Release Notes for Cisco NCS 1000 Series, IOS XR Release 24.2.11

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What's New in Cisco NCS 1000, IOS XR Release 24.2.11

Cisco is continuously enhancing the product with every release and this section covers a brief description of key features and enhancements. You can also access the links to the detailed documented features.

Cisco NCS 1014

The following table lists the features added in the NCS 1014 guides:

Feature	Description
Hardware Installation	
Pluggables Support	The following pluggables are supported on the NCS1K14-2.4-T-X-K9 card: • QDD-400G-LR4-S • QDD-4X100G-FR-S
Configuration	
Additional Trunk Rate Support on NCS1K14-2.4T-X-K9 Card	Now the NCS1K14-2.4T-X-K9 line card supports additional trunk rates of 700G, 900G, and 1100G. This feature adds more flexibility in handling combinations of 100GE and 400GE client traffic over these additional trunk rates on each slice.

Cisco Optical Site Manager

The following table lists the features added in the Cisco Optical Site Manager guide:

Feature	Description
Configuration	
Detailed View in NFV for Transponder and Muxponder Cards on Third-party OLS Networks	The Node Functional View (NFV) has been enhanced to provide a detailed view of transponder and muxponder cards on NCS1014 deployed within networks utilizing third-party Optical Line Systems (OLS). This detailed view provides a graphical representation of the connections between the trunk and client ports on the transponder and muxponder cards, thereby simplifying the visualization of the network's connection layout.

Cisco NCS 1010

There are no new software or hardware features introduced in this release.

Release Packages

Packages for CISCO NCS 1014 and 1010

Note The NCS 1014 packages include Cisco Optical Site Manager Software.

Table 1: Packages for Cisco NCS 1014 and 1010

Feature Set	Filename	Description
Composite Package		
Cisco IOS XR Core Bundle + Manageability Packages	ncs1010-x64-24.2.11.iso	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 Telnet Packages	xr-telnet-24.2.11.x86_64.rpm xr-telnet-ncs1010-24.2.11.x86_64.rpm	Install the xr-telnet-24.2.11.x86_64.rpm and xr-telnet-ncs1010-24.2.11.x86_64.rpm packages to support Telnet.
Cisco IOS XR Cisco Discovery Protocol (CDP) Packages	xr-cdp-24.2.11.x86_64.rpm xr-cdp-ncs1010-24.2.11.x86_64.rpm	Install the xr-cdp-24.2.11.x86_64.rpm and xr-cdp-ncs1010-24.2.11.x86_64.rpm to support CDP.
COSM Packages		
Cisco Optical Site Manager Packages	xr-cosm-ncs1010-24.2.11v1.0.0-1.x86_64.rpm xr-cosm-ncs1014-24.2.11v1.0.0-1.x86_64.rpm xr-cosm-82eb6a4d2fa15d0e-24.2.11v1.0.0-1.x86_64.rpm xr-cosm-24.2.11v1.0.0-1.x86_64.rpm	Install the xr-cosm-ncs1010-24.2.11v1.0.0-1.x86_64.rpm, xr-cosm-ncs1014-24.2.11v1.0.0-1.x86_64.rpm, xr-cosm-82eb6a4d2fa15d0e-24.2.11v1.0.0-1.x86_64.rpm, and xr-cosm-24.2.11v1.0.0-1.x86_64.rpm packages to enable Cisco Optical Site Manager.

Caveats

Open Caveats

NCS 1014

The following table lists the open caveats for NCS 1014:

Identifier	Headline
CSCwk14996	Commit-replace failed with Non-supported trunk rate.
CSCwj56155	Difference in OSRI command between OTS and OMS controllers
CSCwj44503	NCS1014- showtech taking more then 15min in scaled setup with telemetry running.

NCS 1010

The following table lists the open caveats for NCS 1010:

Identifier	Headline
CSCwj83812	Power Module LED status is OFF after removal of power feed
CSCwj92793	'RP_TEMP_PCB: temperature alarm' declared and cleared
CSCwj99629	MSFT Soln: Entry is not present in history alarms for 'IDPROM read or CRC check failure' log
CSCwj56155	Difference in OSRI command between OTS and OMS controllers

Cisco Optical Site Manager

The following table lists the open caveats for Cisco Optical Site Manager.

Identifier	Headline
CSCwj07777	In 1004 chassis, Unable to get env-mon values for module
CSCwk03741	[cosm] FEC alerts are not raising for Trunk and Client TCA except UNC-WORDS
CSCwk31858	[COSM]:Transceiver temperature wrongly reported in COSM
CSCwk40499	[COSM]:1010 device is not getting sync when card-type "Unknown" is present
CSCwk35444	[COSM] After card/pluggable plugout in 1004 device, PPMs manufacturing data is still present in COSM

Bug Search Tool

Cisco Bug Search Tool (BST) is a web-based tool that acts as a gateway to the Cisco bug tracking system that maintains a comprehensive list of defects and vulnerabilities in Cisco products and software. BST provides you with detailed defect information about your products and software.

Using Bug Search Tool

You can use the Cisco Bug Search Tool to search for a specific bug or to search for all bugs in a release.

Procedure

Step 1 Go to the https://bst.cloudapps.cisco.com/bugsearch.

Step 2 Log in using your registered Cisco.com username and password.

The Bug Search page opens.

Step 3 Use any of these options to search for bugs, and then press Enter (Return) to initiate the search:

- To search for a specific bug, enter the bug ID in the Search For field.
- To search for bugs based on specific criteria, enter search criteria, such as a problem description, a feature, or a product name, in the Search For field.
- To search for bugs based on products, enter or select a product from the Product list. For example, if you enter “WAE,” you get several options from which to choose.
- To search for bugs based on releases, in the Releases list select whether to search for bugs affecting a specific release, bugs that were fixed in a specific release, or both. Then enter one or more release numbers in the Releases field.

Step 4 When the search results are displayed, use the filter tools to narrow the results. You can filter the bugs by status, severity, and so on.

To export the results to a spreadsheet, click **Export Results to Excel**.

Determine Software Version

NCS1014

Log into NCS 1014 and enter the **show version** command.

```
RP/0/RP0/CPU0:ios#show version
Fri Jul  5 08:44:13.681 IST
Cisco IOS XR Software, Version 24.2.11 LNT
Copyright (c) 2013-2024 by Cisco Systems, Inc.

Build Information:
 Built By     : cisco
 Built On     : Tue Jul 02 14:32:37 UTC 2024
 Build Host   : iox-ucs-033
```

```
 Workspace    : /auto/srcarchive11/prod/24.2.11/ncs1010/ws/
 Version      : 24.2.11
 Label        : 24.2.11

cisco NCS1010 (C3758R @ 2.40GHz)
cisco NCS1014 (C3758R @ 2.40GHz) processor with 32GB of memory
kepler_2 uptime is 12 hours, 47 minutes
NCS 1014 - Chassis
```

NCS 1010

Log into NCS 1010 and enter the **show version** command.

```
RP/0/RP0/CPU0:ios#show version
Fri Jul  5 17:17:41.965 IST
Cisco IOS XR Software, Version 24.2.11 LNT
Copyright (c) 2013-2024 by Cisco Systems, Inc.

Build Information:
 Built By     : cisco
 Built On     : Tue Jul 02 14:32:37 UTC 2024
 Build Host   : iox-ucs-033
 Workspace    : /auto/srcarchive11/prod/24.2.11/ncs1010/ws/
 Version      : 24.2.11
 Label        : 24.2.11

cisco NCS1010 (C3758 @ 2.20GHz)
cisco NCS1010-SA (C3758 @ 2.20GHz) processor with 32GB of memory
R1 uptime is 23 hours, 29 minutes
NCS 1010 - Chassis

RP/0/RP0/CPU0:R1#
```

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 Programed version must be the same.

NCS 1014

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

```
RP/0/RP0/CPU0:ios#show hw-module fpd
Thu Jun 13 20:20:48.220 IST

Auto-upgrade:Enabled
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    4.80    4.80
  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    1.09    1.09
  0/RP0
0/RP0/CPU0 NCS1K14-CTLR-B-K9     0.2   CpuFpgaGolden    BS  NEED UPGD          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       0.1   PO-PriMCU            CURRENT    1.03    1.03
NOT REQ
0/PM0      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  242.10  242.10
NOT REQ
0/1/NXR0   NCS1K14-2.4T-X-K9     0.1   CpuModFw         S   CURRENT  242.10  242.10
NOT REQ
0/2/NXR0   NCS1K14-2.4T-K9       0.1   CpuModFw         S   CURRENT  242.10  242.10
NOT REQ
0/Rack     NCS1014               0.1   ADM-CHASSIS          CURRENT    0.21    0.21
NOT REQ
0/Rack     NCS1014               0.1   IoFpga           S   CURRENT    1.10    1.10
NOT REQ
0/Rack     NCS1014               0.1   IoFpgaGolden     BS  CURRENT            1.05
NOT REQ
0/Rack     NCS1014               0.1   SsdIntelSC2KB    S   CURRENT    1.20    1.20
 0/Rack
```

NCS 1010

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

```
RP/0/RP0/CPU0:ios#show hw-module fpd
Wed Jun 12 14:42:45.428 IST

Auto-upgrade:Enabled
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    4.80    4.80
  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    1.11    1.11
  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    3.14    3.14
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    1.18    1.18
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
```

Supported MIBs

The MIB Locator tool on Cisco Feature Navigator (CFN) provides access to NCS 1014 MIBs.

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