



Release Notes for Cisco IOS XRv 9000 Routers, IOS XR Release 25.1.2

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Cisco XRv 9000 Routers, IOS XR Release 25.1.2

Cisco IOS XR Release 25.1.2 is an extended maintenance release of [Cisco IOS XR Release 25.1.1](#) for Cisco IOS XRv 9000 Series routers. There are no new software features or hardware introduced in this release.

For more details on the Cisco IOS XR release model and associated support, see [Software Lifecycle Support Statement - IOS XR](#).

Cisco IOS XRv 9000 Router Overview

The Cisco IOS XRv 9000 Router is based on Cisco IOS XR software, so it inherits and shares the wide breadth of routing functionality available on other IOS XR platforms. The IOS XR features available on the Cisco IOS XRv 9000 Router are discussed in Supported Cisco IOS XR Technologies section.

Cisco IOS XRv 9000 Appliance supports the same look and feel as Cisco ASR 9000 Series Aggregation Services Routers and North-bound APIs. Cisco IOS XRv 9000 Router does not support hardware specific configurations. The configuration commands for control plane and data plane features follow the same syntax as the Cisco ASR 9000 Series Aggregation Services Routers. See [Cisco ASR 9000 Series Aggregation Services Routers command references](#) for more information on configuration commands.

New software features

There is no new software features introduced in this release.

New hardware

There is no new hardware introduced in this release.

Changes in behavior

There are no changes in behavior.

Open issues

There are no open caveats in this release.

Known issues

There are no known issues in this release.

Compatibility

Appliance model

Cisco IOS XRv 9000 Appliance is the pre-installed Cisco IOS XRv 9000 Router software that is sent from the factory on a bare metal UCS server hardware. It supports hyper scalability as it can scale to 70 million route prefixes when run as a Virtual Route Reflector. Therefore, the extra layer of software (hypervisor) is not required.

The Appliance also supports Zero Touch Provisioning (ZTP) which allows easier insertion into existing networks.

Table 1. Specification of the Cisco XRv 9000 Appliance

Parameters	Supported
Form Factor	1 RU
Processor	4th Gen Intel Xeon Scalable processor Intel I5420+ 2GHz/205W 28C/52.5MB DDR5 4400MT/s
Memory size	128GB (8x16GB DDR5-4800 RDIMM 1Rx8)
Internal storage	480GB M.2 Boot SATA Intel SSD
Software version	Cisco IOS-XR version 24.4.2 and later
Firmware version	BIOS version: C220M7.4.3.5b.0_XRV9K CIMC/BMC version: 4.3(5.250001)
Physical NICs	25G Model: Cisco-Intel E810XXVDA4L 4x25/10 GbE SFP28 PCIe 100G Model: Cisco-MLNX MCX623106AS-CDAT 2x100GbE QSFP56 PCIe Cisco-MLNX MCX623106AS-CDAT 2x100GbE QSFP56 PCIe

Firmware update available for UCS M7 appliance (xrv9k-ucs-c220m7-huu-container-4.3.5.250001.tar.gz)

A firmware update package, xrv9k-ucs-c220m7-huu-container-4.3.5.250001.tar.gz, is now available for the UCS M7 appliance. This package includes firmware for both the CIMC and BIOS, incorporating a mandatory security fix.

The SHA256 checksum for the package is:

fbcb684125becb2918191481637dcc3421d01c87b9063e8432843a5c256b0361f

The SHA256 checksum for the CIMC and BIOS binaries are:

- bios.pkg 16b8640249ec199cf096f462601dc587deed9346442a2f2081548da7dab5a4f0
- cimc.bin 8f932da5114bfbdd220dad06b9ec74a3bc45fcbf69a5d732519231f4970040ef8

For detailed instructions on extracting and installing the firmware, please refer to the documentation at [Firmware Files](#).

Optic support

Table 2. Optics support for the XRv 9000 Routers

Product	Product Code	Product Recommendation
Cisco 100GBASE LR4 QSFP Transceiver, LC, 10km over SMF	Cisco QSFP-100G-LR4-S	XRv9000 Appliance with UCS-C220 M7 server, 2X100G
Cisco 100GBASE SR4 QSFP Transceiver, MPO, 100m over OM4 MMF	Cisco QSFP-100G-SR4-S	
Cisco 10GBASE SFP+, Short Range	Cisco SFP-10G-SR	XRv9000 Appliance with UCS-C220 M7 server

Product	Product Code	Product Recommendation
Cisco 10GBASE SFP+, Long Range	Cisco SFP-10G-LR	- 4X10/25G

Related resources

Table 3. Related resources

Document	Description
Smart licensing	Information about Smart Licensing Using Policy solutions and their deployment on IOS XR Routers.
Cisco Xrv 9000 documentation	CCO documentation for Cisco IOS Xrv 9000.
Cisco IOS XR error messages	Search by release number, error strings, or compare release numbers to view a detailed repository of error messages and descriptions.
Cisco IOS XR MIBs	Select the MIB of your choice from a drop-down to explore an extensive repository of MIB information.
YANG data models	A user-friendly reference designed to easily explore and understand the various data models supported in Cisco IOS XR platforms and releases.
Recommended release	A general guide in case of upgrading IOS XR routers or new deployments that involve IOS XR routers.

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