Release Notes for Cisco NCS 1000 Series, IOS XR Release 26.1.1

Contents

Cisco NCS 1000 Series, IOS XR Release 26.1.1

Cisco IOS XR Release 26.1.1 is a new feature release for Cisco NCS 1000 Series

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

New software features

This section provides a brief description of the new software features introduced in this release.

Table 1. New software features for Cisco NCS 1000 Series

Product impact	Feature	Description
NCS 1014 Configuration		
Software Reliability	Auto firmware support on trunk optics	NCS 1014 now supports automatic, parallel firmware upgrades for qualified trunk pluggable optics during system boot or software updates. To ensure integrity, the system locks line cards during the upgrade process. You can monitor upgrade status through the show hw-module fpd command, system logs, and alarms. This capability is compatible with all Cisco/Acacia trunk pluggables on these cards: • NCS1K4-QXP-K9 • NCS1K14-EDFA2 • NCS1K14-2.4T-K9 • NCS1K14-2.4T-A-K9 • NCS1K14-2.4T-X-K9 This enhancement simplifies maintenance and increases reliability by automating firmware management across the network.
Software Reliability	Muxponder Slice and Muxponder card modes for NCS1K14-2.4T-A-K9 Line Card	The new NCS1K14-2.4T-A-K9 line card supports both Muxponder Slice and Muxponder card modes, similar to the 2.4T and 2.4TX transponder cards. It can handle 1.2T of data per trunk and supports client data rates of 100GE and 400GE, with the capability to increase up to 800G per client. By grouping multiple client interfaces, muxponder slice and muxponder card modes enhances bandwidth utilization for efficient transport over high-capacity DWDM links.
Software Reliability	OTNSec encryption support on the 2.4TA line card	The 2.4TA line card now supports AES256-based OTNSec encryption across all trunk rates on ODU-FLEX controllers using CIM8-C-K9 pluggable modules, significantly enhancing the security of optical transport networks.
Software Reliability	GCC0 support for NCS1K4-QXP-K9 card	General Communication Channel (GCC0) interface is supported for the DP04QSDD-HK9 pluggable on the NCS1K4-QXP-K9 card. GCC0 interface enables you to remotely manage, monitor, and operate the chassis and line cards, especially in environments without direct Data Communication Network (DCN) access.
NCS 1014 System Setup and Software Installation		
Software reliability	Inventory support	The NCS 1014 system enables inventory support for these new

Product impact	Feature	Description
		line cards. • NCS1K14-2.4T-A-K9 • NCS1K14-2.4TAL-K9
NCS 1010 and 1020 Datapath Configuration		
Software Reliability	ASE loading disable	ASE loading can be disabled at both the channel and module levels to improve troubleshooting capabilities. The "ASE Loading Disabled" alarm has been introduced for this feature. Commands modified: The keyword **ase-loading disable** has been added to these commands: • hw-module location location terminal-ampli • hw-module location location terminal-ampli grid-mode flex channel id<id>
Software Reliability	Enhanced Ethernet Statistics Support for GE interfaces	This feature provides a comprehensive support for the Ethernet Statistics on GE Interfaces through the Command Line Interface (CLI). It allows you to access real-timedata on various Ethernet statistics, providing network administrators with essential data for performance monitoring and troubleshooting. The CLI command introduced is: • show controllers gigabitEthernet R/S/I/P stats The CLI command output modified to include packet counters information is: show interfaces GigabitEthernet R/S/I/P
NCS 1010 and 1020 Optical Applications		
Software Reliability	OSC spanloss and signal spanloss support	The span loss application now separately reports C band and Optical Supervisory Channel (OSC) span loss values. Additionally, you can configure deviation thresholds for span loss monitoring. If the difference between **Rx OSC span loss** and **Rx signal span loss** exceeds the set minimum or maximum thresholds, the Signal OSC Span Loss Diff Out of Range alarm is raised. This feature supports threshold configuration for both Raman and non-Raman nodes. This enhancement enables individual span loss measurements for the C band and OSC, instead of a combined total span loss measurement. Span loss payload configuration is specific to each controller within the optical-line-control configuration. Commands added: • span-loss payload-osc-min-deviation • span-loss payload-osc-max-deviation
Ease of use	Span Loss Baseline Deviation Monitoring	You can now set minimum and maximum threshold values to monitor deviations between measured Rx signal span loss and the baselined value. If the deviation exceeds your configured range, the system raises a SPAN-LOSS-BASELINE-DEVIATION-OUT-OF-RANGE alarm.

Product impact	Feature	Description
		Use the new commands **max-baseline-deviation** and **min-baseline-deviation** to configure these thresholds.
Software Reliability	Bidirectional automatic OTDR scan	The OTDR autoscan is now conducted in both the Rx and Tx directions for all triggering events, ensuring no collision occurs during the bidirectional autoscan. This improvement allows autoscan operations to be executed in both directions, greatly enhancing fault detection and network diagnostics while preventing interference between scans.
Software Reliability	OTDR negotiation	The OTDR scan process now includes a negotiation step with a remote peer before starting the scan. This enhancement prevents simultaneous scans on the same fiber, avoiding measurement conflicts and ensuring accurate results. The force option allows a scan to start without negotiation, but it should be used cautiously to prevent simultaneous scans between the near-end and far-end nodes on the same fiber. Command modified: The keyword **force** has been added to the **otdr-start controller ots** *R/S/I/P direction* command.
NCS 1010 and 1020 Troubleshooting		
Upgrade	Automatic Laser Shutdown (ALS) improvements	Improvements to Automatic Laser Shutdown enhance fiber safety by detecting line status based on Ethernet LOS, Ethernet FEFI, and LOS conditions of C-band signals. During a fiber cut, the system shuts down Tx signals for safety, and the OSC signal is reinstated for device communication after 3 seconds. These alarms have been introduced as part of this feature: • EGRESS-AMPLI-LASER-OFF • INGRESS-AMPLI-LASER-OFF • FEFI
NCS 1010 and 1020 System Setup and Software Installation		
Software Reliability	Remote Console Connection	The Remote Console Connection enables you to connect to remote OLT and ILA nodes within the network using the OSC optical interface. This functionality allows you to access detailed information about the remote nodes through the near-end nodes by enabling the RCOM interface that is disabled by default. It provides essential access for gathering information and troubleshooting the remote nodes, even when intermediate nodes are in headless mode or lack a physical console connection. Establish connection to the remote nodes through their hostname or MAC address. The commands that enable remote connection are: • remote-connect hostname *<hostname>* • remote-connect mac *<mac-address>* • show remote-connect neighbours
Cisco Optical Site Manager		
Upgrade	Additional Card Mode for the QXP Card	The **Card Configuration Wizard** now lets you configure REGEN card mode for the NCS1K4-QXP-K9 card.

Product impact	Feature	Description
		You can explicitly set client-rate 100GE or 400GE with regen-slice, enabling ZR-based regeneration. Previously, regen-slice supported only trunk-rate without explicit client-rate settings.
Upgrade	Additional Client Rates for the NCSK14-2.4T-A-K9 Card	The **Card Configuration Wizard** now supports configuring these client data rates in the Muxponder slice card mode (MXP-SLICES-1K) for the NCSK14-2.4T-A-K9 card: • 100GE • 400GE
Ease of Use	Expert Mode Enhancements for Diagnostics	• **ShowTech Support** and **Fast Diagnostics** are now located in the new **Expert Mode** section, with **ShowTech Support** renamed to **Custom ShowTech.** • You can now increase the default log collection timeout using the **Watchdog Timeout** setting. This lets you extend the default 30-minute limit, ensuring log collection completes without premature termination and preventing incomplete diagnostic data.
Ease of Setup	Support for MPB Raman Pump Amplifiers	You can now add and manage Raman pump amplifiers from Cisco Optical Site Manager using the SNMP southbound interface. Supported models include: • MPB-2RU-MLD-1000-1426-1454-N2-C • MPB-2RU-MLDS-1000-1400-1410-N2-C • MPB-2RU-SRP-3000-1426-1454-N2-C.
Ease of Use	Download Device-Specific Configuration	The **COSM Setup** tab now includes a **Custom Download** button, enabling you to download configuration details for a specific device. This feature provides quick access to targeted configuration data, improving efficiency when retrieving device-specific information.
Ease of Use	Auto Refresh for Performance Monitoring Data	You can now enable the auto-refresh option in the **Performance** tab to automatically update performance monitoring data. After you manually retrieve PM data once, auto refresh ensures future updates reflect the latest current and historical information. You can set the auto-refresh interval to 15 seconds, 30 seconds, 1 minute, 3 minutes, or 5 minutes.
Ease of Use	Enhanced Alarm Notification Management	You can now manage alert notifications from the Alarms tab by adjusting alarm severity levels and suppressing alarms as needed. Changing alarm severity helps you prioritize critical alerts, while suppression prevents unnecessary or redundant notifications, resulting in a more efficient monitoring workflow.

New hardware features

This section provides a brief description of the new hardware features introduced in this release.

Table 2. New hardware for Cisco NCS 1000 Series

Hardware	Description
NCS1K14-2.4T-A-K9 NCS1K14-2.4T-AL-K9 Line Card	The **NCS1K14-2.4T-A-K9** and **NCS1K14-2.4TAL-K9** line cards are introduced as 2.4T DWDM coherent optics transponder and muxponder solutions for the NCS 1014 chassis. These line cards carry 100GE, 400GE and 800GE client traffic and enable networks to use C- and L-band frequencies for wider coverage.

Open issues

This table lists the open issues in this specific software release.

Note: This software release may contain open bugs first identified in other releases. To see additional information, click the bug ID to access the Cisco Bug Search Tool (BST).

NCS 1014

Table 3. Open issues for Cisco NCS 1014

Bug ID	Description
CSCwr78318	RF observed on split port after power cycle or data path creation (noted on 400G/800G client)
CSCwt30312	During SW upgrade sometimes LC is booting with Golden image

NCS 1010

Table 4. Open issues for Cisco NCS 1010

Bug ID	Description
CSCwt28756	L-Band APC required approximately 40 minutes to converge following an LC cold reload on OLT-L
CSCws31422	Channel status remains NXC even after cross-connect creation
CSCws52949	OTDR auto scan did not initiate after fiber restoration

NCS 1020

Table 5. Open issues for Cisco NCS 1020

Bug ID	Description
CSCws29319	OTDR scan status differs between baseline and current CLI; system not recovered after ALC re-trigger

Cisco Optical Site Manager

Table 6. Open issues for Cisco Optical Site Manager

Bug ID	Description
CSCwr75492	COSM 2511-NCS1010: Degree creation does not work after existing OLT card deletion, plug

Bug ID	Description
	out and new card inserted and discovered (same/different PID)
CSCwt26610	[1000-COSM]- Fiber-cut repair is not functioning or enabled on the ILA (Degree 2) setup
CSCws76951	SSH Connectivity Issue Due to Incorrect SSH Port Configuration - Diagnostics, Backup, and Software Download Impacted
CSCwt23484	Setting out-octets/in-good/out-good TCAs from XR causes COSM device to go out of sync
CSCwt29892	[COSM-WEBUI] Hardening: IPCs getting overlapped in IPC creation window when multiple IPCs are added at same time

Supported software packages

This section provides information about the release packages associated with NCS 1000 series.

Table 7. Software packages for NCS 1000 Series

NCS 1010

Package	Filename	Description
Composite package		
Cisco IOS XR Core Bundle + Manageability Package	ncs1010-x64-26.1.1.iso	IOS Contains required core packages, including operating system, Admin, Base, Forwarding, SNMP Agent, FPD, and Alarm Correlation and Netconf-yang, Telemetry, Extensible Markup Language (XML) Parser, HTTP server packages. IOS XR Base Image

NCS 1014

Package	Filename	Description
Individually installable packages		
Cisco IOS XR Telnet Packages	xr-telnet-26.1.1v1.0.0-1.x86_64.rpm xr-telnet-ncs1014-26.1.1.v1.0.0-1.x86_64.rpm	Install these packages to support Telnet.

Package	Filename	Description
Cisco IOS XR Security Package	xr-k9sec-pid-eb216ea0977bb9c7-26.1.1.v1.0.0-1.x86_64.rpm xr-k9sec-26.1.1.v1.0.0-1.x86_64.rpm xr-k9sec-pid-ncs1014-26.1.1.v1.0.0-1.x86_64.rpm xr-k9sec-f544c7c7d37890ec-26.1.1.v1.0.0-1.x86_64.rpm	Support for Encryption, Decryption, IP Security (IPsec), Secure Socket Layer (SSL), and Public-key infrastructure (PKI).
Cisco IOS XR Cisco Discovery Protocol (CDP) Packages	xr-cdp-26.1.1v1.0.0-1.x86_64.rpm xr-cdp-ncs1014-26.1.1v1.0.0-1.x86_64.rpm xr-cdp-f544c7c7d37890ec-26.1.1v1.0.0-1.x86_64.rpm xr-telnet-f544c7c7d37890ec-26.1.1v1.0.0-1.x86_64.rpm	Install these packages to support CDP.

NCS 1004

Package	Filename	Description
Composite package		
Cisco IOS XR Core Bundle + Manageability Package	NCS1004-iosxr-px-k9-26.1.1.tar	Contains required core packages, including operating system, Admin, Base, Forwarding, SNMP Agent, FPD, and Alarm Correlation and Netconf-yang, Telemetry, Extensible Markup Language (XML) Parser, HTTP server packages
Individually installable packages		
Cisco IOS XR Security Package	ncs1004-k9sec-1.0.0.0-r2611.x86_64.rpm	Support for Encryption, Decryption, IP Security (IPsec), Secure Socket Layer (SSL), and Public-key infrastructure (PKI).
Cisco IOS XR OTN-XP DP Package	ncs1004-sysadmin-otn-xp-dp -26.1.1-r2611.x86_64.rpm (part of ncs1004-iosxr-px-k9-26.1.1.tar)	Install this data path FPD packages on the OTN-XP card. This package is mandatory for datapath bring up.

Cisco Optical Site Manager

Package	Filename
Composite package	
Cisco IOS XR COSM Package	-r-xr-xr-x 1 swtools xrops 6049 Feb 26 10:54 xr-cosm-26.1.1v1.0.0-1.x86_64.rpm -r-xr-xr-x 1 swtools xrops 769815205 Feb 26 11:04 xr-cosm-pid-a6d720622d7e61b9-26.1.1v1.0.0-1.x86_64.rpm

Determine software version

NCS 1004

Log into the node and enter the **show version** command.

```
RP/0/RP0/CPU0:ios#show version
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 21:33:30 PST 2026
 Built Host   : iox-lnx-107
 Workspace    : /auto/srcarchive12/prod/26.1.1/ncs1004/ws
 Version      : 26.1.1
 Location     : /opt/cisco/XR/packages/
 Label        : 26.1.1

cisco NCS-1004 () processor
System uptime is 7 minutes
```

NCS 1010

```
RP/0/RP0/CPU0:ios#show version
Thu Feb 26 21:54:59.977 IST
Cisco IOS XR Software, Version 26.1.1 LNT
Copyright (c) 2013-2026 by Cisco Systems, Inc.

Build Information:
 Built By     : cisco
 Built On     : Thu Feb 26 03:41:18 UTC 2026
 Build Host   : iox-lnx-108
 Workspace    : /auto/srcarchive12/prod/26.1.1/ncs1010/ws/
 Version      : 26.1.1
 Label        : 26.1.1

cisco NCS1010 (C3758 @ 2.20GHz)
```

```
cisco NCS1010-SA (C3758 @ 2.20GHz) processor with 32GB of memory
CVT-ILA-1 uptime is 7 minutes
NCS 1010 - Chassis
```

NCS 1020

```
RP/0/RP0/CPU0:ios#show version
Thu Feb 26 21:53:50.932 IST
Cisco IOS XR Software, Version 26.1.1 LNT
Copyright (c) 2013-2026 by Cisco Systems, Inc.

Build Information:
 Built By     : cisco
 Built On     : Thu Feb 26 03:41:18 UTC 2026
 Build Host   : iox-lnx-108
 Workspace    : /auto/srcarchive12/prod/26.1.1/ncs1010/ws/
 Version      : 26.1.1
 Label        : 26.1.1

cisco NCS1010 (C3758R @ 2.40GHz)
cisco NCS1020-SA (C3758R @ 2.40GHz) processor with 32GB of memory
CVT-OLT-1 uptime is 6 minutes
NCS 1020 Chassis
```

NCS 1014

```
RP/0/RP0/CPU0:ios#show version
Fri Feb 27 14:13:51.176 IST
Cisco IOS XR Software, Version 26.1.1 LNT
Copyright (c) 2013-2026 by Cisco Systems, Inc.

Build Information:
 Built By     : cisco
 Built On     : Thu Feb 26 03:41:18 UTC 2026
 Build Host   : iox-lnx-108
 Workspace    : /auto/srcarchive12/prod/26.1.1/ncs1010/ws/
 Version      : 26.1.1
 Label        : 26.1.1

cisco NCS1010 (C3758R @ 2.40GHz)
cisco NCS1014 (C3758R @ 2.40GHz) processor with 32GB of memory
sit_kep1 uptime is 48 minutes
NCS 1014 - Chassis
```

Determine firmware version

Use the **show hw-module fpd** command in EXEC mode to view the hardware components with their current FPD version and status. The status of the hardware must be CURRENT; The Running and Programmed version must be the same.

Log into the node and enter the **show hw-module fpd** command.

NCS 1004

```
RP/0/RP0/CPU0:ios#show hw-module fpd
Fri Feb 27 15:44:37.873 IST


Auto-upgrade:Enabled
                                                                                FPD Versions
                                                                               ==============
Location   Card type             HWver FPD device       ATR Status    Running   Programd
-------------------------------------------------------------------------------------------
0/0        NCS1K4-1.2T-K9        3.0   LC_CPU_MOD_FW         CURRENT   261.100   261.100
0/0        NCS1K4-1.2T-K9        3.0   LC_OPT_MOD_FW         CURRENT     1.38      1.38
0/1        NCS1K4-1.2T-K9        2.0   LC_CPU_MOD_FW         CURRENT   261.100   261.100
0/1        NCS1K4-1.2T-K9        1.0   LC_OPT_MOD_FW         CURRENT     1.38      1.38
0/2        NCS1K4-1.2T-K9        2.0   LC_CPU_MOD_FW         CURRENT   261.100   261.100
0/2        NCS1K4-1.2T-K9        1.0   LC_OPT_MOD_FW         CURRENT     1.38      1.38
0/3        NCS1K4-1.2T-K9        3.0   LC_CPU_MOD_FW         CURRENT   261.100   261.100
0/3        NCS1K4-1.2T-K9        21.0  LC_OPT_MOD_FW         CURRENT     1.38      1.38
0/RP0      NCS1K4-CNTLR-K9       8.0   CSB_IMG             S CURRENT     0.200     0.200
0/RP0      NCS1K4-CNTLR-K9       8.0   TAM_FW                CURRENT    36.08     36.08
0/RP0      NCS1K4-CNTLR-K9       1.14  BIOS                S CURRENT     7.30      7.30
0/RP0      NCS1K4-CNTLR-K9       5.4   BP_SSD                CURRENT    75.00     75.00
0/RP0      NCS1K4-CNTLR-K9       8.0   CPU_FPGA              CURRENT     1.14      1.14
0/RP0      NCS1K4-CNTLR-K9       5.5   CPU_SSD               CURRENT     1.00      1.00
0/RP0      NCS1K4-CNTLR-K9       3.18  POWMAN_CFG            CURRENT     3.40      3.40
0/PM0      NCS1K4-AC-PSU         0.1   PO-PriMCU             NEED UPGD   2.68      2.68
0/SC0      NCS1004               2.0   BP_FPGA               CURRENT     1.25      1.25
0/SC0      NCS1004               2.0   XGE_FLASH             CURRENT    18.04     18.04
```

NCS 1010

```
RP/0/RP0/CPU0:ios#show hw-module fpd
RP/0/RP0/CPU0:CVT-ILA-1#sh hw-module fpd
Thu Feb 26 21:55:07.305 IST


Auto-upgrade:Enabled,PM excluded
Attribute codes: B golden, P protect, S secure, A Anti Theft aware
                                                                                FPD Versions
                                                                               ==============
```

```
Location   Card type             HWver FPD device       ATR Status    Running  Programd
Reload Loc
-------------------------------------------------------------------------------------
-----
0/RP0/CPU0 NCS1010-CNTLR-K9      1.11  ADMConfig            CURRENT      3.40     3.40
NOT REQ
0/RP0/CPU0 NCS1010-CNTLR-K9      1.11  BIOS             S   CURRENT      6.10     6.10
0/RP0
0/RP0/CPU0 NCS1010-CNTLR-K9      1.11  BIOS-Golden      BS  CURRENT               4.10
0/RP0
0/RP0/CPU0 NCS1010-CNTLR-K9      1.11  CpuFpga          S   CURRENT      1.13     1.13
0/RP0
0/RP0/CPU0 NCS1010-CNTLR-K9      1.11  CpuFpgaGolden    BS  CURRENT               1.01
0/RP0
0/RP0/CPU0 NCS1010-CNTLR-K9      1.11  SsdMicron5300    S   CURRENT      0.01     0.01
0/RP0
0/RP0/CPU0 NCS1010-CNTLR-K9      1.11  TamFw            S   CURRENT      6.13     6.13
0/RP0
0/RP0/CPU0 NCS1010-CNTLR-K9      1.11  TamFwGolden      BS  CURRENT               6.11
0/RP0
0/PM0      NCS1010-AC-PSU        1.0   AP-PriMCU            CURRENT      1.03     1.03
NOT REQ
0/PM0      NCS1010-AC-PSU        1.0   AP-SecMCU            CURRENT      2.01     2.01
NOT REQ
0/PM1      NCS1010-AC-PSU        1.0   AP-PriMCU            CURRENT      1.03     1.03
NOT REQ
0/PM1      NCS1010-AC-PSU        1.0   AP-SecMCU            CURRENT      2.01     2.01
NOT REQ
0/0/NXR0   NCS1K-ILA-C           1.0   ILA              S   CURRENT      3.44     3.44
NOT REQ
0/Rack     NCS1010-SA            2.1   EITU-ADMConfig       CURRENT      2.10     2.10
NOT REQ
0/Rack     NCS1010-SA            2.1   IoFpga           S   CURRENT      1.27     1.27
NOT REQ
0/Rack     NCS1010-SA            2.1   IoFpgaGolden     BS  CURRENT               1.01
NOT REQ
0/Rack     NCS1010-SA            2.1   SsdMicron5300    S   CURRENT      0.01     0.01
0/Rack
```

NCS 1020

```
RP/0/RP0/CPU0:ios#show hw-module fpd

Thu Feb 26 21:53:56.528 IST


Auto-upgrade:Enabled,PM excluded

Attribute codes: B golden, P protect, S secure, A Anti Theft aware

                                                                      FPD Versions
                                                                     ==============
```

```
Location   Card type             HWver FPD device       ATR Status    Running  Programd
Reload Loc
-------------------------------------------------------------------------------------
-----
0/RP0/CPU0 NCS1010-CTR2-B-K9     1.0   ADMCONFIG            CURRENT      1.00     1.00
NOT REQ
0/RP0/CPU0 NCS1010-CTR2-B-K9     1.0   BIOS             S   CURRENT      6.10     6.10
0/RP0
0/RP0/CPU0 NCS1010-CTR2-B-K9     1.0   BIOS-Golden      BS  CURRENT              5.20
0/RP0
0/RP0/CPU0 NCS1010-CTR2-B-K9     1.0   CpuFpga          S   CURRENT      1.12     1.12
0/RP0
0/RP0/CPU0 NCS1010-CTR2-B-K9     1.0   CpuFpgaGolden    BS  CURRENT              1.06
0/RP0
0/RP0/CPU0 NCS1010-CTR2-B-K9     1.0   SsdMicron5300    S   CURRENT      0.01     0.01
0/RP0
0/RP0/CPU0 NCS1010-CTR2-B-K9     1.0   TamFw            S   CURRENT      9.07     9.07
0/RP0
0/RP0/CPU0 NCS1010-CTR2-B-K9     1.0   TamFwGolden      BS  CURRENT              9.07
0/RP0
0/PM0      NCS1K4-AC-PSU-2       1.0   PO-PriMCU            CURRENT      1.03     1.03
NOT REQ
0/PM0      NCS1K4-AC-PSU-2       1.0   PO-SecMCU            CURRENT      1.05     1.05
NOT REQ
0/PM1      NCS1K4-AC-PSU-2       1.0   PO-PriMCU            CURRENT      1.03     1.03
NOT REQ
0/PM1      NCS1K4-AC-PSU-2       1.0   PO-SecMCU            CURRENT      1.05     1.05
NOT REQ
0/0/NXR0   NCS1K-E-OLT-C         1.0   OLT              S   CURRENT      3.44     3.44
NOT REQ
0/2/NXR0   NCS1K14-CCMD-16-C     1.0   CpuModFw         S   CURRENT    261.100  261.100
NOT REQ
0/2/NXR0   NCS1K14-CCMD-16-C     1.0   OptModFw         S   CURRENT     20.04    20.04
NOT REQ
0/3/NXR0   NCS1K14-CCMD-16-C     1.0   CpuModFw         S   CURRENT    261.100  261.100
NOT REQ
0/3/NXR0   NCS1K14-CCMD-16-C     1.0   OptModFw         S   CURRENT     20.04    20.04
NOT REQ
0/4/NXR0   NCS1K14-CCMD-16-C     1.0   CpuModFw         S   CURRENT    261.100  261.100
NOT REQ
0/4/NXR0   NCS1K14-CCMD-16-C     1.0   OptModFw         S   CURRENT     20.04    20.04
NOT REQ
0/Rack     NCS1020-SA            1.0   ADMCONFIG            CURRENT      1.00     1.00
NOT REQ
0/Rack     NCS1020-SA            1.0   IoFpgaLow        S   CURRENT      1.12     1.12
NOT REQ
0/Rack     NCS1020-SA            1.0   IoFpgaLowGolden  BS  CURRENT              1.08
NOT REQ
```

```
0/Rack     NCS1020-SA            1.0   IoFpgaUp         S   CURRENT      1.10     1.10
NOT REQ
0/Rack     NCS1020-SA            1.0   IoFpgaUpGolden   BS  CURRENT              1.08
NOT REQ
0/Rack     NCS1020-SA            1.0   SsdIntelSC2KB    S   CURRENT      1.30     1.30
0/Rack
```

NCS 1014

```
RP/0/RP0/CPU0:ios#show hw-module fpd
Fri Feb 27 14:13:56.703 IST

Auto-upgrade:Enabled,PM excluded
Attribute codes: B golden, P protect, S secure, A Anti Theft aware
                                                                          FPD Versions
                                                                         ==============
Location   Card type             HWver FPD device       ATR Status    Running  Programd
Reload Loc
-------------------------------------------------------------------------------------------
-----
0/RP0/CPU0 NCS1K14-CTLR-B-K9     0.2   ADM-DB               CURRENT      2.10     2.10
NOT REQ
0/RP0/CPU0 NCS1K14-CTLR-B-K9     0.2   ADM-MB               CURRENT      2.30     2.30
NOT REQ
0/RP0/CPU0 NCS1K14-CTLR-B-K9     0.2   BIOS             S   CURRENT      6.10     6.10
0/RP0
0/RP0/CPU0 NCS1K14-CTLR-B-K9     0.2   BIOS-Golden      BS  CURRENT              1.72
0/RP0
0/RP0/CPU0 NCS1K14-CTLR-B-K9     0.2   CpuFpga          S   CURRENT      1.17     1.17
0/RP0
0/RP0/CPU0 NCS1K14-CTLR-B-K9     0.2   CpuFpgaGolden    BS  CURRENT              0.27
0/RP0
0/RP0/CPU0 NCS1K14-CTLR-B-K9     0.2   SsdMicron5300    S   CURRENT      0.01     0.01
0/RP0
0/RP0/CPU0 NCS1K14-CTLR-B-K9     0.2   TamFw            S   CURRENT      9.04     9.04
0/RP0
0/RP0/CPU0 NCS1K14-CTLR-B-K9     0.2   TamFwGolden      BS  CURRENT              9.04
0/RP0
0/PM0      NCS1K4-AC-PSU-2       1.1   PO-PriMCU            CURRENT      1.03     1.03
NOT REQ
0/PM0      NCS1K4-AC-PSU-2       1.1   PO-SecMCU            CURRENT      1.05     1.05
NOT REQ
0/PM1      NCS1K4-AC-PSU-2       0.1   PO-PriMCU            CURRENT      1.03     1.03
NOT REQ
0/PM1      NCS1K4-AC-PSU-2       0.1   PO-SecMCU            CURRENT      1.05     1.05
NOT REQ
0/0/NXR0   NCS1K14-2.4T-K9       0.1   CpuModFw         S   CURRENT    261.100  261.100
NOT REQ
```

```
0/0/NXR0    NCS1K14-2.4T-K9       0.0    OpticsFw_Port_0  S    CURRENT     80.14014 80.14014
NOT REQ
0/0/NXR0    NCS1K14-2.4T-K9       0.0    OpticsFw_Port_7  S    CURRENT     80.14014 80.14014
NOT REQ
0/1/NXR0    NCS1K14-2.4T-X-K9     1.0    CpuModFw         S    CURRENT    261.100  261.100
NOT REQ
0/1/NXR0    NCS1K14-2.4T-X-K9     0.0    OpticsFw_Port_0  S    CURRENT     80.14014 80.14014
NOT REQ
0/2/NXR0    NCS1K14-2.4T-K9       0.1    CpuModFw         S    CURRENT    261.100  261.100
NOT REQ
0/2/NXR0    NCS1K14-2.4T-K9       0.0    OpticsFw_Port_0  S    CURRENT     80.14014 80.14014
NOT REQ
0/3/NXR0    NCS1K14-2.4T-X-K9     1.0    CpuModFw         S    CURRENT    261.100  261.100
NOT REQ
0/3/NXR0    NCS1K14-2.4T-X-K9     0.0    OpticsFw_Port_0  S    CURRENT     80.14014 80.14014
NOT REQ
0/3/NXR0    NCS1K14-2.4T-X-K9     0.0    OpticsFw_Port_7  S    CURRENT     80.14014 80.14014
NOT REQ
0/0/NXR0    NCS1K14-EDFA2         0.1    CpuModFw         S    CURRENT     261.100   261.100
NOT REQ
0/0/NXR0    NCS1K14-EDFA2         0.0    OpticsFw_Port_6  S    CURRENT      1.02     1.02
NOT REQ
0/Rack      NCS1014               0.1    ADM-CHASSIS           CURRENT      0.21     0.21
NOT REQ
0/Rack      NCS1014               0.1    IoFpga           S    CURRENT      2.26     2.26
NOT REQ
0/Rack      NCS1014               0.1    IoFpgaGolden     BS   CURRENT               1.05
NOT REQ
0/Rack      NCS1014               0.1    SsdIntelSC2KB    S    CURRENT      1.30     1.30
0/Rack
RP/0/RP0/CPU0:ios#
```

Related resources

These links provide access to related documents and resources associated with this release:

- For the supported upgrade and downgrade paths:
  - NCS 1004 - Software Upgrade and Downgrade Matrix
  - NCS 1010 - Software Upgrade and Downgrade Matrix
  - NCS 1014 - Software Upgrade and Downgrade Matrix
- For the complete list of documentation for the release, see Cisco Network Convergence System 1000 Series.

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