



# Release Notes for Cisco NCS 560 Series Routers, Cisco IOS XR Release 25.4.2

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## Cisco NCS 560 Series Routers, Release 25.4.2

Cisco IOS XR Release 25.4.2 is an extended maintenance release of [Cisco IOS XR Release 25.4.1](#) for Cisco NCS 560 Series routers.

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

### New software features

There are 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 in this release.

### Open issues

There are no open issues in this release.

### Known Issues

There are no known issues in this release.

### Compatibility

#### Compatibility Matrix for EPNM and Crosswork with Cisco IOS XR Software

The compatibility matrix lists the version of EPNM and Crosswork that are supported with Cisco IOS XR Release in this release.

**Table 1.** Compatibility matrix for Cisco NCS 560 Series Routers, Release 25.4.2

Cisco IOS XR	Crosswork	EPNM
Release 25.4.2	Crosswork Optimization Engine 6.0	Evolved Programmable Network Manager 8.1.1

### System requirements

Use the **show hw-module fpd** command in EXEC and Admin mode to view the hardware components with their current FPD version and status. The status of the hardware must be CURRENT; Running and Programed version must be the same. You can also use the **show fpd package** command in Admin mode to check the fpd versions.

### Software version

To verify the software version running on the router, use show version command in the EXEC mode.

```
Router# show version
Mon Mar 30 15:22:35.162 IST
Cisco IOS XR Software, Version 25.4.2
```

Build Information:

```
Built By      : swtools
Built On     : Sat Mar 28 20:28:23 PDT 2026
Built Host   : iox-lnx-125
Workspace    : /auto/srcarchive12/prod/25.4.2/ncs560/ws
Version     : 25.4.2
Location    : /opt/cisco/XR/packages/
Label       : 25.4.2-iso
```

```
cisco NCS-560 () processor
System uptime is 19 hours 22 minutes
```

## Supported software packages

This table lists the Cisco IOS XR Software feature set matrix (packages) with associated filenames.

Visit the [Cisco Software Download page](#) to download the Cisco IOS XR software images.

Feature Set	Filename	Description
Cisco IOS XR IP Unicast Routing Core Bundle	ncs560-mini-x-25.4.2.iso	Contains base image contents that includes: Host operating system System Admin boot image IOS XR boot image BGP packages OS Admin Base Forwarding Modular Services Card Routing SNMP Agent Alarm Correlation
Cisco IOS XR Manageability Package	ncs560-mgbl-1.0.0.0-r2542.x86_64.rpm	Telemetry, Extensible Markup Language (XML), Parser, and HTTP server packages, NETCONF, YANG Models, gRPC.
Cisco IOS XR OSPF package	ncs560-ospf-1.0.0.0-r2542.x86_64.rpm	Supports OSPF
Cisco IOS XR Security Package	ncs560-k9sec-1.0.0.0-r2542.x86_64.rpm	k9sec is needed for IPsec or MACsec and Dot1x and for basic crypto services such as Decryption, Secure Shell (SSH), Secure Socket Layer (SSL), and Public-key infrastructure (PKI).

Feature Set	Filename	Description
Multicast Package	ncs560-mcast-1.0.0.0-r2542.x86_64.rpm	Supports Multicast Supports Automatic Multicast Tunneling (AMT), IGMP Multicast Listener Discovery (MLD), Multicast Label Distribution Protocol (MLDP), Multicast Source Discovery Protocol (MSDP) and PIM.
Cisco IOS XR ISIS package	ncs560-isis-1.0.0.0-r2542.x86_64.rpm	Supports Intermediate System to Intermediate System (IS-IS).
Cisco IOS XR USB Boot Package	ncs560-usb_boot-25.4.2.zip	Supports Cisco IOS XR USB Boot Package
Cisco IOS XR MPLS Package	ncs560-mpls-1.0.0.0-r2542.x86_64.rpm ncs560-mpls-te-rsvp-1.0.0.0-r2542.x86_64.rpm	Supports MPLS and MPLS Traffic Engineering (MPLS-TE) RPM. Label Distribution Protocol (LDP), MPLS Forwarding, MPLS Operations, Administration, and Maintenance (OAM), Link Manager Protocol (LMP), Optical User Network Interface (OUNI) and Layer-3 VPN. Cisco IOS XR MPLS-TE and RSVP Package MPLS Traffic Engineering (MPLS-TE) and Resource Reservation Protocol (RSVP).
Cisco IOS XR LI Package	ncs560-li-1.0.0.0-r2542.x86_64.rpm	Lawful Intercept
Cisco IOS XR EIGRP Package	ncs560-eigrp-1.0.0.0-r2542.x86_64.rpm	(Optional) Includes EIGRP protocol support software

## Related resources

**Table 2.** Related resources

Document	Description
<a href="#">Cisco feature finder</a>	An interactive tool that assists in locating features introduced across Cisco IOS XR releases and platforms.
<a href="#">Cisco IOS XR error messages</a>	Search by release number, error strings, or compare release numbers to view a detailed repository of error messages and descriptions.
<a href="#">Cisco IOS XR MIBs</a>	Select the MIB of your choice from a drop-down to explore an extensive repository of MIB information.
<a href="#">Cisco NCS 560 documentation</a>	CCO Documentation for Cisco NCS 560 Series Routers
<a href="#">Feature deprecation and removal details</a>	Outlines the features currently supported by each operating system.
<a href="#">Feature deprecation phasing out insecure capabilities</a>	Provides a list of insecure features and protocols that are scheduled for systematic deprecation and eventual removal from specified Cisco products.
<a href="#">Feature removal and suggested alternatives</a>	Details the reasons why certain features or protocols are deemed insecure and offers secure alternatives when available.
<a href="#">Smart licensing</a>	Information about Smart Licensing Using Policy solutions and their deployment on IOS XR

Document	Description
	Routers.
<a href="#">Transceiver Module Group (TMG) compatibility matrix</a>	Search by product family, product ID, data rate, reach, cable type, or form factor to determine the transceivers that Cisco hardware device supports.
<a href="#">YANG data models</a>	A user-friendly reference designed to easily explore and understand the various data models supported in Cisco IOS XR platforms and releases.
<a href="#">Yang data models in Github</a>	Repository containing the folders with yang data models introduced and enhanced in every IOS XR release.

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