

# Release Notes for Cisco NCS 2000 Series, Releases 11.12 and 11.1.2.3

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## Cisco NCS 2000 Series Release Notes



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This Release Notes document contains information about new features and enhancements, in the Cisco platforms.

## Software and Hardware Requirements

Before you begin to install the software, you must check whether your system meets the following 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 the following operating systems:
  - 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—JRE 1.8 and later.
- Java version 8.0
- Browser:

- Internet Explorer
- Mozilla Firefox
- Safari
- Google Chrome

## Changes in Release 11.1.2.3

Cisco is continuously enhancing the product with every release and this section covers a brief description of changes in this release.

### TACACS Idle Timeout Considerations:

- From release 11.1.2.3, the TACACS server sends the idle timeout value in the minutes. Previously the unit for idle timeout value was seconds. After you upgrade to release 11.1.2.3, the idle timeout value unit gets adjusted to minutes from seconds.

Example: On the TACACS server, the idle timeout value of 900 seconds gets changed to 900 minutes after you upgrade to release 11.1.2.3.

- The default idle timeout value on the TACACS server is 60 minutes. If you set an idle timeout value on the ISE/ACS TACACS server, the TACACS authenticated sessions expire when the idle timeout value is reached. However, if the CTC client is active after the idle timeout has expired, the CTC session remains open.

## Caveats

### Open Caveats in Release 11.1.2.3

The following table lists the open caveats:

Identifier	Headline
<a href="#">CSCwb66820</a>	Random traffic errors on 400G-XP clients when connected to a 10x10G-LC CXP Fanout
<a href="#">CSCwb63907</a>	HI-LASERTEMP alarm on the CXP ports of a 10x10G-LC
<a href="#">CSCwa91226</a>	NCS2K ONS-SC-OSC-18.0= pluggable RX power range [-22.8dBm, -50dBm] due to h/w limitation
<a href="#">CSCvw49760</a>	RAMAN need alarm raised during abort if no pump on
<a href="#">CSCwb44954</a>	Active login showing junk IPV4 ip when CTC launched with IPv6 ip
<a href="#">CSCwb35138</a>	TL1 does not support for adding Multiple REGEN Constraints
<a href="#">CSCwa87699</a>	TNCS2/TNCS2O: Post switchover ending with CONTBUS reported by LCs and EMS port down state

Identifier	Headline
<a href="#">CSCwb76743</a>	No pop-up or event has been sent when "Notify when completed" flag is selected

## Resolved Caveats in Release 11.1.2.3

The following table lists the resolved caveats:

Identifier	Headline
<a href="#">CSCwb10645</a>	Unclear error message trying to create IPC with LMP present
<a href="#">CSCvy24166</a>	10x10G-LC, 10Ge to OTU2e CBR transponder mode configuration, latency variation improvement
<a href="#">CSCvy79016</a>	passive device connected to SSC with TNCS-2 TNCS-2O disappear while activating 11.1.2
<a href="#">CSCwb14928</a>	Unwanted prints on Controller while collecting diagnostics logs when Temp.PTB is "0" size.
<a href="#">CSCvz76849</a>	400G-XP: FEC PM Uncorrectable Words counter remain valid during fiber cut
<a href="#">CSCvw97478</a>	tCPReq keepAlive failure or cold reset in case of RTXP on LAN
<a href="#">CSCvy35710</a>	[CPAK-FR-S]: Discrepancy in actual eqpt type in CTC and TL1 for CPAK-FR-S
<a href="#">CSCwb56922</a>	Refresh button under optics PM is not working after Pluggable port creation/deletion on 10x10G
<a href="#">CSCwb55266</a>	NCS2000: Secure TL1 - Flow control improvement at SSH
<a href="#">CSCvz09027</a>	PARAM-MISM condition configuring Gain Degradation Thresholds higher than 30dB
<a href="#">CSCwb11002</a>	TL1 Unclear error message trying to create IPC with LMP present
<a href="#">CSCwa24019</a>	User unable to login to node via TL1/Vxworks and ExcTask in suspended state
<a href="#">CSCwb71185</a>	M12 nodes crashing with tSshd task exception
<a href="#">CSCvv40170</a>	Pre-provisioned regen cards OR pre-prov REGEN card PPMs cause periodic node cold reboot
<a href="#">CSCwa73593</a>	Version not updated in CTC Launcher
<a href="#">CSCvy51837</a>	[Encryption]: KEY-EX-FAIL alarm on LCs when NE and FE are different releases
<a href="#">CSCvz60351</a>	SMR20 card in 2nd Layer add/drop stage may remain with ALS enabled
<a href="#">CSCvz52384</a>	KEY-EX-FAIL alarm on 400G-XP when NE and FE are different releases
<a href="#">CSCvv00112</a>	CET: Node took autoreset on tNPRTask (deadlock by OTDRMgr in a specific scenario)
<a href="#">CSCwa82623</a>	Node reset after sending RTRV-CPSRESTPATH TL1 command

Identifier	Headline
<a href="#">CSCwa26376</a>	10x10G-LC card with FANOUT Mode fails to boot if the CXP is plugged in
<a href="#">CSCvu64436</a>	Node hung with legacy Card (Non TNCS2/Non TNCS2O) - flooding of tNetTask with netJobAdd continuously
<a href="#">CSCvy90108</a>	After Downgrade both controller cards are in roll reboot
<a href="#">CSCvz65077</a>	OBFL file is corrupted while writing logs to it
<a href="#">CSCvs28305</a>	TNCS2O/TNCS2/TNCS/TNCO: CTC shows optical powers swapped on OSC current PM
<a href="#">CSCvz82717</a>	SMR20 side card in 2nd Layer add/drop configuratio may not start APC regulation
<a href="#">CSCwb41677</a>	TACACS superuser incorrect logged in as retrieval user
<a href="#">CSCwa49941</a>	Reverted and activated circuits being deleted incorrectly because of preemption
<a href="#">CSCvv98192</a>	Circuit down due to 200G regen trunk state change from OOS_MT to IS during circuit activation
<a href="#">CSCwa56195</a>	Evaluation of CTC for Log4j RCE (Log4Shell) Vulnerability
<a href="#">CSCvw06490</a>	Random traffic hits/OPR alarms seen on cckts spanning long smr-flex chains (more than ~12 SMR-FLEX)
<a href="#">CSCvz01455</a>	CTC not able to discover nodes/links randomly - CORBA task struck in SSL_read
<a href="#">CSCwa70823</a>	ONS-SC-OSC-18.0 SFP for RAMAN link reports incorrect OSC RX power
<a href="#">CSCvw76302</a>	On executing active TNC MANRESET - Standby takes one autoreset / fails to takeover as new active
<a href="#">CSCvz30524</a>	TNC switch/LC manreset with expired license leads to No relevant alarm/ silent trunk laser off
<a href="#">CSCwa33828</a>	TNC crash at startup of CV
<a href="#">CSCvz55021</a>	Data path goes down with INVALID-MUXCONF alarm when s/w upgrade is performed[11.12-F to 12.30-SSON]
<a href="#">CSCvx08604</a>	SMR9/20: Random traffic hits on span seen due to OTDR scan/OSC LOS/Automatic OTDR training
<a href="#">CSCvv00564</a>	OCH-TRAIL reverted to main path but the circuit state stayed in ADMIN_OOS_DSBLD
<a href="#">CSCwb35129</a>	TACACS authenticated TL1 sessions closed at different timeout value instead of actual value set
<a href="#">CSCvz76622</a>	TL1 response of rtrv-CPSRESTPATH::ALL:123; is having ??? for a restored Remote txp circuits
<a href="#">CSCwa70609</a>	[SRC][CT1881]SecurityControlError: Certificate lifetime should not exceed 5 years

Identifier	Headline
<a href="#">CSCwb34989</a>	[MR-MXP]:FPGA upgrade operation with no FPGA change image is causing hard reset on card
<a href="#">CSCwb08798</a>	Restored circuit does not use the regenerator of the main circuit
<a href="#">CSCvw07940</a>	TACACS Idle Timeout not working and excessive high stale users present
<a href="#">CSCvy42283</a>	NCS2006: In NCS2K network regen(NCS1004) is not selected correctly by media channel(MCH)
<a href="#">CSCwb41155</a>	ent-mch erroneously requires the user/machine to use uppercase characters for the tail-end MPO AID
<a href="#">CSCvt18849</a>	[CTC]:Inconsistent optics PM values for payload provisioned under SR PPM on MR-MXP card
<a href="#">CSCwb16732</a>	GMPLS resignal retry interval for external trunk continuously increase when trunk is admin down
<a href="#">CSCvw57946</a>	TNCS2O FRCD reloaded with error "Data buffers percentage critical: 19% free", R11.12, Build-19
<a href="#">CSCvs11669</a>	SSH CTR cipher not working
<a href="#">CSCvx16952</a>	Pt to pt wson circuit goes stuck in restoring state (during restore) if restore constraints reversed
<a href="#">CSCvw56996</a>	Task CORBA blocked waiting on ssl connection socket preventing CTC sessions to open
<a href="#">CSCvz05698</a>	CV does not verify some patch-cords if there is a RAMAN card present in the node
<a href="#">CSCvu28030</a>	Regen node TNCS/TNCS-O resets during WSON circuit signaling
<a href="#">CSCvz56797</a>	[TNC]: Controller card went for a task while performing license rehost operation
<a href="#">CSCvz14082</a>	IPC creation is allowed when the LMP is active with TXPCONTROLMODE=GMPLS.
<a href="#">CSCvy89029</a>	M12: During Upgrade I/O cards are reporting Fake alarm "COLD-RESTART" Instead of AUTO-RESET
<a href="#">CSCvy65667</a>	[MR-MXP]:Sometime FPGA upgrade failed on MR-MXP card and card is going for crash
<a href="#">CSCwb00448</a>	PPM High Power/FW Upgrade Failure after the upgrade from Rel 11.112
<a href="#">CSCvy15822</a>	ACT/SBY Controller tHwHiPriPoll exception reset seen randomly
<a href="#">CSCvy69186</a>	TNC randomly need 10+ minutes to switchover
<a href="#">CSCwb38410</a>	[MR-MXP]:Some time FPGA upgrade operation causes SOFT-VERF-FAIL on MR-MXP card
<a href="#">CSCwb02021</a>	Circuit not restored in presence of APC_DISABLED alarm on the shortest path

Identifier	Headline
<a href="#">CSCwb26280</a>	11.123:Copy rights of CTC debug window showing as 2000-2006 only, need to correct it
<a href="#">CSCvz52382</a>	KEY-EX-FAIL alarm on Mr-Mxp when NE and FE are different releases

## 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.

## What's New in Release 11.12

Cisco is continuously enhancing the product with every release and this section covers a brief description of key features and enhancements. It also includes links to detailed documentation, where available.

Feature	Description
<b>Control Card and Node Configuration</b>	
<a href="#">Fiber Shuffle Upgrade</a>	This feature allows you to upgrade the Boot ROM version, OS Kernel, and Uboot version of the fiber shuffle through CTC.
<b>Line Card Configuration</b>	
<a href="#">Dynamic Power Allocation on 200G-CK-LC and 400G-XP-LC Cards</a>	This feature allows you to dynamically allocate power based on the line card operating mode. This maximises the usage of the NCS 2015 chassis slots in a 2+2 PSU configuration. This feature is supported on the 200G-CK-LC and 400G-XP-LC cards.
<a href="#">Secure Unique Device Identification (SUDI) SUDI 2099 Certificates for WSE, MR-MXP, and 400G XP Cards</a>	<p>This enhancement allows you to extend the usage of WSE, MR-MXP and 400G-XP-LC cards with encryption functionality beyond year 2029. This extended validity helps to avoid encryption and card upgrade failures.</p> <p>The existing SUDI 2029 certificate allows the user to have encryption functionality only for ten years from the card installation or until 2029 whichever is earlier. This enhancement to include SUDI certificate 2099 on the software allows the user to extend the usage of encryption functionality up to year 2099. Both the near-end and far-end nodes must use the same SUDI certificate.</p>
<b>Network Configuration</b>	

Feature	Description
<a href="#">Custom Alien Wavelength and MEDIA CHANNEL OCH NC circuit management through CTC</a>	<p>The feature allows you to create an MCH custom alien wavelength and the associated MEDIA CHANNEL OCH NC circuit specifying the following parameters through CTC:</p> <ul style="list-style-type: none"> <li>• Signal width</li> <li>• Modulation guard band</li> <li>• Filtering guard band</li> </ul> <p>This functionality enables you to create a medial channel of any spectrum size, for example, signal width of 34.20 GHz, modulation GB of 1.71 GHz, and filtering GB of 4.92 GHz.</p>
<a href="#">ZR+ configuration support on NCS 2000 with 6AD passive add or drop in colorless configuration.</a>	<p>The following two alien wavelengths are supported in R11.12:</p> <ul style="list-style-type: none"> <li>• QSFP-DD-ZR</li> <li>• QSFP-DD-ZR+</li> </ul>
<b>Installing the GBIC, SFP, SFP+, QSFP, XFP, CXP, CFP and CPAK Optical Modules in Cisco NCS Platforms</b>	
<a href="#">Pluggables Support</a>	<ul style="list-style-type: none"> <li>• QSFP-100G-FR-S pluggable is supported on 400G-XP-LC card.</li> <li>• CPAK-100G-FR pluggable is supported on 200G-CK-LC and MR-MXP cards</li> </ul>

**TLS Version Support**

The supported version of Transport Layer Security (TLS) protocol is 1.2.

## Caveats

### Open Caveats in Release 11.12

The following table lists the open caveats:

Caveat ID Number	Description
<a href="#">CSCvy49234</a>	400G-XP-LC: Link error during auto switch for 100GE payloads on FR-S pluggable with squelch as LF.
<a href="#">CSCvy51837</a>	[Encryption]: KEY-EX-FAIL alarm on LCs when NE and FE are different releases.
<a href="#">CSCvy61787</a>	[EDVT 200G-CK-C+MR-MXP]: Traffic errors from CPAK-FRS (Tx side) on Titano 3 after node Power Cycle.

Caveat ID Number	Description
<a href="#">CSCvy61795</a>	[EDVT 200G-CK-C+MR-MXP]: Traffic errors from CPAK-FRS (Tx side) on Falco after node Power Cycle.
<a href="#">CSCvy65667</a>	[MR-MXP]: Tyler FPGA upgrade fail on MR-MXP card.
<a href="#">CSCvx09244</a>	CTC show NCS2k node with <code>Activating</code> pop-up even if the operation completed.
<a href="#">CSCvx29636</a>	TL1 output for OPWR is wrong for RAMAN interfaces.
<a href="#">CSCvx60735</a>	CTC disconnected and fail to reconnect.
<a href="#">CSCvy43195</a>	Signal Width, Modulation GB and Filtering GB should be filtered for <code>OCHCC/OCHTRAIL/CARRIER</code> .
<a href="#">CSCvy46793</a>	CTC - Minimum required characters are not taken into account while evaluating the password change.
<a href="#">CSCvy53238</a>	400G-XP-LC: Link error is displayed during trunk terminal loopback on FR-S pluggable with Squelch as <code>LF</code> .
<a href="#">CSCvy53260</a>	400G-XP-LC: CTC:OCH port listing is present for 100G-QSFP-FR-S pluggable under Optics Threshold which must be removed.
<a href="#">CSCvy58760</a>	FS firmware upgrade fails on TNCS-2 TNCS-2O cards.
<a href="#">CSCvy69171</a>	TNC does silent reboot 3 minutes after switchover.
<a href="#">CSCvy69186</a>	TNC randomly need 10+ minutes to switchover.
<a href="#">CSCvy69329</a>	400G-XP-LC: Traffic does not recover on E2E Setup with FR-S on one end and SMSR on the other end in some cases with physical loopback.
<a href="#">CSCvy75765</a>	MR-MXP: UNC-WORD events report for OTU2 payload upon LC warm reboot.
<a href="#">CSCvy79016</a>	Passive device connected to SSC with TNCS-2 TNCS-2O disappear while activating 11.12.
<a href="#">CSCvy89029</a>	M12: During upgrade, I/O cards report fake alarm <code>COLD-RESTART</code> instead of <code>AUTO-RESET</code> .
<a href="#">CSCvz14082</a>	IPC creation is allowed when the LMP is active with <code>TXPCONTROLMODE=GMPLS</code> .



Caveat ID Number	Description
<a href="#">CSCvz11616</a>	Attempting to edit the <code>TXPCONTROLMODE</code> from Local to None and vice versa from TL1/CTC is not allowed.

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## Other Important Information and References

### Alarms

The following alarm is added:

- ENC-CERT-EXP

### Documentation Roadmap

Use the documentation roadmap to quickly access publications of Cisco NCS 2000 Series, Release 11.x.x <https://www.cisco.com/c/en/us/td/docs/optical/r11/ncs/doc-roadmap-ncs/b-ncsroadmap-11xx.html>

### JRE Compatibility

The [JRE Compatibility](#) table displays the JRE compatibility with NCS 2000 software releases.

### Supported Pluggables

The document at the following URL lists the GBIC, SFP, SFP+, QSFP, XFP, CXP, CFP, and CPAK modules that are supported on the Cisco NCS 2000 series platforms:

[http://www.cisco.com/c/en/us/td/docs/optical/spares/gbic/guides/b\\_ncs\\_pluggables.html](http://www.cisco.com/c/en/us/td/docs/optical/spares/gbic/guides/b_ncs_pluggables.html)

