

# Release Notes for Cisco NCS 4000 Series, Cisco IOS XR Release 6.1.1.2

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The release notes contain information about the new features introduced in the Cisco NCS 4000 Series. For detailed information regarding features, capabilities, hardware, and software introduced with this release, see the guides listed in the *Additional References* section.

### Revision History

Date	Notes
Oct 2016	This is the first release of this publication.
Nov 2016	Added a section on supported FPD versions.

### Software and Hardware Requirements

Before you begin to install the software, you must check whether your system meets the minimum software and hardware requirements.

- Hardware— Intel Core i5, i7, or faster processor. A minimum of 4 GB RAM, 100 GB hard disk with 250 MB of available hard drive space.
- One of these operating System:
  - Windows 7, Windows Server 2008, or later.
  - Apple Mac OS X
  - UNIX workstation with Solaris Version 9 or 10 on an UltraSPARC-III or faster processor, with a minimum of 1 GB RAM and a minimum of 250 MB of available hard drive space.
  - Ubuntu 12.10
- Java Runtime Environment—Java Runtime Environment Version 1.8.
- Browser:
  - Internet Explorer
  - Mozilla

- Safari
- Google Chrome

## External Caveats

### External Bugs in Release 6.1.1.2

Release 6.1.1.2 addresses the following external caveats:

- **CSCva93006**: GMPLS Tunnel down after SU from 602 to 6112 14C.
- **CSCvb03651**: ISSU downgrade button is not enabled after activation of standby RP, so activation of Active RP wasn't possible from CTC
- **CSCvb14468**: TCM TIM stuck on NNI controller at tail after applying SNC-S profile.
- **CSCvb28819**: CTC getting hang for 10-15 min after LCVMSO/RPVMSO.
- **CSCuz56046**: Circuit diversity dropdown does not list all the tunnels after the hot Swap of NCS4K-2H10T-OP-KS card.
- **CSCva93152**: NCS4016-FC2-M CCC-FPGA downgrade from 612\_7C to 602\_19C failed.
- **CSCvb20447**: Incomplete circuit map in Edit Circuit tab after the OIR or shut down of the route processor card.
- **CSCvb20474**: BO Lane Wise raised TCA do no show Lane number for very first Lane.
- **CSCvb24367**: Pluggables are not updated after the line card recovery by reloading after OIR of the fan tray.
- **CSCvb28786**: Protect path is not shown in Edit circuit detailed map for BO circuit.
- **CSCvb29090**: Controller is not created at OTU level. Delete or create after loop back configuration.
- **CSCvb32597**: Delay in response for Checkbox of inactive packages on System pane.
- **CSCvb59248**: 0/FT0 was removed and reinstalled and the "FPD-NEED-UPGRADE" alarm was raised.

## Supported FPD Versions

The following table lists the FPD versions supported in Release 6.1.1.2.

Card Type	FPD Description	Req. Reload	S/W Version	Min. Req. S/W Version	Min. Req. Board Version
NCS4009-FC-S	CCC-FPGA(A)	No	1.05	1.05	0.1
	CCC-Power-On(A)	No	1.03	1.03	0.1
	PLX-8608(A)	Yes	0.03	0.03	0.1
	SB Certificates(A)	No	1.00	1.00	0.0

NCS4009-FC2-S	CCC-FPGA(A)	No	1.11	1.11	0.1
	CCC-Power-On(A)	No	1.01	1.01	0.1
	PLX-8608(A)	Yes	0.03	0.03	0.1
	SB Certificates(A)	No	1.00	1.00	0.0
NCS4016-FC-M	CCC-FPGA(A)	No	4.40	4.40	0.1
	CCC-Power-On(A)	No	1.12	1.12	0.1
	PLX-8649(A)	Yes	0.08	0.08	0.1
	SB Certificates(A)	No	1.00	1.00	0.0
NCS4016-FC-S	CCC-FPGA(A)	Yes	0.05	0.01	0.1
	CCC-Power-On(A)	Yes	1.12	1.08	0.1
	PLX-8649(A)	Yes	0.08	0.08	0.1
	SB Certificates(A)	No	1.00	1.00	0.0
	CCC-FPGA(A)	No	5.07	5.07	0.1
	CCC-Power-On(A)	No	1.01	1.01	0.1
	PLX-8649(A)	Yes	0.08	0.08	0.1
	SB Certificates(A)	No	1.00	1.00	0.0
NCS4009-FC2-M	CCC-FPGA(A)	No	1.16	1.16	0.1
	CCC-Power-On(A)	No	1.01	1.01	0.1
	PLX-8649(A)	Yes	0.11	0.11	0.1
	SB Certificates(A)	No	1.00	1.00	0.0
NCS4K-2OT-O-S	Backup-ZYNQ	Yes	1.68	1.00	0.1
	CCC-FPGA(A)	No	3.27	3.27	0.1
	CCC-Power-On(A)	No	1.17	1.17	0.1
	DIGI1	No	2.03	2.03	0.1
	DIGI2	No	2.03	2.03	0.1
	Ethernet Switch(A)	Yes	1.40	1.40	0.1
	GENNUM	No	3.01	3.01	0.1
	PLX-8618(A)	Yes	0.09	0.09	0.1
	Primary-ZYNQ	No	1.68	1.68	0.1
	SB Certificates(A)	No	1.00	1.00	0.0

NCS4K-2OT-OP-S	CCC-FPGA(A)	No	1.10	1.10	0.1
	CCC-Power-On(A)	No	1.06	1.06	0.1
	Ethernet Switch(A)	Yes	1.02	1.02	0.1
	PLX-8632(A)	Yes	1.00	1.00	0.1
	SB Certificates(A)	No	1.00	1.00	0.0
NCS4K-2OT-OP-S	DIGI1	No	2.03	2.03	0.1
	DIGI2	No	2.03	2.03	0.1
	Primary-ZYNQ	No	1.01	1.01	0.1
NCS4K-24LR-O-S	Backup-ZYNQ	Yes	4.15	0.01	0.1
	CCC-FPGA(A)	No	4.39	4.39	0.1
	CCC-Power-On(A)	No	1.17	1.17	0.1
	Ethernet Switch(A)	Yes	1.37	1.37	0.1
	PLX-8618(A)	Yes	0.10	0.10	0.1
	Primary-ZYNQ	No	4.17	4.17	0.0
	SB Certificates(A)	No	1.00	1.00	0.0
NCS4K-2H-O-K	Backup-ZYNQ	Yes	1.55	0.01	0.1
	CCC-FPGA(A)	No	3.38	3.38	0.1
	CCC-Power-On(A)	No	1.17	1.17	0.1
	DIGI1	No	2.03	2.03	0.1
	DIGI2	No	2.03	2.03	0.1
	Ethernet Switch(A)	Yes	1.40	1.40	0.1
	GENNUM	No	3.01	3.01	0.1
	LEPTON	No	4.02	4.02	0.1
	PLX-8618(A)	Yes	0.10	0.10	0.1
	Primary-ZYNQ	No	1.56	1.56	0.1
	SB Certificates(A)	No	1.00	1.00	0.0

NCS4K-2H-W	Backup-ZYNQ	No	1.53	1.00	0.1
	CCC-FPGA(A)	No	4.30	4.30	0.1
	CCC-Power-On(A)	No	1.16	1.16	0.1
	EAGLE-0-FPD	No	5.05	5.05	0.1
	EAGLE-1-FPD	No	5.05	5.05	0.1
	Ethernet Switch(A)	Yes	1.35	1.35	0.1
	GN2411-FPD-1	Yes	3.05	3.05	0.1
	GN2411-FPD-2	Yes	3.05	3.05	0.1
	GN2411-FPD-3	Yes	3.05	3.05	0.1
	GN2411-FPD-4	Yes	3.05	3.05	0.1
	PLX-8608(A)	Yes	0.10	0.10	0.1
	Primary-ZYNQ	No	1.53	1.53	0.1
	SB Certificates(A)	No	1.00	1.00	0.0
NCS4K-2H10T-OP-KS	Backup-ZYNQ	Yes	1.75	1.00	0.1
	CCC-FPGA(A)	No	1.44	1.44	0.1
	CCC-Power-On(A)	No	1.08	1.08	0.1
	DIGI1	No	2.03	2.03	0.1
	DIGI2	No	2.03	2.03	0.1
	Ethernet Switch(A)	Yes	1.02	1.02	0.1
	GRIMA	Yes	1.35	1.35	0.1
	PLX-8649(A)	Yes	0.07	0.07	0.1
	Primary-ZYNQ	No	1.75	1.75	0.1
	SB Certificates(A)	No	1.00	1.00	0.0
NCS4K-4H-OP-K	Backup-ZYNQ	Yes	0.09	0.09	0.1
	CCC-FPGA(A)	Yes	2.02	2.02	0.1
	CCC-Power-On(A)	Yes	1.06	1.06	0.1
	DIGI1	No	2.03	2.03	0.1
	DIGI2	No	2.03	2.03	0.1
	Ethernet Switch(A)	Yes	1.01	1.01	0.1
	LEPTON	No	5.00	5.00	0.1
	PLX-8649(A)	Yes	0.01	0.01	0.1
	Primary-ZYNQ	No	1.09	1.09	0.1
	SB Certificates(A)	No	1.00	1.00	0.0

NCS4K-AC-PSU	AB-PriMCU(A)	No	1.31	1.31	0.1
	AB-Sec54vMCU(A)	No	1.49	1.49	0.1
	AB-Sec5vMCU(A)	No	1.43	1.43	0.1
	DT-PriMCU(A)	No	3.00	3.00	1.0
	DT-PriMCU(A)	No	1.06	1.06	0.2
	DT-PriMCU(A)	No	2.01	2.01	0.3
	DT-Sec54vMCU(A)	No	4.00	4.00	1.0
	DT-Sec54vMCU(A)	No	2.03	2.03	0.2
	DT-Sec54vMCU(A)	No	3.02	3.02	0.3
	DT-Sec54vMCU(A)	No	3.01	3.01	1.0
	DT-Sec54MCU(A)	No	1.09	1.09	0.2
	DT-Sec5vMCU(A)	Yes	2.02	2.02	0.3
	NCS4K-CRAFT	Craft-NCS4009(A)	No	1.03	1.03
Craft-NCS4016(A)		No	1.04	1.04	0.1
NCS4K-DC-PSU-V1	AB-PriMCU(A)	No	1.26	1.26	0.1
	AB-Sec54vMCU(A)	No	1.41	1.41	0.1
	AB-Sec5vMCU(A)	No	1.52	1.52	0.1
	DT-Pri2MCU(A)	No	3.02	3.02	1.0
	DT-Pri2MCU(A)	No	2.02	2.02	0.2
	DT-PriMCU(A)	No	3.02	3.02	1.0
	DT-PriMCU(A)	No	2.02	2.02	0.2
	DT-Sec54v2MCU(A)	No	3.01	3.00	1.0
	DT-Sec54v2MCU(A)	No	2.05	2.05	0.2
	DT-Sec54vMCU(A)	No	3.01	3.00	1.0
	DT-Sec54vMCU(A)	No	2.05	2.05	0.2
	DT-Sec54MCU(A)	No	3.04	3.02	1.0
	DT-Sec5vMCU(A)	No	2.06	2.06	0.2
NCS4K-ECU	ECU-FPGA(A)	No	3.01	3.01	0.1
NCS4K-FTA	Fantray-FPGA(A)	No	3.01	3.01	0.1

NCS4K-RP	BACKUP-BIOS(A)	Yes	14.02	1.00	0.1
	Backup-CCC-PwrOn(A)	Yes	1.19	1.00	0.1
	Backup-Ethswitch(A)	Yes	1.36	1.00	0.1
	Backup-Timing(A)	Yes	3.49	3.00	0.1
	BP-FPGA(A)	No	3.17	3.17	0.1
	CCC-Bootloader	Yes	4.21	4.21	0.1
	CCC-FPGA(A)	Yes	4.21	4.21	0.1
	CCC-Power-On(A)	Yes	1.19	1.19	0.1
	CPU-Complex-Bckkey(A)	Yes	1.00	1.00	0.1
	CPU-Complex-Boot(A)	Yes	2.04	2.04	0.1
	CPU-Complex-FPGA(A)	Yes	2.04	2.04	0.1
	CPU-Complex-Prikey(A)	Yes	1.00	1.00	0.1
	Ethernet Switch(A)	Yes	1.36	1.36	0.1
	PLX-8649(A)	Yes	0.08	0.08	0.1
	PLX-8696(A)	Yes	0.05	0.05	0.1
	Primary-BIOS(A)	Yes	14.03	14.03	0.1
	SB Backup(A)	No	1.00	1.00	0.0
	SB Certificates(A)	No	1.00	1.00	0.0
	SB Primary Key(A)	No	1.00	1.00	0.0
	Timing FPGA(A)	Yes	3.49	3.49	0.1
P-S-FANTRAY	Fantray-FPGA(A)	No	2.04	2.04	0.2

## Cisco Bug Search Tool

Use the Bug Search Tool (BST) to view the list of outstanding and resolved bugs in a release.

BST, the online successor to Bug Toolkit, is designed to improve the effectiveness in network risk management and device troubleshooting. The tool allows partners and customers to search for software bugs based on product, release, and keyword, and aggregates key data such as bug details, product, and version. The tool has provision to filter bugs based on credentials to provide external and internal bug views for the search input.

### Search Bugs in BST

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- Step 1** Go to <https://tools.cisco.com/bugsearch/>. You will be prompted to log into Cisco.com. After successful login, the Bug Toolkit page open.
- Step 2** Enter the bug ID in the Search For: field. To search for release 6.1.1.2 bugs, enter the following parameters in the page:
- Search For – Enter NCS4k in the text box.
  - Releases – Enter 6.1.1.2.

c) Show Bugs – Select Affecting or Fixed in these Releases

**Step 3**

Press Enter.

- By default, the search results include bugs with all severity levels and statuses, and bugs that were modified during the life cycle of the bug. After you perform a search, you can filter your search results to meet your search requirements.
- An initial set of 25 search results is shown in the bottom pane. Drag the scroll bar to display the next set of 25 results. Pagination of search results is not supported.

**Additional References**

## Related Document

Use the Release Notes for Cisco NCS 4016, Release 6.1.1.2 with the following publications:

Cisco Network Convergence System 4000 Series Hardware Installation Guide	Provides installation information about the Cisco NCS 4009 and Cisco NCS 4016 chassis.
Cisco Network Convergence System 4000 Series Unpacking, Moving, and Securing Guide	Provides instructions for unpacking the Cisco NCS 4009 and Cisco NCS 4016 chassis, moving the chassis to its permanent location, and mounting the chassis in a rack.
Regulatory Compliance and Safety Information for the Cisco Network Convergence System 4000 Series Chassis	Provides the international agency compliance, safety, and statutory information that apply to Cisco NCS 4009 and Cisco NCS 4016 chassis.
OTN and WDM Configuration Guide for Cisco NCS 4000 Series	Provides background and reference material, procedures to configure and maintain the Cisco NCS 4009 and Cisco NCS 4016 chassis.
OTN and WDM Command Reference for Cisco NCS 4000 Series	Provides the various commands available to configure and maintain the Cisco NCS 4009 and Cisco NCS 4016 chassis.
System Setup and Software Installation Guide for Cisco NCS 4000 Series	Provides instructions to set up the system and perform software installation.

## Technical Assistance

Link	Description
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<p><a href="http://www.cisco.com/cisco/web/support/index.html">http://www.cisco.com/cisco/web/support/index.html</a></p>	<p>The Cisco Support website provides extensive online resources, including documentation and tools for troubleshooting and resolving technical issues with Cisco products and technologies.</p> <p>To receive security and technical information about your products, you can subscribe to various services, such as the Product Alert Tool (accessed from Field Notices), the Cisco Technical Services Newsletter, and Really Simple Syndication (RSS) Feeds</p> <p>Access to most tools on the Cisco Support website requires a Cisco.com user ID and password.</p>
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