



Cisco Nexus 3000 Series NX-OS Release Notes, Release 10.2(6)M

This document describes the features, issues, and exceptions of Cisco NX-OS Release 10.2(6)M software for use on Cisco Nexus 3500 and 3600 platform switches.

The new Cisco NX-OS Software Release and Image-naming Convention information is available here – [Cisco NX-OS Software Strategy and Lifecycle Guide](#).

Note: The documentation set for this product strives to use bias-free language. For the purposes of this documentation set, bias-free is defined as language that does not imply discrimination based on age, disability, gender, racial identity, ethnic identity, sexual orientation, socioeconomic status, and intersectionality. Exceptions may be present in the documentation due to language that is hardcoded in the user interfaces of the product software, language used based on RFP documentation, or language that is used by a referenced third-party product.

The following table lists the changes to this document.

Date	Description
September 01, 2023	Cisco NX-OS Release 10.2(6)M became available.

New and Enhanced Software Features

There are no new software features introduced in Cisco NX-OS Release 10.2(6)M for Cisco Nexus 3000 series.

New Hardware Features

There are no new hardware features introduced in Cisco NX-OS Release 10.2(6)M for Cisco Nexus 3000 series.

Release Image

Cisco Nexus 3000 Series platforms support only 64-bit image. The 64-bit Cisco NX-OS image filename begins with "nxos64-msll" (for example, nxos64-msll.10.2.6.M.bin) and this image is supported on Cisco Nexus 3600 series fixed switches and Cisco Nexus 3500-XL switches. 32-bit image is no longer supported.

Open Issues

The following table lists the open issues for Cisco Nexus 3000 Series switches in Cisco NX-OS Release 10.2(6)M. Click the Bug ID to search the [Cisco Bug Search Tool](#) for additional information about the bug.

Bug ID	Description																		
CSCwh23956	<p>Headline: Crash in the ptp1c process</p> <p>Symptoms: System reloads after the ptp1c process crashes. It will leave a core file similar to the following:</p> <pre>Nexus# show cores</pre> <table border="1"><thead><tr><th>VDC</th><th>Module</th><th>Instance</th><th>Process-name</th><th>PID</th><th>Date (Year-Month-Day Time)</th></tr></thead><tbody><tr><td>1</td><td>1</td><td>1</td><td>ptp1c</td><td>7879</td><td>2023-08-04 14:03:21</td></tr><tr><td>1</td><td>1</td><td>1</td><td>ptp1c</td><td>19500</td><td>2023-08-04 14:03:30</td></tr></tbody></table> <p>Workarounds: None</p>	VDC	Module	Instance	Process-name	PID	Date (Year-Month-Day Time)	1	1	1	ptp1c	7879	2023-08-04 14:03:21	1	1	1	ptp1c	19500	2023-08-04 14:03:30
VDC	Module	Instance	Process-name	PID	Date (Year-Month-Day Time)														
1	1	1	ptp1c	7879	2023-08-04 14:03:21														
1	1	1	ptp1c	19500	2023-08-04 14:03:30														
CSCwh29644	<p>Headline: N3548-XL does not show SPAN drops</p> <p>Symptoms: Missing SPAN packet copies.</p> <p>Workarounds: None</p>																		
CSCwh39986	<p>Headline: N3500 shows incorrect next-hop in routing hash cli output</p> <p>Symptoms: N3500 running 10.3.3 version of nxos shows incorrect next-hop in 'show routing hash' cli output when egress interface is SVI and there are 2 next-hops in associated vlan to reach destination subnet.</p> <p>Workarounds: None</p>																		

Resolved Issues

The following tables lists the resolved issues for Cisco Nexus 3000 Series switches in Cisco NX-OS Release 10.2(6)M. Click the Bug ID to search the [Cisco Bug Search Tool](#) for additional information about the bug.

Bug ID	Description
CSCwd88051	<p>Headline: Nexus 3000 Spanning-tree create instance for interface that is a part of a port-channel</p> <p>Symptoms: - Spanning will create instance on interface that is a part of a port-channel- This will cause STP disputes on the root bridge.</p> <p>Workarounds: Use " channel-group" without force option i.e., Configure MTU explicitly on Eth1/43 before running 'channel-group'.</p>
CSCwe32514	<p>Headline: Cisco Nexus 3000 switch (4GB) reloads with Kernel panic and no core.</p> <p>Symptoms: Cisco Nexus 3000 switches with 4GB RAM that run SNMP on Cisco NX-OS Releases lower than 9.3(9) or 10.2(6), frequently reload with kernel panic. There is no core getting generated due to low memory in the box. Device reports critical memory alert followed by reload due to kernel panic.</p> <p>Workarounds: None</p>
CSCwd86850	<p>Headline: Nexus 3548: L3 Adjacency is not programmed properly in hardware</p> <p>Symptoms: L3 adjacency is mis-programed in HW and routed packets to destination hosts are dropped. Issue might happen for single or multiple hosts.</p> <p>Workarounds: Running 'clear ip arp force-delete' for the affected entries triggers ARP learning again and HW entry is refreshed. Doing 'clear ip arp force-delete' for an entire subnet/VLAN might cause a couple of seconds of disruption.</p>
CSCwd89936	<p>Headline: N3500 fails to program SG L3 ltl-index after receiving igmpv3 source leave on mrouter port</p> <p>Symptoms: After mcast flow stop for about 3 minutes, l3-ltl will age on mtc, then start the mcast flow again, l3-ltl will never program.</p> <p>Workarounds: None</p>
CSCwe22458	<p>Headline: Nexus 3548 not acknowledging link up/down events.</p> <p>Symptoms: Once link is flapped, it remains in Link not connected state. Although we are receiving proper signal from other side and Good-2-bad and bad-2-good interrupts are getting generated, those are not getting asserted.</p> <p>Workarounds: Use the following commands:</p> <pre>#attach mod lmodule 1 #test hardware internal mtc-usd gpe 5 disablemodule 1 #test hardware internal mtc-usd gpe 5 enable</pre>
CSCwf89997	<p>Headline: Unexpected reload ipfib hap reset</p> <p>Symptoms: Unexpected reload on N3K System version: 9.3(10). ERSPAN was configured about 4 minutes before the device crashed. FIB functions were cycled recursively generating more than 4000 functions in the backtrace and system crashed. Last reload reason: Last reset at 435377 usecs after Thu Jun 22 10:26:36 2023 Reason: Reset Requested due to Fatal Module Error System version: 9.3(10) Service: ipfib hap reset</p> <p>Workarounds: None</p>

Bug ID	Description
CSCwh00127	<p>Headline: Kernel Panic due to HR Timeout & SMC</p> <p>Symptoms: Following kernel panic logs are seen on one of the N3K-C3548P-XL boxes.</p> <pre> \$ %KERN-0-SYSTEM_MSG: [11269926.144849] NMI watchdog: BUG: soft lockup - CPU#2 stuck for 22s! [swapper/2:0] - kernel %KERN-0-SYSTEM_MSG: [11269926.144869] NMI watchdog: BUG: soft lockup - CPU#0 stuck for 22s! [swapper/0:0] - kernel VDC-1 %% %VPC-2-PEER_KEEP_ALIVE_RECV_FAIL: In domain 1, VPC peer keep-alive receive has failed VDC-1 %% %KERN-0-SYSTEM_MSG: [11269926.144849] NMI watchdog: BUG: soft lockup - CPU#2 stuck for 22s! [swapper/2:0] - kernel VDC-1 %% %KERN-0-SYSTEM_MSG: [11269926.144869] NMI watchdog: BUG: soft lockup - CPU#0 stuck for 22s! [swapper/0:0] - kernel VDC-1 %% %KERN-0-SYSTEM_MSG: [11269926.148346] nxos_panic: Kernel panic - not syncing: softlockup: hung tasks - kernel VDC-1 %% %KERN-0-SYSTEM_MSG: [11269926.148415] ttyS console device is disabled - kernel VDC-1 %% %KERN-0-SYSTEM MSG: [11269926.150327] END: PANIC REPORT GENERATED AT 1689769096 - kernel </pre> <p>Workarounds: None</p>
CSCwh29639	<p>Headline: N3548 does not display all SPAN sessions in SPAN drop output</p> <p>Symptoms: N3548 does not display all SOAN sessions in 'show monitor session all drop' cli output</p> <p>Workarounds: Use 'show monitor session X drop' for each SPAN session.</p>

Device Hardware

The following tables list the Cisco Nexus 3500 and Cisco Nexus 3600 Series hardware that Cisco NX-OS Release 10.2(6)M supports. For additional information about the supported hardware, see the Hardware Installation Guide for your Cisco Nexus 3500 and Cisco Nexus 3600 Series devices.

Cisco Nexus 3500 Switches

Product ID	Description
N3K-C3548P-XL	Cisco Nexus 3548-XL switch

Cisco Nexus 3500 Series Fans, Fan Trays and Power Supplies

Product ID	Description
N2200-PAC-400W	Cisco Nexus 2000 or 3000 400W AC power supply, forward airflow (port side exhaust)
N2200-PAC-400W-B	Cisco Nexus 2000 or 3000 400W AC power supply, reverse airflow (port side intake)

Product ID	Description
N2200-PDC-400W	Cisco Nexus 2000 or 3000 400W DC power supply, forward airflow (port side exhaust)
N3K-PDC-350W-B	Cisco Nexus 2000 or 3000 350W DC power supply, reverse airflow (port side intake)
NXA-FAN-30CFM-B	Cisco Nexus 2000 or 3000 individual fan, reverse airflow (port side intake)
NXA-FAN-30CFM-F	Cisco Nexus 2000 or 3000 individual fan, forward airflow (port side exhaust)

Cisco Nexus 3600 Switches

Product ID	Description
N3K-C3636C-R	The Cisco Nexus 3636C-R is a 1 rack unit (RU) switch with 36 100-Gigabit QSFP28 ports, 40-Gigabit QSFP, 2 management ports, 1 console port, and 1 USB port. The switch supports both port-side exhaust and port-side intake airflow schemes. The switch has two power supplies, one for operations and the other for redundancy. Both power supplies must be either AC power supplies or DC power supplies.
N3K-C36180YC-R	The Cisco Nexus 36180YC-R is a 1 rack unit (RU) switch with 48 1/10/25-Gigabit SFP ports and 6 40-Gigabit QSFP/100-Gigabit QSFP28 ports, 1 management port, 1 console port, and 1 USB port. The switch supports both port-side exhaust and port-side intake airflow schemes. The switch has two power supplies, one for operations and the other for redundancy. Both power supplies must be either AC power supplies or DC power supplies.

Upgrade and Downgrade

To perform a software upgrade or downgrade, follow the instructions in *the Cisco Nexus 3500 Series NX-OS Software Upgrade and Downgrade Guide* and *Cisco Nexus 3600 Series NX-OS Software Upgrade and Downgrade Guide*.

For information about an In Service Software Upgrade (ISSU), see the [Cisco NX-OS ISSU Support Matrix](#).

MIB Support

The Cisco Management Information Base (MIB) list includes Cisco proprietary MIBs and many other Internet Engineering Task Force (IETF) standard MIBs. These standard MIBs are defined in Requests for Comments (RFCs). To find specific MIB information, you must examine the Cisco proprietary MIB structure and related IETF-standard MIBs supported by the Cisco Nexus 3000 Series switch. The MIB Support List is available at the following FTP sites:

<ftp://ftp.cisco.com/pub/mibs/supportlists/nexus3000/Nexus3000MIBSupportList.html>

Supported Optics

To determine which transceivers and cables are supported by Cisco Nexus 3000 Series switches, see the [Transceiver Module \(TMG\) Compatibility Matrix](#).

To see the transceiver specifications and installation information, see <https://www.cisco.com/c/en/us/support/interfaces-modules/transceiver-modules/products-installation-guides-list.html>.

Related Content

Cisco Nexus 3000 Series documentation: [Cisco Nexus 3000 Series switch documentation](#)

Cisco NX-OS Software Release and Image-naming Convention: [Cisco NX-OS Software Strategy and Lifecycle Guide](#)

Cisco Nexus 3000 and 9000 Series NX-API REST SDK User Guide and API Reference: [Cisco Nexus 3000 and 9000 Series NX-API REST SDK User Guide and API Reference.](#)

Licensing Information

- [Cisco NX-OS Licensing Guide](#)
- [Cisco Nexus 9000 and 3000 Series NX-OS Switch License Navigator](#)
- [Cisco Nexus Smart Licensing Using Policy User Guide](#)

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