



Release Notes for Cisco NCS 560 Series Routers, Cisco IOS XR Release 26.1.1

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Cisco NCS 560 Series Routers, Release 26.1.1

Cisco IOS XR Release 26.1.1 is a new feature release 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

Table 1. New software features for NCS 560 Series Routers, Release 26.1.1

Product impact	Feature	Description
Segment Routing		
Ease of Use	BFD CPU offload support for IPv6	You can now enable CPU offloading for IPv6 BFD sessions, allowing the CPU to handle packet transmission and reception directly. This feature provides you the flexibility to choose between hardware-offloaded and CPU-offloaded IPv6 BFD sessions based on your requirements.
System Security		
Software Reliability	Strengthened SSH Host Key Generation with RSA 3072	This update enhances device security by automatically generating RSA 3072-bit SSH host keys during system boot, replacing the previous default of RSA 2048-bit keys. The stronger key size aligns with industry best practices and provides improved cryptographic protection, ensuring secure SSH access and compliance with future security requirements.
Software Reliability	Syslog warnings for RSA keys and DSA keys	This enhancement ensures Cisco IOS XR devices comply with evolving security standards by sending syslog warnings if weak SSH host keys are found during system reboot where an Rivest, Shamir, and Adelman (RSA) key less than 3072 bits or any Digital Signature Algorithm (DSA) keys are detected. The default RSA key size has been increased from 2048 to 3072 bits to strengthen security. Additionally, DSA keys are no longer auto-generated at boot, and if found, a syslog warning prompts their removal to align with current best practices.

New hardware

There is no new hardware introduced in this release.

Changes in behavior

This section provides a brief description of the behavior changes introduced in this release.

- Starting with the Cisco IOS XR Software Release 26.1.1, if the route-policy applied to the eBGP neighbor includes the **set next-hop unchanged** command, the system preserves and advertises both the received remote SRv6 SID and the remote next-hop when advertising the leaked route from GRT to the VRF table. The local SRv6 SID is no longer always sent.

Open issues

There are no open issues in this release.

Known Issues

- During the software upgrade to 26.1.1, the system may not complete the Auto-FPD upgrade as expected. After the software upgrade, the FPD status shows 'RLOAD REQ', indicating that you must perform an additional reload to activate the updated FPD.

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 2. Compatibility matrix for Cisco NCS 560 Series Routers, Release 26.1.1

Cisco IOS XR	Crosswork	EPNM
Release 26.1.1	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.-WIP

```
Router# show version
Fri Feb 27 01:14:06.297 PST
Cisco IOS XR Software, Version 26.1.1
Copyright (c) 2013-2026 by Cisco Systems, Inc.
```

Build Information:

```
Built By      : swtools
Built On     : Wed Feb 25 05:28:06 PST 2026
Built Host   : iox-lnx-118
Workspace    : /auto/srcarchive12/prod/26.1.1/ncs560/ws
Version      : 26.1.1
Location     : /opt/cisco/XR/packages/
Label       : 26.1.1-iso
```

```
cisco NCS-560 () processor
System uptime is 4 hours 34 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-26.1.1.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-r2611.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-r2611.x86_64.rpm	Supports OSPF
Cisco IOS XR Security Package	ncs560-k9sec-1.0.0.0-r2611.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).
Multicast Package	ncs560-mcast-1.0.0.0-r2611.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-r2611.x86_64.rpm	Supports Intermediate System to Intermediate System (IS-IS).
Cisco IOS XR USB Boot Package	ncs560-usb_boot-26.1.1.zip	Supports Cisco IOS XR USB Boot Package
Cisco IOS XR MPLS Package	ncs560-mpls-1.0.0.0-r2611.x86_64.rpm ncs560-mpls-te-rsvp-1.0.0.0-r2611.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).

Feature Set	Filename	Description
Cisco IOS XR LI Package	ncs560-li-1.0.0.0-r2611.x86_64.rpm	Lawful Intercept
Cisco IOS XR EIGRP Package	ncs560-eigrp-1.0.0.0-r2611.x86_64.rpm	(Optional) Includes EIGRP protocol support software

Related resources

Table 3. Related resources

Document	Description
Cisco feature finder	An interactive tool that assists in locating features introduced across Cisco IOS XR releases and platforms.
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.
Cisco NCS 560 documentation	CCO Documentation for Cisco NCS 560 Series Routers
Feature deprecation and removal details	Outlines the features currently supported by each operating system.
Feature deprecation phasing out insecure capabilities	Provides a list of insecure features and protocols that are scheduled for systematic deprecation and eventual removal from specified Cisco products.
Feature removal and suggested alternatives	Details the reasons why certain features or protocols are deemed insecure and offers secure alternatives when available.
Smart licensing	Information about Smart Licensing Using Policy solutions and their deployment on IOS XR Routers.
Transceiver Module Group (TMG) compatibility matrix	Search by product family, product ID, data rate, reach, cable type, or form factor to determine the transceivers that Cisco hardware device supports.
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.
Yang data models in Github	Repository containing the folders with yang data models introduced and enhanced in every IOS XR release.

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