



Release Notes for Cisco IOS XRd, IOS XR Release 7.9.2

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XRd is a powerful IOS XR virtual platform that supports roles such as virtual cell-site router (vCSR), and virtual provider-edge (vPE). It is available in a containerized form-factor enabling both standalone and Kubernetes-based containerized network deployments.

Cisco IOS XRd Overview

XRd is the latest virtual platform from Cisco that brings the highly scalable, feature-rich, and reliable IOS-XR operating system to containerized network deployments. With XR control plane capabilities derived from the powerful XRv9000 enables control plane use cases such as virtual route-reflector (vRR) and virtual provider edge (vPE).

The Cisco IOS XR Release 7.9.2 exclusively supports XRd vRouter and XRd Control Plane.

Cisco IOS XRd Licensing Model

The Cisco IOS XRd platform offers two types of licensing schemes. The Cisco IOS XR Software Release 7.9.2 supports only control plane variant. This table lists details of Cisco IOS XRd Router's software licenses or entitlements, arranged according to licensing PIDs.

The Cisco IOS XRd instances are pre-loaded with an evaluation license valid for 90 days. For licenses post the evaluation period, you can purchase the XRd licenses using [Cisco Smart Licensing](#).

Table 1: Cisco IOS XRd Licensing PIDs

PIDs	Description
XRD-VR-CP	XRd Control Plane

What's New in Cisco IOS XR Release 7.9.2

Cisco IOS XR Release 7.9.2 is a maintenance release for Cisco IOS XRd routers. There are no new software features introduced in this release.

For the complete list of features supported on Cisco IOS XRd until Cisco IOS XR Release 7.9.2, see:

[Release Notes for Cisco IOS XRd, IOS XR Release 7.9.1](#)

[Release Notes for Cisco IOS XRd, IOS XR Release 7.8.2](#)

[Release Notes for Cisco IOS XRd, IOS XR Release 7.8.1](#)

[Release Notes for Cisco IOS XRd, IOS XR Release 7.7.1](#)

For more details on the Cisco IOS XR release model and associated support, see [Guidelines for Cisco IOS XR Software](#).

Host Requirements

This section details the host requirements for XRd Control Plane :

Table 2: XRd Control Plane

Parameter	Requirement
XRd Control Plane Host	
CPU	x86-64 CPU with at least 2 cores
RAM	4 GB
Linux kernel	Version 4 and above Note The Linux kernel must install the <i>dummy</i> and <i>nf_tables</i> modules.
Linux cgroups	Version 1 Note Support for unified hierarchy cgroups is not available.
XRd Control Plane instance on the host	
CPU	1 core minimum
RAM	2 GB minimum
Inotify user instances and watches	4000
XRd Control Plane on AWS EC2 instance	
Instance Type	m5.2xlarge
Number of threads per processor core	1
Minimum Disk Size	8 GB Note A XRd instance requires the minimum disk size of 8 GB, but there may be demand for additional disk space depending on how the node handles core files.
Operating System	Amazon Linux 2 with EKS Optimizations
Kernel Settings	4000 inotify user instances and watches per XRd instance



Note For using Docker to run the containers, you need Docker version 18 or above with permission to run Docker containers.



Note Cisco IOS XRd is not supported for production networks on Linux, including Ubuntu or any other distribution. Carefully consider this restriction when planning deployments to avoid potential issues.

Caveats

These caveats are applicable for Cisco IOS XRd Routers:

Table 3: Cisco IOS XRd Specific Bugs

Bug ID	Headline
CSCwe48642	BGP VPNv4 prefix with ATTR_SET is not installed in VRF routing table
CSCvw49101	Issues with replace pattern when interface is configured under dhcp ipv4

Other Important Information

Upgrading Cisco IOS XRd Software

Cisco IOS XRd software is a containerized form-factor deployment that follows the container pattern regarding software upgrades and does not support standard IOS-XR install or upgrade operations. To use the latest XRd software, you can create a new XRd instance with the latest software in place of the previous XRd instance and attach the necessary persistent state to the new XRd instance. The new XRd software may be a different version of IOS-XR or the existing version of IOS-XR with new or bugfix RPMs applied (or a combination of the two). An XRd container image containing new or bugfix RPMs is created from an existing XRd container image using standard container build tools (such as **docker build** or **buildah**) to install the new software packages to the existing **base** image. The **apply-bugfixes** script within the **xrd-tools** repository (<https://github.com/ios-xr/xrd-tools>) is available to achieve this using **docker build**, and you can use it as a template for other container build tools.

Related Documentation

The most current Cisco IOS XRd documentation is located at the following URL:

<https://www.cisco.com/c/en/us/support/routers/ios-xrd/series.html>

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