

# Release Notes for Cisco 1000 Series Integrated Services Routers, Cisco IOS XE Bengaluru 17.5.x

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## About Cisco 1000 Series Integrated Services Routers

The Cisco 1000 Series Integrated Services Routers (also referred to as router in this document) are powerful fixed branch routers based on the Cisco IOS XE operating system. They are multi-core routers with separate core for data plane and control plane. There are two primary models with 8 LAN ports and 4 LAN ports. Features such as Smart Licensing, VDSL2 and ADSL2/2+, 802.11ac with Wave 2, 4G LTE-Advanced and 3G/4G LTE and LTEA Omnidirectional Dipole Antenna (LTE-ANTM-SMA-D) are supported on the router.



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**Note** Starting with Cisco IOS XE Amsterdam 17.3.2, 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).
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## New and Changed Hardware Features

### New and Changed Software Features

**Table 1: New Software Features in Cisco 1000 Series ISRs Release Cisco IOS XE Bengaluru 17.5.1**

Feature	Description
CFM operation and action model	<p>This feature introduces a NETCONF/YANG model to perform the following functions:</p> <ul style="list-style-type: none"> <li>• Display Ethernet CFM maintenance-points data for local MEP, local MIP, remote MEP, or database.</li> <li>• Activate or deactivate CFM latching loopback and start or stop OAM remote loopback.</li> <li>• This model helps you to gain more visibility into the timing of the service operations and manage network devices from a centralised orchestration application such as Cisco DNAC.</li> </ul> <p>For more information, see Programmability Configuration Guide.</p>
<a href="#">Implementation of System Reports</a>	This feature lets you configure system reports that can provide critical information on issues that cause software crashes.
<a href="#">PPPoE Client over VLAN Interface</a>	The PPPoE Client over VLAN interface enhancement allows you to configure the PPPoE client to establish a PPPoE session over a VLAN interface.
Pyang version 2.x	The updated pyang plugin version 2.x fixes existing issues such as XPATH validation and upstream pyang issues. Additionally, this version reports all errors in the YANG models to the users and enforces a strict model validation.

## Cisco ISR1000 ROMMON Compatibility Matrix

The following table lists the ROMmon releases supported in Cisco IOS XE 16.x.x releases and Cisco IOS XE 17.x.x releases

**Table 2: Minimum and Recommended ROMmon Releases Supported on Cisco 1000 Series Integrated Services Routers**

Cisco IOS XE Release	Minimum ROMmon Release Supported for IOS XE	Recommended ROMmon Release Supported for IOS XE
16.6.x	16.6(1r)	16.6(1r)
16.7.x	16.6(1r)	16.6(1r)
16.8.x	16.8(1r)	16.8(1r)
16.9.x	16.9(1r)	16.9(1r)
16.10.x	16.9(1r)	16.9(1r)

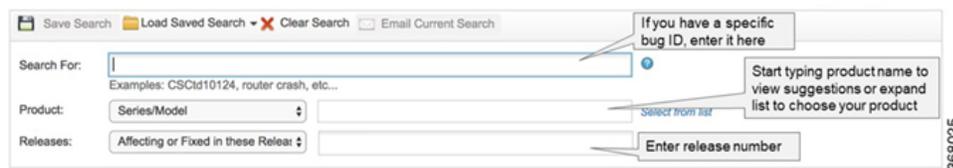
Cisco IOS XE Release	Minimum ROMmon Release Supported for IOS XE	Recommended ROMmon Release Supported for IOS XE
16.11.x	16.9(1r)	16.9(1r)
16.12.x	16.9(1r)	16.12(1r)
17.2.x	16.9(1r)	16.12(1r)
17.3.x	16.12(2r)	16.12(2r)
17.4.x	16.12(2r)	16.12(2r)
17.5.x	17.5(1r)	17.5(1r)

## Resolved and Open Caveats

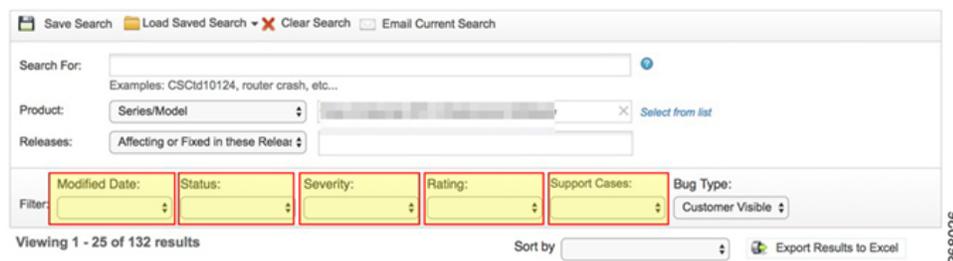
### About the Cisco Bug Search Tool

Use the [Cisco Bug Search Tool](#) to access open and resolved bugs for a release.

The tool allows you to search for a specific bug ID, or for all bugs specific to a product and a release.



You can filter the search results by last modified date, bug status (open, resolved), severity, rating, and support cases.



### Resolved Bugs in Cisco IOS XE 17.5.1

Caveat ID Number	Description
<a href="#">CSCvw23041</a>	Crash with high netflow traffic due to %CPPHA-3-FAILURE: R0/0: cpp_ha: CPP 0 failure Stuck Thread(s)
<a href="#">CSCvw47800</a>	HSL Export over VASI Interface causes Netflow v9 Template Flooding
<a href="#">CSCvx64180</a>	On Cisco 1113 ISR, CCM multicast frames dropped in upstream direction

Caveat ID Number	Description
<a href="#">CSCvx94635</a>	Cisco 1100 ISR/Cisco 1100X ISR: OS migration not working on MT setup.

## Open Caveats in Cisco IOS XE Bengaluru 17.5.1

Caveat ID Number	Description
<a href="#">CSCvx32670</a>	Wrong reload reason reflected after a power outage.
<a href="#">CSCvw69411</a>	OC: unable to configure interface negotiation and speed via netconf rep.
<a href="#">CSCvx60534</a>	ISR1161/ISR1161X - duplicate PID and S/N for the power supply
<a href="#">CSCvy00325</a>	Cisco 1000 Series ISR 17.5: ConfD crashed due to high memory utilization

## Related Information

- [Hardware Installation Guide](#)
- [Software Configuration Guide](#)
- [Smart Licensing using Policy](#)

