

Release Notes for Cisco NCS 5500 Series Routers, IOS XR Release 24.2.21

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Revised: September 1, 2025

Network Convergence System 5500 Series Routers

What's New in Cisco IOS XR Release 24.2.21

Cisco IOS XR Release 24.2.21 is a service pack release 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.

Caveats

There are no caveats in this release.

Release Package

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 Service Pack images.

Table 1: Release 24.2.21 Packages for Cisco NCS 5500 Series Router

Composite Package		
Feature Set	**Filename**	**Description**
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		
Feature Set	**Filename**	**Description**
Cisco IOS XR Manageability Package	ncs5500-mgbl-3.0.0.0-r24221.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-r24221.x86_64.rpm ncs5500-mpls-te-rsvp-2.2.0.0-r24221.x86_64.rpm	MPLS and MPLS Traffic Engineering (MPLS-TE) RPM.

Cisco IOS XR Security Package	ncs5500-k9sec-3.1.0.0-r24221.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-r24221.x86_64.rpm	Support ISIS
Cisco IOS XR OSPF package	ncs5500-ospf-2.0.0.0-r24221.x86_64.rpm	Support OSPF
Lawful Intercept (LI) Package	ncs5500-li-1.0.0.0-r24221.x86_64.rpm	Includes LI software images
Multicast Package	ncs5500-mcast-1.0.0.0-r24221.x86_64rpm	Support Multicast
EIGRP	ncs5500-eigrp-1.0.0.0-r24221.x86_64.rpm	Supports Enhanced Interior Gateway Routing Protocol
Lawful Intercept Control	ncs5500-lictrl-1.0.0.0-r24221x86_64.rpm	Supports Lawful Intercept Control
Healthcheck	ncs5500-healthcheck-1.0.0.0-r24221.x86_64.rpm	Supports System Health Check

Table 2: Release 24.2.21 TAR files for Cisco NCS 5500 Series Router

Feature Set	Filename
NCS 5500 IOS XR Software 3DES	NCS5500-iosxr-k9-24.2.21.tar
NCS 5500 IOS XR Software	NCS5500-iosxr-24.2.21.tar
NCS 5500 IOS XR Software	NCS5500-docs-24.2.21.tar

Table 3: Release 24.2.21 Packages for Cisco NCS 5700 Series Router

Feature Set	Filename
NCS 5700 IOS XR Software	ncs5700-x64-24.2.21.iso
NCS 5700 IOS XR Software (only k9 RPMs)	ncs5700-k9sec-rpms.24.2.21.tar
NCS 5700 IOS XR Software Optional Package	NCS5700-optional-rpms.24.2.21.tar This TAR file contains the following RPMS: • optional-rpms/cdp/* • optional-rpms/eigrp/* • optional-rpms/telnet/*

Determine Software Version

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

```
Router# show version
Cisco IOS XR Software, Version 24.2.21
Copyright (c) 2013-2025 by Cisco Systems, Inc.
```

```
Build Information:
 Built By     : swtools
 Built On     : Wed Apr 30 18:35:07 PDT 2025
 Built Host   : iox-ucs-032
 Workspace    : /auto/srcarchive10/prod/24.2.21/ncs5500/ws
 Version      : 24.2.21
 Location     : /opt/cisco/XR/packages/
 Label        : 24.2.21

cisco NCS-5500 () processor
System uptime is 2 hours 19 minutes
```

Determine Firmware Support

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.

NCS 5500 Fixed Port Routers

```
Router# show fpd package
============================== ================================================
                                      Field Programmable Device Package
                                ================================================
                                          Req      SW          Min Req     Min Req
Card Type            FPD Description      Reload   Ver         SW Ver      Board Ver
==================== ==================== ======= ========  ==========  =========
NC55-12X100G-SE-PR   Bootloader            YES      1.20        1.20       0.0
                     IOFPGA                YES      0.12        0.12       0.0
                     SATA-INTEL_240G       NO     1132.00     1132.00      0.0
                     SATA-INTEL_480G       NO     1132.00     1132.00      0.0
                     SATA-M500IT-MC        NO       3.00        3.00       0.0
                     SATA-M500IT-MU-A      NO       5.00        5.00       0.0
                     SATA-M500IT-MU-B      NO       4.00        4.00       0.0
                     SATA-M5100            NO      75.00       75.00       0.0
                     SATA-M600-MCT         NO       5.00        5.00       0.0
                     SATA-M600-MU          NO       6.00        6.00       0.0
                     SATA-Micron           NO       1.00        1.00       0.0
                     SATA-SMART-128G       NO     1535.00     1535.00      0.0
                     SATA-SOLIDIGM-240G    NO     130.00      130.00       0.0
                     SATA-SOLIDIGM-480G    NO     130.00      130.00       0.0
-------------------------------------------------------------------------------
NC55-12X100GE-PROT   Bootloader            YES      1.22        1.22       0.0
                     IOFPGA                YES      0.15        0.15       0.0
                     SATA-INTEL_240G       NO     1132.00     1132.00      0.0
                     SATA-INTEL_480G       NO     1132.00     1132.00      0.0
                     SATA-M500IT-MC        NO       3.00        3.00       0.0
                     SATA-M500IT-MU-A      NO       5.00        5.00       0.0
                     SATA-M500IT-MU-B      NO       4.00        4.00       0.0
                     SATA-M5100            NO      75.00       75.00       0.0
                     SATA-M600-MCT         NO       5.00        5.00       0.0
                     SATA-M600-MU          NO       6.00        6.00       0.0
                     SATA-Micron           NO       1.00        1.00       0.0
                     SATA-SMART-128G       NO     1535.00     1535.00      0.0
                     SATA-SOLIDIGM-240G    NO     130.00      130.00       0.0
                     SATA-SOLIDIGM-480G    NO     130.00      130.00       0.0
-------------------------------------------------------------------------------
NC55-18H18F          Bootloader            YES      1.20        1.20       0.0
                     IOFPGA                YES      0.22        0.22       0.0
                     SATA-INTEL_240G       NO     1132.00     1132.00      0.0
```

	SATA-INTEL_480G	NO	1132.00	1132.00	0.0
	SATA-M500IT-MC	NO	3.00	3.00	0.0
	SATA-M500IT-MU-A	NO	5.00	5.00	0.0
	SATA-M500IT-MU-B	NO	4.00	4.00	0.0
	SATA-M5100	NO	75.00	75.00	0.0
	SATA-M600-MCT	NO	5.00	5.00	0.0
	SATA-M600-MU	NO	6.00	6.00	0.0
	SATA-Micron	NO	1.00	1.00	0.0
	SATA-SMART-128G	NO	1535.00	1535.00	0.0
	SATA-SOLIDIGM-240G	NO	130.00	130.00	0.0
	SATA-SOLIDIGM-480G	NO	130.00	130.00	0.0
NC55-24H12F-SE	Bootloader	YES	1.20	1.20	0.0
	IOFPGA	YES	0.09	0.09	0.0
	SATA-INTEL_240G	NO	1132.00	1132.00	0.0
	SATA-INTEL_480G	NO	1132.00	1132.00	0.0
	SATA-M500IT-MC	NO	3.00	3.00	0.0
	SATA-M500IT-MU-A	NO	5.00	5.00	0.0
	SATA-M500IT-MU-B	NO	4.00	4.00	0.0
	SATA-M5100	NO	75.00	75.00	0.0
	SATA-M600-MCT	NO	5.00	5.00	0.0
	SATA-M600-MU	NO	6.00	6.00	0.0
	SATA-Micron	NO	1.00	1.00	0.0
	SATA-SMART-128G	NO	1535.00	1535.00	0.0
	SATA-SOLIDIGM-240G	NO	130.00	130.00	0.0
	SATA-SOLIDIGM-480G	NO	130.00	130.00	0.0
NC55-24X100G-SE	Bootloader	YES	1.20	1.20	0.0
	IOFPGA	YES	0.13	0.13	0.0
	SATA-INTEL_240G	NO	1132.00	1132.00	0.0
	SATA-INTEL_480G	NO	1132.00	1132.00	0.0
	SATA-M500IT-MC	NO	3.00	3.00	0.0
	SATA-M500IT-MU-A	NO	5.00	5.00	0.0
	SATA-M500IT-MU-B	NO	4.00	4.00	0.0
	SATA-M5100	NO	75.00	75.00	0.0
	SATA-M600-MCT	NO	5.00	5.00	0.0
	SATA-M600-MU	NO	6.00	6.00	0.0
	SATA-Micron	NO	1.00	1.00	0.0
	SATA-SMART-128G	NO	1535.00	1535.00	0.0
	SATA-SOLIDIGM-240G	NO	130.00	130.00	0.0
	SATA-SOLIDIGM-480G	NO	130.00	130.00	0.0
NC55-32T16Q4H-A	Bootloader	YES	0.05	0.05	0.0
	DBFPGA	YES	0.14	0.14	0.0
	IOFPGA	YES	0.95	0.95	0.0
	SATA-INTEL_240G	NO	1132.00	1132.00	0.0
	SATA-INTEL_480G	NO	1132.00	1132.00	0.0
	SATA-M500IT-MC	NO	3.00	3.00	0.0
	SATA-M500IT-MU-A	NO	5.00	5.00	0.0
	SATA-M500IT-MU-B	NO	4.00	4.00	0.0
	SATA-M5100	NO	75.00	75.00	0.0
	SATA-M600-MCT	NO	5.00	5.00	0.0
	SATA-M600-MU	NO	6.00	6.00	0.0
	SATA-Micron	NO	1.00	1.00	0.0
	SATA-SMART-128G	NO	1535.00	1535.00	0.0
	SATA-SOLIDIGM-240G	NO	130.00	130.00	0.0
	SATA-SOLIDIGM-480G	NO	130.00	130.00	0.0
NC55-32T16Q4H-AT	Bootloader	YES	0.05	0.05	0.0
	DBFPGA	YES	0.14	0.14	0.0
	IOFPGA	YES	0.95	0.95	0.0
	SATA-INTEL_240G	NO	1132.00	1132.00	0.0
	SATA-INTEL_480G	NO	1132.00	1132.00	0.0
	SATA-M500IT-MC	NO	3.00	3.00	0.0

	SATA-M500IT-MU-A	NO	5.00	5.00	0.0
	SATA-M500IT-MU-B	NO	4.00	4.00	0.0
	SATA-M5100	NO	75.00	75.00	0.0
	SATA-M600-MCT	NO	5.00	5.00	0.0
	SATA-M600-MU	NO	6.00	6.00	0.0
	SATA-Micron	NO	1.00	1.00	0.0
	SATA-SMART-128G	NO	1535.00	1535.00	0.0
	SATA-SOLIDIGM-240G	NO	130.00	130.00	0.0
	SATA-SOLIDIGM-480G	NO	130.00	130.00	0.0
NC55-36X100G	Bootloader	YES	1.22	1.22	0.0
	IOFPGA	YES	0.15	0.15	0.0
	SATA-INTEL_240G	NO	1132.00	1132.00	0.0
	SATA-INTEL_480G	NO	1132.00	1132.00	0.0
	SATA-M500IT-MC	NO	3.00	3.00	0.0
	SATA-M500IT-MU-A	NO	5.00	5.00	0.0
	SATA-M500IT-MU-B	NO	4.00	4.00	0.0
	SATA-M5100	NO	75.00	75.00	0.0
	SATA-M600-MCT	NO	5.00	5.00	0.0
	SATA-M600-MU	NO	6.00	6.00	0.0
	SATA-Micron	NO	1.00	1.00	0.0
	SATA-SMART-128G	NO	1535.00	1535.00	0.0
	SATA-SOLIDIGM-240G	NO	130.00	130.00	0.0
	SATA-SOLIDIGM-480G	NO	130.00	130.00	0.0
NC55-36X100G-A-SE	Bootloader	YES	0.15	0.15	0.0
	DBFPGA	YES	0.14	0.14	0.0
	IOFPGA	YES	0.26	0.26	0.0
	SATA-INTEL_240G	NO	1132.00	1132.00	0.0
	SATA-INTEL_480G	NO	1132.00	1132.00	0.0
	SATA-M500IT-MC	NO	3.00	3.00	0.0
	SATA-M500IT-MU-A	NO	5.00	5.00	0.0
	SATA-M500IT-MU-B	NO	4.00	4.00	0.0
	SATA-M5100	NO	75.00	75.00	0.0
	SATA-M600-MCT	NO	5.00	5.00	0.0
	SATA-M600-MU	NO	6.00	6.00	0.0
	SATA-Micron	NO	1.00	1.00	0.0
	SATA-SMART-128G	NO	1535.00	1535.00	0.0
	SATA-SOLIDIGM-240G	NO	130.00	130.00	0.0
	SATA-SOLIDIGM-480G	NO	130.00	130.00	0.0
NC55-36X100G-S	Bootloader	YES	1.20	1.20	0.0
	IOFPGA	YES	0.12	0.12	0.0
	SATA-INTEL_240G	NO	1132.00	1132.00	0.0
	SATA-INTEL_480G	NO	1132.00	1132.00	0.0
	SATA-M500IT-MC	NO	3.00	3.00	0.0
	SATA-M500IT-MU-A	NO	5.00	5.00	0.0
	SATA-M500IT-MU-B	NO	4.00	4.00	0.0
	SATA-M5100	NO	75.00	75.00	0.0
	SATA-M600-MCT	NO	5.00	5.00	0.0
	SATA-M600-MU	NO	6.00	6.00	0.0
	SATA-Micron	NO	1.00	1.00	0.0
	SATA-SMART-128G	NO	1535.00	1535.00	0.0
	SATA-SOLIDIGM-240G	NO	130.00	130.00	0.0
	SATA-SOLIDIGM-480G	NO	130.00	130.00	0.0
NC55-5504-FC	Bootloader	YES	1.75	1.75	0.0
	IOFPGA	YES	0.10	0.10	0.0
NC55-5504-FC2	Bootloader	YES	1.14	1.14	0.0
	IOFPGA	YES	0.49	0.49	0.0
	SATA-INTEL_240G	NO	1132.00	1132.00	0.0
	SATA-INTEL_480G	NO	1132.00	1132.00	0.0
	SATA-M500IT-MC	NO	3.00	3.00	0.0

	SATA-M500IT-MU-A	NO	5.00	5.00	0.0
	SATA-M500IT-MU-B	NO	4.00	4.00	0.0
	SATA-M5100	NO	75.00	75.00	0.0
	SATA-M600-MCT	NO	5.00	5.00	0.0
	SATA-M600-MU	NO	6.00	6.00	0.0
	SATA-Micron	NO	1.00	1.00	0.0
	SATA-SMART-128G	NO	1535.00	1535.00	0.0
	SATA-SOLIDIGM-240G	NO	130.00	130.00	0.0
	SATA-SOLIDIGM-480G	NO	130.00	130.00	0.0
NC55-5508-FC	Bootloader	YES	1.74	1.74	0.0
	IOFPGA	YES	0.17	0.17	0.0
NC55-5508-FC2	Bootloader	YES	1.80	1.80	0.0
	IOFPGA	YES	0.20	0.20	0.0
	SATA-INTEL_240G	NO	1132.00	1132.00	0.0
	SATA-INTEL_480G	NO	1132.00	1132.00	0.0
	SATA-M500IT-MC	NO	3.00	3.00	0.0
	SATA-M500IT-MU-A	NO	5.00	5.00	0.0
	SATA-M500IT-MU-B	NO	4.00	4.00	0.0
	SATA-M5100	NO	75.00	75.00	0.0
	SATA-M600-MCT	NO	5.00	5.00	0.0
	SATA-M600-MU	NO	6.00	6.00	0.0
	SATA-Micron	NO	1.00	1.00	0.0
	SATA-SMART-128G	NO	1535.00	1535.00	0.0
	SATA-SOLIDIGM-240G	NO	130.00	130.00	0.0
	SATA-SOLIDIGM-480G	NO	130.00	130.00	0.0
NC55-5516-FC	Bootloader	YES	1.75	1.75	0.0
	IOFPGA	YES	0.27	0.27	0.0
NC55-5516-FC2	Bootloader	YES	1.80	1.80	0.0
	IOFPGA	YES	0.24	0.24	0.0
	SATA-INTEL_240G	NO	1132.00	1132.00	0.0
	SATA-INTEL_480G	NO	1132.00	1132.00	0.0
	SATA-M500IT-MC	NO	3.00	3.00	0.0
	SATA-M500IT-MU-A	NO	5.00	5.00	0.0
	SATA-M500IT-MU-B	NO	4.00	4.00	0.0
	SATA-M5100	NO	75.00	75.00	0.0
	SATA-M600-MCT	NO	5.00	5.00	0.0
	SATA-M600-MU	NO	6.00	6.00	0.0
	SATA-Micron	NO	1.00	1.00	0.0
	SATA-SMART-128G	NO	1535.00	1535.00	0.0
	SATA-SOLIDIGM-240G	NO	130.00	130.00	0.0
	SATA-SOLIDIGM-480G	NO	130.00	130.00	0.0
NC55-6X100GE-PROT	Bootloader	YES	1.22	1.22	0.0
	IOFPGA	YES	0.15	0.15	0.0
	SATA-INTEL_240G	NO	1132.00	1132.00	0.0
	SATA-INTEL_480G	NO	1132.00	1132.00	0.0
	SATA-M500IT-MC	NO	3.00	3.00	0.0
	SATA-M500IT-MU-A	NO	5.00	5.00	0.0
	SATA-M500IT-MU-B	NO	4.00	4.00	0.0
	SATA-M5100	NO	75.00	75.00	0.0
	SATA-M600-MCT	NO	5.00	5.00	0.0
	SATA-M600-MU	NO	6.00	6.00	0.0
	SATA-Micron	NO	1.00	1.00	0.0
	SATA-SMART-128G	NO	1535.00	1535.00	0.0
	SATA-SOLIDIGM-240G	NO	130.00	130.00	0.0
	SATA-SOLIDIGM-480G	NO	130.00	130.00	0.0
NC55-6X200-DWDM-S	Bootloader	YES	1.20	1.20	0.0
	IOFPGA	YES	0.14	0.14	0.0
	SATA-INTEL_240G	NO	1132.00	1132.00	0.0

	SATA-INTEL_480G	NO	1132.00	1132.00	0.0
	SATA-M500IT-MC	NO	3.00	3.00	0.0
	SATA-M500IT-MU-A	NO	5.00	5.00	0.0
	SATA-M500IT-MU-B	NO	4.00	4.00	0.0
	SATA-M5100	NO	75.00	75.00	0.0
	SATA-M600-MCT	NO	5.00	5.00	0.0
	SATA-M600-MU	NO	6.00	6.00	0.0
	SATA-Micron	NO	1.00	1.00	0.0
	SATA-SMART-128G	NO	1535.00	1535.00	0.0
	SATA-SOLIDIGM-240G	NO	130.00	130.00	0.0
	SATA-SOLIDIGM-480G	NO	130.00	130.00	0.0
NC55-MOD-A-S	Bootloader	YES	1.03	1.03	0.0
	DBFPGA	YES	0.14	0.14	0.0
	IOFPGA	YES	0.14	0.14	0.0
	SATA-INTEL_240G	NO	1132.00	1132.00	0.0
	SATA-INTEL_480G	NO	1132.00	1132.00	0.0
	SATA-M500IT-MC	NO	3.00	3.00	0.0
	SATA-M500IT-MU-A	NO	5.00	5.00	0.0
	SATA-M500IT-MU-B	NO	4.00	4.00	0.0
	SATA-M5100	NO	75.00	75.00	0.0
	SATA-M600-MCT	NO	5.00	5.00	0.0
	SATA-M600-MU	NO	6.00	6.00	0.0
	SATA-Micron	NO	1.00	1.00	0.0
	SATA-SMART-128G	NO	1535.00	1535.00	0.0
	SATA-SOLIDIGM-240G	NO	130.00	130.00	0.0
	SATA-SOLIDIGM-480G	NO	130.00	130.00	0.0
NC55-MOD-A-SE-S	Bootloader	YES	1.03	1.03	0.0
	DBFPGA	YES	0.14	0.14	0.0
	IOFPGA	YES	0.14	0.14	0.0
	SATA-INTEL_240G	NO	1132.00	1132.00	0.0
	SATA-INTEL_480G	NO	1132.00	1132.00	0.0
	SATA-M500IT-MC	NO	3.00	3.00	0.0
	SATA-M500IT-MU-A	NO	5.00	5.00	0.0
	SATA-M500IT-MU-B	NO	4.00	4.00	0.0
	SATA-M5100	NO	75.00	75.00	0.0
	SATA-M600-MCT	NO	5.00	5.00	0.0
	SATA-M600-MU	NO	6.00	6.00	0.0
	SATA-Micron	NO	1.00	1.00	0.0
	SATA-SMART-128G	NO	1535.00	1535.00	0.0
	SATA-SOLIDIGM-240G	NO	130.00	130.00	0.0
	SATA-SOLIDIGM-480G	NO	130.00	130.00	0.0
NC55-PWR-3KW-2HV	DT-LogicMCU	NO	3.01	3.01	0.2
	DT-PriMCU	NO	3.00	3.00	0.2
	DT-SecMCU	NO	3.01	3.01	0.2
NC55-PWR-3KW-DC	DT-SecMCU	NO	4.12	4.12	0.1
NC55-PWR-4.4KW-DC	QCS-LogicMCU	NO	3.00	3.00	0.1
	QCS-PriMCU	NO	3.00	3.00	0.1
	QCS-SecMCU	NO	3.00	3.00	0.1
NC55-RP	Bootloader	YES	9.31	9.31	0.0
	IOFPGA	YES	0.09	0.09	0.0
	SATA-INTEL_240G	NO	1132.00	1132.00	0.0
	SATA-INTEL_480G	NO	1132.00	1132.00	0.0
	SATA-M500IT-MC	NO	3.00	3.00	0.0
	SATA-M500IT-MU-A	NO	5.00	5.00	0.0
	SATA-M500IT-MU-B	NO	4.00	4.00	0.0
	SATA-M5100	NO	75.00	75.00	0.0
	SATA-M600-MCT	NO	5.00	5.00	0.0
	SATA-M600-MU	NO	6.00	6.00	0.0

	SATA-Micron	NO	1.00	1.00	0.0
	SATA-SMART-128G	NO	1535.00	1535.00	0.0
	SATA-SOLIDIGM-240G	NO	130.00	130.00	0.0
	SATA-SOLIDIGM-480G	NO	130.00	130.00	0.0
NC55-RP-E	Bootloader	YES	1.24	1.24	0.0
	IOFPGA	YES	0.23	0.23	0.0
	OMGFPGA	YES	0.61	0.61	0.0
	SATA-INTEL_240G	NO	1132.00	1132.00	0.0
	SATA-INTEL_480G	NO	1132.00	1132.00	0.0
	SATA-M500IT-MC	NO	3.00	3.00	0.0
	SATA-M500IT-MU-A	NO	5.00	5.00	0.0
	SATA-M500IT-MU-B	NO	4.00	4.00	0.0
	SATA-M5100	NO	75.00	75.00	0.0
	SATA-M600-MCT	NO	5.00	5.00	0.0
	SATA-M600-MU	NO	6.00	6.00	0.0
	SATA-Micron	NO	1.00	1.00	0.0
	SATA-SMART-128G	NO	1535.00	1535.00	0.0
	SATA-SOLIDIGM-240G	NO	130.00	130.00	0.0
	SATA-SOLIDIGM-480G	NO	130.00	130.00	0.0
NC55-RP-PROTO	Bootloader	YES	9.31	9.31	0.0
	IOFPGA	YES	0.06	0.06	0.0
	SATA-INTEL_240G	NO	1132.00	1132.00	0.0
	SATA-INTEL_480G	NO	1132.00	1132.00	0.0
	SATA-M500IT-MC	NO	3.00	3.00	0.0
	SATA-M500IT-MU-A	NO	5.00	5.00	0.0
	SATA-M500IT-MU-B	NO	4.00	4.00	0.0
	SATA-M5100	NO	75.00	75.00	0.0
	SATA-M600-MCT	NO	5.00	5.00	0.0
	SATA-M600-MU	NO	6.00	6.00	0.0
	SATA-Micron	NO	1.00	1.00	0.0
	SATA-SMART-128G	NO	1535.00	1535.00	0.0
	SATA-SOLIDIGM-240G	NO	130.00	130.00	0.0
	SATA-SOLIDIGM-480G	NO	130.00	130.00	0.0
NC55-RP2-E	Bootloader	YES	0.08	0.08	0.0
	IOFPGA	YES	0.50	0.50	0.0
	OMGFPGA	YES	0.52	0.52	0.0
	SATA-INTEL_240G	NO	1132.00	1132.00	0.0
	SATA-INTEL_480G	NO	1132.00	1132.00	0.0
	SATA-M500IT-MC	NO	3.00	3.00	0.0
	SATA-M500IT-MU-A	NO	5.00	5.00	0.0
	SATA-M500IT-MU-B	NO	4.00	4.00	0.0
	SATA-M5100	NO	75.00	75.00	0.0
	SATA-M600-MCT	NO	5.00	5.00	0.0
	SATA-M600-MU	NO	6.00	6.00	0.0
	SATA-Micron	NO	1.00	1.00	0.0
	SATA-SMART-128G	NO	1535.00	1535.00	0.0
	SATA-SOLIDIGM-240G	NO	130.00	130.00	0.0
	SATA-SOLIDIGM-480G	NO	130.00	130.00	0.0
NC55-SC	Bootloader	YES	1.74	1.74	0.0
	IOFPGA	YES	0.11	0.11	0.0
NC57-1600W-ACFW	PriMCU-ACFW	NO	1.02	1.02	0.0
	SecMCU-ACFW	NO	1.07	1.07	0.0
NC57-1600W-DCFW	PriMCU-DCFW	NO	1.07	1.00	0.0
NC57-18DD-SE	Bootloader	YES	1.03	1.03	0.0
	DBFPGA	YES	0.14	0.14	0.0
	IOFPGA	YES	0.24	0.24	0.0
	SATA-INTEL_240G	NO	1132.00	1132.00	0.0

```
                  SATA-INTEL_480G           NO    1132.00     1132.00      0.0
                  SATA-M500IT-MC            NO      3.00        3.00       0.0
                  SATA-M500IT-MU-A          NO      5.00        5.00       0.0
                  SATA-M500IT-MU-B          NO      4.00        4.00       0.0
                  SATA-M5100                NO     75.00       75.00       0.0
                  SATA-M600-MCT             NO      5.00        5.00       0.0
                  SATA-M600-MU              NO      6.00        6.00       0.0
                  SATA-Micron               NO      1.00        1.00       0.0
                  SATA-SMART-128G           NO    1535.00     1535.00      0.0
                  SATA-SOLIDIGM-240G        NO    130.00      130.00       0.0
                  SATA-SOLIDIGM-480G        NO    130.00      130.00       0.0
-------------------------------------------------------------------------------
NC57-24DD         Bootloader                YES     1.03        1.03       0.0
                  DBFPGA                    YES     0.14        0.14       0.0
                  IOFPGA                    YES     0.24        0.24       0.0
                  SATA-INTEL_240G           NO    1132.00     1132.00      0.0
                  SATA-INTEL_480G           NO    1132.00     1132.00      0.0
                  SATA-M500IT-MC            NO      3.00        3.00       0.0
                  SATA-M500IT-MU-A          NO      5.00        5.00       0.0
                  SATA-M500IT-MU-B          NO      4.00        4.00       0.0
                  SATA-M5100                NO     75.00       75.00       0.0
                  SATA-M600-MCT             NO      5.00        5.00       0.0
                  SATA-M600-MU              NO      6.00        6.00       0.0
                  SATA-Micron               NO      1.00        1.00       0.0
                  SATA-SMART-128G           NO    1535.00     1535.00      0.0
                  SATA-SOLIDIGM-240G        NO    130.00      130.00       0.0
                  SATA-SOLIDIGM-480G        NO    130.00      130.00       0.0
-------------------------------------------------------------------------------
NC57-36H-SE       Bootloader                YES     1.03        1.03       0.0
                  DBFPGA                    YES     0.14        0.14       0.0
                  IOFPGA                    YES     0.12        0.12       0.0
                  SATA-INTEL_240G           NO    1132.00     1132.00      0.0
                  SATA-INTEL_480G           NO    1132.00     1132.00      0.0
                  SATA-M500IT-MC            NO      3.00        3.00       0.0
                  SATA-M500IT-MU-A          NO      5.00        5.00       0.0
                  SATA-M500IT-MU-B          NO      4.00        4.00       0.0
                  SATA-M5100                NO     75.00       75.00       0.0
                  SATA-M600-MCT             NO      5.00        5.00       0.0
                  SATA-M600-MU              NO      6.00        6.00       0.0
                  SATA-Micron               NO      1.00        1.00       0.0
                  SATA-SMART-128G           NO    1535.00     1535.00      0.0
                  SATA-SOLIDIGM-240G        NO    130.00      130.00       0.0
                  SATA-SOLIDIGM-480G        NO    130.00      130.00       0.0
-------------------------------------------------------------------------------
NC57-36H6D-S      Bootloader                YES     0.02        0.02       0.0
                  DBFPGA                    YES     0.14        0.14       0.0
                  IOFPGA                    YES     0.47        0.47       0.0
                  SATA-INTEL_240G           NO    1132.00     1132.00      0.0
                  SATA-INTEL_480G           NO    1132.00     1132.00      0.0
                  SATA-M500IT-MC            NO      3.00        3.00       0.0
                  SATA-M500IT-MU-A          NO      5.00        5.00       0.0
                  SATA-M500IT-MU-B          NO      4.00        4.00       0.0
                  SATA-M5100                NO     75.00       75.00       0.0
                  SATA-M600-MCT             NO      5.00        5.00       0.0
                  SATA-M600-MU              NO      6.00        6.00       0.0
                  SATA-Micron               NO      1.00        1.00       0.0
                  SATA-SMART-128G           NO    1535.00     1535.00      0.0
                  SATA-SOLIDIGM-240G        NO    130.00      130.00       0.0
                  SATA-SOLIDIGM-480G        NO    130.00      130.00       0.0
-------------------------------------------------------------------------------
NC57-48Q2D-S      ALDRINFPGA                YES     1.06        1.06       0.0
                  Bootloader                YES     1.00        1.00       0.0
                  DBFPGA                    YES     0.14        0.14       0.0
                  IOFPGA                    YES     0.105       0.105      0.0
```

```
                    SATA-INTEL_240G           NO    1132.00     1132.00      0.0
                    SATA-INTEL_480G           NO    1132.00     1132.00      0.0
                    SATA-M500IT-MC            NO      3.00        3.00       0.0
                    SATA-M500IT-MU-A          NO      5.00        5.00       0.0
                    SATA-M500IT-MU-B          NO      4.00        4.00       0.0
                    SATA-M5100                NO     75.00       75.00       0.0
                    SATA-M600-MCT             NO      5.00        5.00       0.0
                    SATA-M600-MU              NO      6.00        6.00       0.0
                    SATA-Micron               NO      1.00        1.00       0.0
                    SATA-SMART-128G           NO    1535.00     1535.00      0.0
                    SATA-SOLIDIGM-240G        NO    130.00      130.00       0.0
                    SATA-SOLIDIGM-480G        NO    130.00      130.00       0.0
-------------------------------------------------------------------------------
NC57-48Q2D-SE-S     ALDRINFPGA                YES     1.06        1.06       0.0
                    Bootloader                YES     1.00        1.00       0.0
                    DBFPGA                    YES     0.14        0.14       0.0
                    IOFPGA                    YES     0.105       0.105      0.0
                    SATA-INTEL_240G           NO    1132.00     1132.00      0.0
                    SATA-INTEL_480G           NO    1132.00     1132.00      0.0
                    SATA-M500IT-MC            NO      3.00        3.00       0.0
                    SATA-M500IT-MU-A          NO      5.00        5.00       0.0
                    SATA-M500IT-MU-B          NO      4.00        4.00       0.0
                    SATA-M5100                NO     75.00       75.00       0.0
                    SATA-M600-MCT             NO      5.00        5.00       0.0
                    SATA-M600-MU              NO      6.00        6.00       0.0
                    SATA-Micron               NO      1.00        1.00       0.0
                    SATA-SMART-128G           NO    1535.00     1535.00      0.0
                    SATA-SOLIDIGM-240G        NO    130.00      130.00       0.0
                    SATA-SOLIDIGM-480G        NO    130.00      130.00       0.0
-------------------------------------------------------------------------------
NC57-MOD-RP2-E      Bootloader                YES     0.14        0.14       0.0
                    SATA-INTEL_240G           NO    1132.00     1132.00      0.0
                    SATA-INTEL_480G           NO    1132.00     1132.00      0.0
                    SATA-M500IT-MC            NO      3.00        3.00       0.0
                    SATA-M500IT-MU-A          NO      5.00        5.00       0.0
                    SATA-M500IT-MU-B          NO      4.00        4.00       0.0
                    SATA-M5100                NO     75.00       75.00       0.0
                    SATA-M600-MCT             NO      5.00        5.00       0.0
                    SATA-M600-MU              NO      6.00        6.00       0.0
                    SATA-Micron               NO      1.00        1.00       0.0
                    SATA-SMART-128G           NO    1535.00     1535.00      0.0
                    SATA-SOLIDIGM-240G        NO    130.00      130.00       0.0
                    SATA-SOLIDIGM-480G        NO    130.00      130.00       0.0
-------------------------------------------------------------------------------
NC57-MOD-S          Bootloader                YES     2.03        2.03       0.0
                    DBFPGA                    YES     0.14        0.14       0.0
                    IOFPGA                    YES     0.42        0.42       0.0
                    SATA-INTEL_240G           NO    1132.00     1132.00      0.0
                    SATA-INTEL_480G           NO    1132.00     1132.00      0.0
                    SATA-M500IT-MC            NO      3.00        3.00       0.0
                    SATA-M500IT-MU-A          NO      5.00        5.00       0.0
                    SATA-M500IT-MU-B          NO      4.00        4.00       0.0
                    SATA-M5100                NO     75.00       75.00       0.0
                    SATA-M600-MCT             NO      5.00        5.00       0.0
                    SATA-M600-MU              NO      6.00        6.00       0.0
                    SATA-Micron               NO      1.00        1.00       0.0
                    SATA-SMART-128G           NO    1535.00     1535.00      0.0
                    SATA-SOLIDIGM-240G        NO    130.00      130.00       0.0
                    SATA-SOLIDIGM-480G        NO    130.00      130.00       0.0
-------------------------------------------------------------------------------
NCS-57C3-MOD-SYS    ALDRINFPGA                YES     1.04        1.04       0.0
                    Bootloader                YES     0.16        0.16       0.0
                    DBFPGA                    YES     0.56        0.56       0.0
                    SATA-INTEL_240G           NO    1132.00     1132.00      0.0
```

```
                    SATA-INTEL_480G           NO    1132.00     1132.00      0.0
                    SATA-M500IT-MC            NO      3.00        3.00       0.0
                    SATA-M500IT-MU-A          NO      5.00        5.00       0.0
                    SATA-M500IT-MU-B          NO      4.00        4.00       0.0
                    SATA-M5100                NO     75.00       75.00       0.0
                    SATA-M600-MCT             NO      5.00        5.00       0.0
                    SATA-M600-MU              NO      6.00        6.00       0.0
                    SATA-Micron               NO      1.00        1.00       0.0
                    SATA-SMART-128G           NO    1535.00     1535.00      0.0
                    SATA-SOLIDIGM-240G        NO    130.00      130.00       0.0
                    SATA-SOLIDIGM-480G        NO    130.00      130.00       0.0
--------------------------------------------------------------------------------
NCS-57C3-MODS-SYS   ALDRINFPGA                YES     1.04        1.04       0.0
                    Bootloader                YES     0.16        0.16       0.0
                    DBFPGA                    YES     0.56        0.56       0.0
                    SATA-INTEL_240G           NO    1132.00     1132.00      0.0
                    SATA-INTEL_480G           NO    1132.00     1132.00      0.0
                    SATA-M500IT-MC            NO      3.00        3.00       0.0
                    SATA-M500IT-MU-A          NO      5.00        5.00       0.0
                    SATA-M500IT-MU-B          NO      4.00        4.00       0.0
                    SATA-M5100                NO     75.00       75.00       0.0
                    SATA-M600-MCT             NO      5.00        5.00       0.0
                    SATA-M600-MU              NO      6.00        6.00       0.0
                    SATA-Micron               NO      1.00        1.00       0.0
                    SATA-SMART-128G           NO    1535.00     1535.00      0.0
                    SATA-SOLIDIGM-240G        NO    130.00      130.00       0.0
                    SATA-SOLIDIGM-480G        NO    130.00      130.00       0.0
--------------------------------------------------------------------------------
```

NCS 5700 Fixed Port Routers

```
Router# show fpd package
================================ ================================================
                                        Field Programmable Device Package
                                 ================================================
                                          Req     SW       Min Req   Min Req
Card Type           FPD Description       Reload  Ver      SW Ver  Board Ver
================== ========================== ====== ======= ======== =========
--------------------------------------------------------------------------------
NCS-57B1-5DSE-SYS   ADM1_Config               NO      0.53      0.53      0.0
                    ADM2_Config               NO      0.53      0.53      0.0
                    ADM3_Config               NO      0.53      0.53      0.0
                    IoFpga                    YES     0.09      0.09      0.0
                    IoFpgaGolden              YES     0.09      0.08      0.0
                    Primary-BIOS              YES     1.11      1.11      0.0
                    StdbyFpga                 YES     0.24      0.24      0.0
                    StdbyFpgaGolden           YES     0.24      0.24      0.0
                    TamFw                     YES     6.05      6.05      0.0
                    TamFwGolden               YES     6.05      6.05      0.0
--------------------------------------------------------------------------------
NCS-57B1-6D24-SYS   ADM1_Config               NO      0.96      0.96      0.0
                    ADM2_Config               NO      0.96      0.96      0.0
                    ADM3_Config               NO      0.96      0.96      0.0
                    IoFpga                    YES     0.09      0.09      0.0
                    IoFpgaGolden              YES     0.09      0.08      0.0
                    Primary-BIOS              YES     1.11      1.11      0.0
                    SsdIntelS4510             YES    11.20     11.20      0.0
                    SsdMicron5300             YES     0.01      0.01      0.0
                    StdbyFpga                 YES     0.24      0.24      0.0
                    StdbyFpgaGolden           YES     0.24      0.24      0.0
                    TamFw                     YES     6.05      6.05      0.0
                    TamFwGolden               YES     6.05      6.05      0.0
--------------------------------------------------------------------------------
NCS-57C1-48Q6-SYS   ADM1_Config               YES     0.07      0.07      0.0
                    ADM2_Config               YES     0.07      0.07      0.0
```

```
                     IoFpga                    YES     0.47      0.47      0.0
                     IoFpgaGolden              YES     0.47      0.47      0.0
                     Primary-BIOS              YES     3.07      3.07      0.0
                     SsdIntelS4510             YES    11.32     11.32      0.0
                     SsdMicron5300             YES     0.01      0.01      0.0
                     StdbyFpga                 YES     0.31      0.31      0.0
                     StdbyFpgaGolden           YES     0.31      0.31      0.0
                     TamFw                     YES     7.10      7.10      0.0
                     TamFwGolden               YES     7.10      7.10      0.0
--------------------------------------------------------------------------------
NCS-57D2-18DD-SYS    ADM1-DBConfig             YES     1.92      1.92      0.0
                     ADM2-DBConfig             YES     1.92      1.92      0.0
                     ADM3-DBConfig             YES     1.92      1.92      0.0
                     ADM4-MBConfig             YES     1.92      1.92      0.0
                     ADM5-MBConfig             YES     1.92      1.92      0.0
                     ADM6-MBConfig             YES     1.92      1.92      0.0
                     FtFpga                    NO      0.20      0.20      0.0
                     FtFpgaGolden              NO      0.20      0.00      0.0
                     IoFpga                    YES     0.06      0.06      0.0
                     IoFpgaDB                  YES     0.07      0.07      0.0
                     IoFpgaGolden              YES     0.05      0.05      0.0
                     IoFpgaGoldenDB            YES     0.05      0.05      0.0
                     Primary-BIOS              YES     4.10      4.10      0.0
                     SsdIntelS4510             YES    11.32     11.32      0.0
                     SsdMicron5300             YES     0.01      0.01      0.0
                     StdbyFpga                 YES     0.96      0.96      0.0
                     StdbyFpgaGolden           YES     0.83      0.83      0.0
                     TamFw                     YES     7.09      7.09      0.0
                     TamFwGolden               YES     7.09      7.09      0.0
--------------------------------------------------------------------------------
PSU1100W-ACPI        EM-PrimMCU                NO      1.01      1.01      0.0
                     EM-SecMCU                 NO      1.05      1.05      0.0
--------------------------------------------------------------------------------
PSU2KW-ACPE          PO-PrimMCU                NO      1.03      1.03      0.0
                     PO-SecMCU                 NO      1.10      1.10      0.0
--------------------------------------------------------------------------------
PSU2KW-ACPI          PO-PrimMCU                NO      1.03      1.03      0.0
                     PO-SecMCU                 NO      1.13      1.13      0.0
--------------------------------------------------------------------------------
PSU2KW-DCPE          PO-PrimMCU                NO      1.11      1.11      0.0
--------------------------------------------------------------------------------
PSU2KW-DCPI          PO-PrimMCU                NO      1.11      1.11      0.0
--------------------------------------------------------------------------------
PSU950W-DCPI         EM-PrimMCU                NO      1.00      1.00      0.0
```

This sample output is for **show hw-module fpd** command from the Admin mode:

```
Router# show hw-module fpd
Location  Card type         HWver FPD device        ATR Status      Run     Programd
--------------------------------------------------------------------------------
0/3       NC57-36H-SE       1.0   Bootloader            CURRENT     1.03      1.03
0/3       NC57-36H-SE       1.0   DBFPGA                CURRENT     0.14      0.14
0/3       NC57-36H-SE       1.0   IOFPGA                CURRENT     0.12      0.12
0/3       NC57-36H-SE       1.0   SATA-Micron           CURRENT     1.00      1.00
0/5       NC57-36H-SE       1.0   Bootloader            CURRENT     1.03      1.03
0/5       NC57-36H-SE       1.0   DBFPGA                CURRENT     0.14      0.14
0/5       NC57-36H-SE       1.0   IOFPGA                CURRENT     0.12      0.12
0/5       NC57-36H-SE       1.0   SATA-Micron           CURRENT     1.00      1.00
0/7       NC57-36H-SE       1.0   Bootloader            CURRENT     1.03      1.03
0/7       NC57-36H-SE       1.0   DBFPGA                CURRENT     0.14      0.14
0/7       NC57-36H-SE       1.0   IOFPGA                CURRENT     0.12      0.12
0/7       NC57-36H-SE       1.0   SATA-Micron           CURRENT     1.00      1.00
0/RP0     NC55-RP2-E        1.0   Bootloader            CURRENT     0.09      0.09
0/RP0     NC55-RP2-E        1.0   IOFPGA                CURRENT     0.50      0.50
0/RP0     NC55-RP2-E        1.0   OMGFPGA               CURRENT     0.52      0.52
```

```
0/RP0     NC55-RP2-E        1.0   SATA-Micron          CURRENT     1.00      1.00
0/RP1     NC55-RP2-E        1.0   Bootloader           CURRENT     0.09      0.09
0/RP1     NC55-RP2-E        1.0   IOFPGA               CURRENT     0.50      0.50
0/RP1     NC55-RP2-E        1.0   OMGFPGA              CURRENT     0.52      0.52
0/RP1     NC55-RP2-E        1.0   SATA-Micron          CURRENT     1.00      1.00
0/FC1     NC55-5508-FC2     1.0   Bootloader           CURRENT     1.80      1.80
0/FC1     NC55-5508-FC2     1.0   IOFPGA               CURRENT     0.20      0.20
0/FC1     NC55-5508-FC2     1.0   SATA-M5100           CURRENT    75.00     75.00
0/FC3     NC55-5508-FC2     1.0   Bootloader           CURRENT     1.80      1.80
0/FC3     NC55-5508-FC2     1.0   IOFPGA               CURRENT     0.20      0.20
0/FC3     NC55-5508-FC2     1.0   SATA-M5100           CURRENT    75.00     75.00
0/FC5     NC55-5508-FC2     1.0   Bootloader           CURRENT     1.80      1.80
0/FC5     NC55-5508-FC2     1.0   IOFPGA               CURRENT     0.20      0.20
0/FC5     NC55-5508-FC2     1.0   SATA-M5100           CURRENT    75.00     75.00
0/SC0     NC55-SC           1.6   Bootloader           CURRENT     1.74      1.74
0/SC0     NC55-SC           1.6   IOFPGA               CURRENT     0.11      0.11
0/SC1     NC55-SC           1.6   Bootloader           CURRENT     1.74      1.74
0/SC1     NC55-SC           1.6   IOFPGA               CURRENT     0.11      0.11
```

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 4: Compatibility Matrix

Cisco IOS XR	Crosswork	EPNM
Release 24.2.21	Crosswork Optimization Engine 7.0	Evolved Programmable Network Manager 8.0

Important Notes

- The total number of bridge-domains (2*BDs) and GRE tunnels put together should not exceed 1518. Here the number 1518 represents the multi-dimensional scale value.
- The offline diagnostics functionality is not supported in NCS 5500 platform. Therefore, the **hw-module service offline location** command will not work. However, you can use the **(sysadmin)# hw-module shutdown location** command to bring down the LC.

Licensing

Starting with Cisco IOS XR Release 24.1.1, Smart Licensing Using Policy (SLP) is the default Licensing model. When you upgrade to the Cisco IOS XR Release 24.1.1 release or later, the Smart Licensing Using Policy is enabled by default.

You can migrate your devices to Smart Licensing with Policy model, see *Migrating from Smart Licensing to Smart Licensing Using Policy*, Smart Licensing Using Policy on Cisco IOS XR Routers.

We recommend that you update to the latest version of SSM On-Prem or Cisco Smart Licensing Utility.

Note SSM On-Prem and CSSM both support SLP devices and SL devices. SLP devices and SL devices can coexist in a network. The Smart Licensing (SL) model is available in releases Cisco IOS XR Release 7.11.1 and earlier.

Supported Transceiver Modules

To determine the transceivers that Cisco hardware device supports, refer to the Transceiver Module Group (TMG) Compatibility Matrix tool.

Upgrading Cisco IOS XR Software

Cisco IOS XR Software is installed and activated from modular packages, allowing specific features or software patches to be installed, upgraded, or downgraded without affecting unrelated processes. Software packages can be upgraded or downgraded on all supported card types, or on a single card (node).

Before starting the software upgrade, use the **show install health** command in the admin mode. This command validates if the statuses of all relevant parameters of the system are ready for the software upgrade without interrupting the system.

Note

- If you use a TAR package to upgrade from a Cisco IOS XR release prior to 7.x, the output of the **show install health** command in admin mode displays the following error messages:

```
sysadmin-vm:0_RSP0# show install health
. . .
ERROR /install_repo/gl/xr -rw-r--r--. 1 8413 floppy 3230320 Mar 14 05:45 <platform>-isis-2.2.0.0-r702.x86_64
ERROR /install_repo/gl/xr -rwxr-x---. 1 8413 165 1485781 Mar 14 06:02 <platform>-k9sec-3.1.0.0-r702.x86_64
ERROR /install_repo/gl/xr -rw-r--r--. 1 8413 floppy 345144 Mar 14 05:45 <platform>-li-1.0.0.0-r702.x86_64
```

You can ignore these messages and proceed with the installation operation.

- Quad configurations will be lost when you perform a software downgrade on a NCS-55A1-48Q6H device from IOS XR Release 7.5.1 onwards to a release prior to IOS XR Release 7.5.1 due to non-backward compatibility change. The lost configuration can be applied manually after the downgrade.

Note A quad is a group of four ports with common speeds, 1G/10G or 25G. You can configure the ports speed for a the **hw-module quad** command.

Production Software Maintenance Updates (SMUs)

A production SMU is a SMU that is formally requested, developed, tested, and released. Production SMUs are intended for use in a live network environment and are formally supported by the Cisco TAC and the relevant development teams. Software bugs identified through software recommendations or Bug Search Tools are not a basis for production SMU requests.

For information on production SMU types, refer the Production SMU Types section of the *IOS XR Software Maintenance Updates (SMUs)* guide.

Cisco IOS XR Error messages

To view, search, compare, and download Cisco IOS XR Error Messages, refer to the Cisco IOS XR Error messages tool.

Cisco IOS XR MIBs

To determine the MIBs supported by platform and release, refer to the Cisco IOS XR MIBs tool.

Related Documentation

The most current Cisco NCS 5500 router documentation is located at the following URL:

https://www.cisco.com/c/en/us/td/docs/iosxr/ios-xr.html

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