17.15.02c.SPA.bin
	NPE	ir8100-universalk9_npe.17.15.02c.SPA.bin
IR8340	Universal	ir8340-universalk9.17.15.02c.SPA.bin
	NPE	ir8340-universalk9_npe.17.15.02c.SPA.bin
	UTD Engine for Cisco IR8340	utd.17.15.02c.1.0.7_SV3.1.55.0_XE17.15.x86_64.tar

Cisco IOS XE Release 17.15.1a includes the following Cisco images.

Table 10: Software Images for Cisco IOS XE, Release 17.15.1a

Router	Image Type	Filename
IR1101	Universal	ir1101-universalk9.17.15.01a.SPA.bin
	NPE	ir1101-universalk9_npe.17.15.01a.SPA.bin
IR1800	Universal	ir1800-universalk9.17.15.01a.SPA.bin
	NPE	ir1800-universalk9_npe.17.15.01a.SPA.bin
	UTD Engine for Cisco IR1835	utd.17.15.01a.1.0.7_SV3.1.55.0_XE17.15.x86_arch64.tar
IR8100	Universal	ir8100-universalk9.17.15.01a.SPA.bin
	NPE	ir8100-universalk9_npe.17.15.01a.SPA.bin
IR8340	Universal	ir8340-universalk9.17.15.01a.SPA.bin
	NPE	ir8340-universalk9_npe.17.15.01a.SPA.bin
	UTD Engine for Cisco IR8340	utd.17.15.01a.1.0.7_SV3.1.55.0_XE17.15.x86_64.tar

Interface Naming Conventions

This section shows the names of the interfaces on Cisco Catalyst IR1101, IR1800, IR8140, and IR8340 routers on each port.

Cisco Catalyst IR1101 Rugged Series Router

Port	Naming Convention
Gigabit Ethernet combo port	GigabitEthernet0/0/0
Gigabit Ethernet SFP port on IRM-1100	GigabitEthernet0/0/5

Port	Naming Convention
Gigabit Ethernet on IRM-1100-4A2T mounted on the Expansion side	Gigabitetherenet 0/0/5 Gigabitetherenet 0/0/6
Fast Ethernet ports	FastEthernet0/0/1 FastEthernet0/0/2 FastEthernet0/0/3 FastEthernet0/0/4
Cellular Interface on IR1101 Base	Cellular 0/1/0 Cellular 0/1/1
Cellular Interface on IRM-1100 mounted on the top (EM) side	Cellular 0/3/0 Cellular 0/3/1
Cellular Interface on IRM-1100 mounted on the bottom (CM) side	Cellular 0/4/0 Cellular 0/4/1
Asynchronous Serial Interface Base	async0/2/0
IRM-1100-4A2T is mounted on the top (EM) side	async 0/3/0 async 0/3/1 async 0/3/2 async 0/3/3
IRM-1100-4A2T is mounted on the bottom (CM) side	async 0/4/0 async 0/4/1 async 0/4/2 async 0/4/3
USB	usbflash0:
mSATA	msata:
IR1101 Base Unit Alarm input	alarm contact 0
GPIO on IRM-1100	alarm contact 1-4
LoRaWAN interface on IR1101 Base	LORAWAN0/1/0
LoRaWAN interface on the top (EM) side	LORAWAN0/3/0
Gigabit Ethernet interface for LTE 450MHz module on IR1101 Base	Gigabitetherenet 0/1/0 Gigabitetherenet 0/1/0.x for multiPDN operation

Port	Naming Convention
Gigabit Ethernet interface for LTE 450MHz module mounted on the bottom (CM) side	GI0/4/0

Cisco Catalyst IR1800 Rugged Series Router

Port	Naming Convention
Gigabit Ethernet combo port	GigabitEthernet0/0/0
Gigabit Ethernet ports	GigabitEthernet0/1/0 GigabitEthernet0/1/1 GigabitEthernet0/1/2 GigabitEthernet0/1/3
Cellular Interface	Cellular 0/4/0 Cellular 0/4/1 Cellular 0/5/0 Cellular 0/5/1
Asynchronous Serial Interface	Async0/2/0 Async0/2/1 (when the base platform supports two asynchronous serial interfaces)
Wi-Fi Interface	Wl0/1/4
USB	usbflash0:
mSATA	msata:
GPIO	alarm contact 1-4

Cisco Catalyst IR8140 Heavy Duty Series Router

Port	Naming Convention
Gigabit Ethernet ports	GigabitEthernet0/0/0 GigabitEthernet0/0/1
Cellular Interface	Cellular 0/2/0 Cellular 0/2/1 Cellular 0/3/0 Cellular 0/3/1
SSD	Virtual port Group0

Port	Naming Convention
WPAN	Wpan 0/1/0 Wpan 0/2/0 Wpan 0/3/0
Digital IO	alarm contact 1-2

Cisco Catalyst IR8340 Rugged Series Router

Port	Naming Convention
Gigabit Ethernet WAN ports	GigabitEthernet0/0/0 GigabitEthernet0/0/1
Gigabit Ethernet LAN ports	GigabitEthernet0/1/0 GigabitEthernet0/1/1 GigabitEthernet0/1/2 GigabitEthernet0/1/3 GigabitEthernet0/1/4 GigabitEthernet0/1/5 GigabitEthernet0/1/6 GigabitEthernet0/1/7 GigabitEthernet0/1/8 GigabitEthernet0/1/9 GigabitEthernet0/1/10 GigabitEthernet0/1/11
Cellular Interface	Cellular 0/4/0 Cellular 0/4/1 Cellular 0/5/0 Cellular 0/5/1
NIM Interface (Asynchronous/Synchronous Serial Ports or E1/T1 ports)	0/2/0 0/2/1 0/3/0 0/3/1
mSATA SSD	msata:
GPIO	alarm contact 0-2

Port	Naming Convention
USB Port	usb0:
Console Port	Line console 0

Cellular Module Modem Firmware, OEM/PRI

This section contains 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.

Note Cisco IOS XE updates do not automatically update the modem firmware. The user should check and update all modems to the latest firmware and any associated PRI and/or OEMPRI. See the following table for the latest information:

Table 11: Cellular Module Modem Firmware

Cellular Module	Modem	Firmware Version	Software Download Link
P-5GS6-GL	FN980	38.03.0202	https://software.cisco.com/download/home/286329300/type/
P-LTEAP18-GL IRMH-LTEAP18-GL	LM960	32.00.1x9	https://software.cisco.com/download/home/286311455/type https://software.cisco.com/download/home/286311455/type
P-LTEA-EA IRMH-LTEA-EA	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 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

Cellular Module	Modem	Firmware Version	Software Download Link
P-LTEA-LA IRMH-LTEA-LA	EM7430	02.38.00.00	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-LTE-VZW	WP7601	02.37.0x.00	https://software.cisco.com/download/home/286322139/type
P-LTE-US	WP7603	02.37.0x.00	https://software.cisco.com/download/home/286322143/type
P-LTE-JN	WP7605	02.28.03	https://software.cisco.com/download/home/286322156/type
P-LTE-GB	WP7607	02.37.03.05	https://software.cisco.com/download/home/286322147/type
P-LTE-IN	WP7608	02.28.03	https://software.cisco.com/download/home/286322152/type
P-LTE-AU	WP7609	02.28.03	https://software.cisco.com/download/home/286323720/type
P-LTE-MNA	WP7610	02.37.0x.0x	https://software.cisco.com/download/home/286324942/type
P-LTEA7-NA	EM7411	01.14.22.00	https://software.cisco.com/download/home/286333933/type
P-LTEA7-EAL	EM7421	01.14.22.00	https://software.cisco.com/download/home/286333937/type
P-LTEA7-JP	EM7431	01.14.22.00	https://software.cisco.com/download/home/286333939/type
P-5GS6-R16SA-GL	EM9293	02.17.08.00	https://software.cisco.com/download/home/286334597/type
P-LTE-450	Not Applicable	v1.3.0	Contact Intelliport for the software download link (info@intelliport.hu)

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).

VLAN-Aware Interoperability Limitations on IR1101

Cisco does not support VLAN-aware interoperability with other vendors on the IR1101 platform.

Standalone MAC Authentication Bypass 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. The IR1100 crashes with concurrent IPSec traffic and macsec traffic (device to client).

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. If users still want to use MAB/Dot1x, they should disable the type-6 encryption and enable type-7 encryption.	17.4.x 17.5.x 17.6.1 17.6.2 17.7.1	17.3.5 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 Cisco Catalyst IR1101 Rugged Series Routers due to a hardware limitation. dACL is supported on the Cisco Catalyst IR1800 Rugged Series Routers 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.

SSH Algorithms for Common Criteria Certification Limitation

Starting from Cisco IOS XE Release 17.10, the following Key Exchange and MAC algorithms are removed from the default list:

- Key Exchange algorithm:
  - diffie-hellman-group14-sha1
- MAC algorithms:
  - hmac-sha1
  - hmac-sha2-256
  - hmac-sha2-512

Note You can use the **ip ssh server algorithm kex** command to configure the Key Exchange algorithm and the **ip ssh server algorithm mac** command to configure the MAC algorithms.

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.

Cisco Bug Search Tool (BST)

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 17.15.6

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

Identifier	Description	Platform
CSCws62413	IR8340 Unexpected Reload with LocalSoftADR and Kernel Panic with SMP NOPTI	IR8340
CSCwt01182	IR8340: PTP from UTC to TAI on an IR8340 is not working	IR8340
CSCws49513	IR8140 wpan hardware key-info does not match mesh-security keys	IR8140
CSCws68355	NVRAM Header Corruption on Power Cycle on IR8100, IR1101 and C6300 devices	IR8100 and IR1101
CSCws92361	BBU shows in idle state with low SOC and it starts charging after restting the BBU	IR8140
CSCwt05807	Telemetry sends incorrect data when sensor's reading is negative	IR1101
CSCwt69103	IR8340 does not send BPDU when using etherchannel	IR8340
CSCwt78851	On IR8340 router, 9124AXI and 9124AXE APs are not negotiating required power to function optimally	IR8340
CSCwu34243	%TDLDB-3-DBPERSIST_OPERATION_FAILURE on DB: /tmp/rp/tdldb/0/CTRL_MNG_CFG_DB and unable to save config or reload router	IR1101 and IR8140

Resolved Caveats in Cisco IOS XE 17.15.6

There are no resolved caveats in this release.

Open Caveats in Cisco IOS XE 17.15.5a

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

Identifier	Description	Platform
CSCwn98622	Hardware removal & insertion SNMP traps received after soft reload-Misleading router actual activity	IR8140
CSCws03232	Access list failing to block when applied to raw-socket serial line config	IR8340
CSCwr98904	WIFI6 module loses configuration with IR1821 reload	IR1821

Resolved Caveats in Cisco IOS XE 17.15.5a

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

Identifier	Description	Platform
CSCwq60670	NVRAM Header Corruption on Power Cycle	IR1800
CSCwp90680	IR1101 not completing ARP for Emerson FB-3000	IR1101
CSCws66114	IR8340 is failing upgrade from 17.15.1a to 17.15.4 using install commands	IR8340

Open Caveats in Cisco IOS XE 17.15.4

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

Identifier	Description	Platform
CSCwn98622	Hardware removal & insertion SNMP traps received after soft reload-Misleading router actual activity	IR8140

Resolved Caveats in Cisco IOS XE 17.15.4

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

Identifier	Description	Platform
CSCwm92704	IR8340 & IE9320 redbox forwarding multiple primary announce messages to SAN	IR8340 IE9320

Identifier	Description	Platform
CSCwo73978	Disappearance of band selection configuration from cellular controller after a router reload	IR1800
CSCwo91346	IR1101 WANMON failing to reach level 2 recovery	IR1101
CSCwo31561	"Error in showing license Information" when "show license rum id all" is executed	IR1101
CSCwn60186	IR8340 / XE 17.9 / onboard G0/0/0 RJ45 WAN port flaps when removing "media-type rj45" config	IR8340
CSCwp13058	Unintended BBU fw upgrade when misscommunication occures between IOS and BBU fw	IR8140H
CSCwn40550	Device kernel crash with dying-gasp primary snmp-trap secondary syslog	IR1800
CSCwp00808	IRM-NIM-RS232 module Serial interface stops transmitting TCP raw socket traffic	IR8340

Open Caveats in Cisco IOS XE 17.15.3

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

Identifier	Description	Platform
CSCwm87002	Configuring dying gasp snmp-traps causes router crash.	IR1835
CSCwo31561	"Error in showing license Information" when "show license rum id all" is executed.	IR1101

Resolved Caveats in Cisco IOS XE 17.15.3

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

Identifier	Description	Platform
CSCwo13365	Cellular interface to not install cellular MTU automatically when the link is up.	IR1800
CSCwn80507	Traceback followed by CPUHOG observed when IRM-GNSS-ADR VID: V20 is inserted into IR1833 router.	IR1800
CSCwn11290	Input errors on G0/0/0 interface	IR8340

Identifier	Description	Platform
CSCwn31061	GIG 0/0/5 interface on the expansion module goes in err-disabled mode when traffic exceeds 480 Mbps	IR1101
CSCwn31694	Memory Leak cause by PTP process in linux_ios-imag	IR8340

Open Caveats in Cisco IOS XE 17.15.2c

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

Identifier	Description	Platform
CSCwn80507	Traceback followed by CPUHOG observed when IRM-GNSS-ADR VID: V20 is inserted into IR1833 router.	IR1800

Resolved Caveats in Cisco IOS XE 17.15.2c

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

Identifier	Description	Platform
CSCwn31061	GIG 0/0/5 interface on the expansion module goes in err-disabled mode when traffic exceeds 480 Mbps	IR1101
CSCwn16197	IR1101 fails to boot when cellular modules are inserted/Unable to ping through cellular interface	IR1101
CSCwm10262	UTD engine is not running after reload	IR1800
CSCwn11290	Input errors on G0/0/0 interface	IR8340
CSCwn31694	Memory Leak cause by PTP process in linux_ios-imag	IR8340
CSCwm67835	Seeing High Offset value when two ntp servers are configured and GNSS as refclock	IR8340
CSCwm40611	IR8340: Serial interface snmp query is failing after enabled \u201cphysical-layer async\"	IR8340
CSCwm57517	Not able to see the description of serial interfaces after power cycle of IR8340	IR8340
CSCwm67323	Intermittent failure to acquire GPS coordinates	IR8140
CSCwi96187	P-5GS6-GL FN980 modem fW upgrade failing when two modems on IR1800	IR1800

Identifier	Description	Platform
CSCwj21653	Kernel crash over continuous reloads	IR1101
CSCwj59974	GPS is stuck in acquiring state for P-5GS6-GL	IR1101

Open Caveats in Cisco IOS XE 17.15.1a

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

Identifier	Description	Platform
CSCwk59606	Platform usb disable is not working after reseat USB	IR1101
CSCwk45072	Few constellations are stuck in acquiring state	IR1101
CSCwd38611	FN980 modem is not showing in show inventory after multiple modem-power cycle	IR1101 and IR1800
CSCwj33878	P-LTEA7-NA/EAL/JP Modules not able to send Dying-gasp after sudden power loss	IR1101 and IR1800
CSCvz30726	High CF/TE,Turnaround and Latency number after reload of router	IR8340
CSCwa92737	CPP/FMAN Download errors on attaching ngsw class-map using etype classification	IR8340

Resolved Caveats in Cisco IOS XE 17.15.1a

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

Identifier	Description	Platform
CSCwi66681	Modem resets frequently on 17.12.02 with RSSI spikes upto -130 dBm	IR1101
CSCwi59341	P-LPWA-XXX module reloads periodically causing service outage requiring manual intervention	IR1101
CSCwi59687	Guestshell not persistent across reloads	IR1800
CSCwi43664	WP-WIFI6 : Module Out of Service upon reload	IR1800
CSCwj81049	Unexpected power-on behavior when using ignition detection and/or voltage sense	IR1800
CSCwi53014	Python App cannot open serial port /dev/ttyGyro	IR1800
CSCwi39241	EA Modem/OD Inaccurate GPS Coordinates	IR1800

Identifier	Description	Platform
CSCwj54544	Power usage is at normal level - Events sent every 30 sec in 17.11.1a	IR8140
CSCwi63267	Failed to upgrade from 17.7.1 (ROM: v0.49(REL)) to 17.13.1a on IR8340, routers keep reloading	IR8340
CSCwi29218	Traffic is impacted when HSR link goes down with 100mbps speed.	IR8340
CSCwi52138	Insufficient Power for PoE	IR1835

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

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