Release Notes for Cisco NCS 5500 Series Routers, IOS XR Release 25.2.21

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Cisco NCS 5500 Series Routers, IOS XR Release 25.2.21

Cisco IOS XR Release 25.2.21 is an extended maintenance release of Cisco IOS XR Release 25.2.2 for Cisco NCS 5500 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.

New software features

There are no new software features introduced in this release.

New hardware

There are no new hardware introduced in this release.

Changes in behavior

There are no changes in behavior.

Open issues

There are no open issues in this release.

Known issues

- The Cisco NCS 5500 series modular routers with Cisco NCS 5700 line cards no longer support new features in compatibility mode. All Cisco IOS XR releases will continue to support features that were already enabled in compatibility mode until release 25.1.1. However, no new features will be added to compatibility mode. To take advantage of new features in current and subsequent releases, enable native mode by using the **hw-module profile npu native-mode-enable** command.

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 EPNM and Crosswork with Cisco IOS XR Software

Cisco IOS XR	Crosswork	EPNM
Release 25.2.21	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.

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Software version

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

```
Router# show version
Fri Apr  3 12:41:09.664 IST
Cisco IOS XR Software, Version 25.2.21
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Build Information:
 Built By     : swtools
 Built On     : Thu Apr  2 16:23:42 PDT 2026
 Built Host   : iox-lnx-049
 Workspace    : /auto/srcarchive11/prod/25.2.21/ncs5500/ws
 Version      : 25.2.21
 Location     : /opt/cisco/XR/packages/
 Label        : 25.2.21-iso

cisco NCS-5500 () processor
System uptime is 26 minutes
```

Supported software packages

The following tables 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.

Table 2. Supported software for NCS 5500 Series Routers, Release 25.2.21

Feature Set	Filename	Description
Composite Package		
Cisco IOS XR IP Unicast Routing Core Bundle	ncs5500-mini-x.iso	Contains base image contents that includes: Host operating system System Admin boot image IOS XR boot image BGP packages
Individually-Installable Optional Packages		
Cisco IOS XR Manageability Package	ncs5500-mgbl-3.0.0.0-r25221.x86_64.rpm	Extensible Markup Language (XML) Parser, Telemetry, Netconf, gRPC and HTTP server packages.
Cisco IOS XR MPLS Package	ncs5500-mpls-2.1.0.0-r25221.x86_64.rpm ncs5500-mpls-te-rsvp-2.2.0.0-r25221.x86_64.rpm	MPLS and MPLS Traffic Engineering (MPLS-TE) RPM.

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Feature Set	Filename	Description
Cisco IOS XR Security Package	ncs5500-k9sec-3.1.0.0-r25221.x86_64.rpm	Support for Encryption, Decryption, Secure Shell (SSH), Secure Socket Layer (SSL), and Public-key infrastructure (PKI)
Cisco IOS XR ISIS package	ncs5500-isis-1.2.0.0-r25221.x86_64.rpm	Support ISIS
Cisco IOS XR OSPF package	ncs5500-ospf-2.0.0.0-r25221.x86_64.rpm	Support OSPF
Lawful Intercept (LI) Package	ncs5500-li-1.0.0.0-r25221.x86_64.rpm	Includes LI software images
Multicast Package	ncs5500-mcast-1.0.0.0-r25221.x86_64rpm	Support Multicast
EIGRP	ncs5500-eigrp-1.0.0.0-r25221.x86_64.rpm	Supports Enhanced Interior Gateway Routing Protocol
Lawful Intercept Control	ncs5500-lictrl-1.0.0.0-r25221x86_64.rpm	Supports Lawful Intercept Control
Healthcheck	ncs5500-healthcheck-1.0.0.0-r25221.x86_64.rpm	Supports System Health Check

Table 3. TAR files for Cisco NCS 5500 Series Router, Release 25.2.21

Feature Set	Filename
NCS 5500 IOS XR Software 3DES	NCS5500-iosxr-k9-25.2.21.tar
NCS 5500 IOS XR Software	NCS5500-iosxr-25.2.21.tar
NCS 5500 IOS XR Software	NCS5500-docs-25.2.21.tar
NCS 5500 IOS XR Software 3DES	NCS5500-iosxr-k9-25.2.21.tar
NCS 5500 IOS XR Software	NCS5500-iosxr-25.2.21.tar

Table 4. Packages for Cisco NCS 5700 Series Router, Release 25.2.21

Feature Set	Filename
NCS 5700 IOS XR Software	ncs5700-x64-25.2.21.iso
NCS 5700 IOS XR Software (only k9 RPMs)	ncs5700-k9sec-rpms.25.2.21.tar
NCS 5700 IOS XR Software Optional Package	NCS5700-optional-rpms.25.2.21.tar This TAR file contains the following RPMS: optional-rpms/cdp/* optional-rpms/eigrp/* optional-rpms/telnet/*

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Related resources

Table 5. Related resources

Resource	Description
Cisco feature finder	Assists in locating features introduced across Cisco IOS XR releases and platforms.
Smart licensing	Provides information about Smart Licensing Using Policy solutions and their deployment on IOS XR routers.
Cisco NCS 5500 documentation	Provides CDC documentation for Cisco NCS 5500 series routers.
Transceiver Module Group (TMG) compatibility matrix	Allows searching by product family, product ID, data rate, reach, cable type, or form factor to determine the transceivers that Cisco hardware device supports.
Cisco IOS XR Error messages	Allows searching by release number, error strings, or comparing release numbers to view a detailed repository of error messages and descriptions.
Cisco IOS XR MIBs	Allows selecting the MIB of your choice from a drop-down to explore an extensive repository of MIB information.
Yang data models in GitHub	Provides yang data models introduced and enhanced in every IOS XR release.
Recommended release	Provides a general guide in case of upgrading IOS XR routers or new deployments that involve IOS XR routers.

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