



Cisco Nexus 3000 Series NX-OS Release Notes, Release 10.2(5)M

This document describes the features, issues, and exceptions of Cisco NX-OS Release 10.2(5)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
March 7, 2023	Cisco NX-OS Release 10.2(5)M became available.

New and Enhanced Software Features

There are no new software features introduced in Cisco NX-OS Release 10.2(5)M for Cisco Nexus 3000 series.

New Hardware Features

There are no new hardware features introduced in Cisco NX-OS Release 10.2(5)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.10.2.5.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(5)M. Click the Bug ID to search the [Cisco Bug Search Tool](#) for additional information about the bug.

Bug ID	Description
CSCwe42909	<p>Headline: interfaces not coming back up after reload on Nexus 3500</p> <p>Symptoms: Interfaces using SFP SFP-H10GB-CU1M could remain down after reload of vPC Primary switch</p> <p>Workarounds: Bounce the affected interface (shut/no shut) on the vPC peer that was not reloaded</p>
CSCwe00551	<p>Headline: Multicast first packet failed to created (S,G) entry on LHR</p> <p>Symptoms:</p> <ul style="list-style-type: none">• Receiver comes online before sender sends packet.• (*,G) entry created on RP, LHR and Intermediate routers.• Sender first Multicast packet getting punted to CPU on FHR.• (S,G) entry created on RP.• First packet not reaching to LHR and receiver.• Second multicast packet reaching to LHR and then (S,G) entry created on LHR.• Configure " ip routing multicast software-replicate" on FHR but no change. <p>Workarounds: Configure " ip routing multicast software-replicate iif" command on the RP.</p>

Resolved Issues

The following tables lists the resolved issues for Cisco Nexus 3000 Series switches in Cisco NX-OS Release 10.2(5)M. Click the Bug ID to search the [Cisco Bug Search Tool](#) for additional information about the bug.

Bug ID	Description
CSCwd38617	<p>Headline: N3K-C3548 punts DHCP/BOOTP packets to CPU for non-relay enabled vlans</p> <p>Symptoms: Observation of DHCP packets in Ethalyzer for a VLAN that is either has no SVI or is not configured for DHCP relay. Packets are counted as hits in " show system internal access-list input entries detail" for DHCP relay entries in another VLAN.</p> <p>Workarounds: None.</p>
CSCwd15533	<p>Headline: Removal of "flowcontrol receive on" stops pause frames from being counted on Nexus 3548.</p> <p>Symptoms: Receipt of a pause frame where "flowcontrol receive on" was previously configured. We no longer see the pause frame counter increment on the switch; however, the input error counter does continue to increment.</p> <p>Workarounds: Reload switch after removing "flowcontrol receive on" to acknowledge Rx pause frames per the interface counters.</p>
CSCwd13945	<p>Headline: Show hardware profile buffer monitor detail last 10 -or- last 15 displays repeated output.</p> <p>Symptoms: Nexus 3500 switch running Cisco NX-OS Release 9.3.9. Running the following command does not show the full interface output with "last 10" -or- "last 15" keyword.</p> <p>Workarounds: Use " show hardware profile buffer monitor detail last 1" command.</p>
CSCwd07045	<p>Headline: Nexus 3000 can only configure up to 3 syslog servers</p> <p>Symptoms: A Nexus 3000 series switch running 7.x, 9.x software will throw the following message when trying to configure more than 3 logging servers.</p> <p>Workarounds: None</p>
CSCwd94713	<p>Headline: ALGO_BOOST_SERVICES_PKG license gets triggered when configuring OpenFlow on Nexus 3500</p> <p>Symptoms: Nexus 3500 switches in version 9.3.x require ALGO_BOOST_SERVICES_PKG when OpenFlow is configured.</p> <pre> MXC.TAC.C.08-3548-01# show license usage Feature Ins Lic Status Expiry Date Comments Count----- -----NXOS_OE_PKG No - Unused -TP_SERVICES_PKG No - Unused -NXOS_ADVANTAGE_XF No - Unused - NXOS_ESSENTIALS_XF No - Unused -NETWORK_SERVICES_PKG No - Unused -LAN_BASE_SERVICES_PKG Yes - Unused never - ALGO_BOOST_SERVICES_PKG No - In use Honor Start 53M 15SLAN1K9_ENT_SERVICES_PKG No - Unused -LAN_ENTERPRISE_SERVICES_PKG No - Unused -----MXC.TAC.C.08-3548-01# show license usage ALGO_BOOST_SERVICES_PKG Application----- -----Warp Mode----- -----MXC.TAC.C.08-3548-01# The following log is seen in the logs after enabling the OpenFlow Hybrid Forwarding-Mode by using the 'hardware profile forwarding-mode openflow-hybrid' global config command.2004 Feb 1 11:52:31 switch %USER-2-SYSTEM_MSG: !!!!! WARNING: 'ALGO_BOOST_SERVICES_PKG' LICENSE NOT FOUND ON THE SYSTEM !!!!!. You have tried to enable a licensed feature [Warp mode] without installing the 'ALGO_BOOST_SERVICES_PKG' license, which has not been found on the system. - pltfm_config </pre> <p>Workarounds: None. OpenFlow should not require ALGO_BOOST_SERVICES_PKG license.</p>

Bug ID	Description
CSCwd90070	<p>Headline: Nexus 3548 in WARP mode may fail to correctly install ECMP ucast route.</p> <p>Symptoms: Nexus 3500 in WARP fails to forward unicast traffic. ECMP values 254/65535 for the destination route are installed in an internal table:</p> <pre>switch# slot 1 show hardware internal libsdk mtc cache-l3 ucast-cache-l3 valid-only i 254/65535 8203 1 4 10.0.0.0/24 254/65535 0 0 0 0 1 4100 aaaa:bbbb:cccc 0 0 1 0 0 56 0 0FIB_DROP are seen:# slot 1 show hardware internal libsdk mtc port exception-stats start-addr 44 end- addr 44 i "FRONT ASIC FIB_DROP" next 3FRONT ASIC PORT PORT PORT EXCEPTION STATISTICS ----- ----- RB_RES_CHECK1_ERR_B1 ROUTED_UCST_ERR FIB_DROP ----- ----- 0 4176 0 0 6 0</pre> <p>Workarounds: Only have a single path installed to the impacted destination or non-ECMP paths to impacted destination. You must then clear the route (show ip route 10.0.0.0/24).</p>
CSCwd75851	<p>Headline: /nxos/xlog getting filled 100% with repeated "copy run start" and log files are not getting rolled over.</p> <p>Symptoms: When configuration changes are done through automation and when multiple sessions try to save the config changes simultaneously and repeatedly, we may experience below syslogs:</p> <pre>2022 Oct 11 03:29:18.824 N3k %SYSMGR-3-CFGWRITE_FAILED: Configuration copy failed (error-id 0x401E0004).2022 Oct 11 03:29:20.983 N3k %SYSMGR-3-CFGWRITE_FAILED: Configuration copy failed (error-id 0x401E0000).Over the time, /nxos/xlog folder gets filled 100% and we may not able to save the config anymore.`show system internal flash`Mount-on 1K-blocks Used Available Use% Filesystem----- skipped ne/nxos/xlog 10240 10240 0 100 none <<<<<<<<<<</pre> <p>Workarounds: Avoid simultaneous config sessions and excessive/repeated config save operation.</p>

Device Hardware

The following tables list the Cisco Nexus 3500 and Cisco Nexus 3600 Series hardware that Cisco NX-OS Release 10.2(5)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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