



Cisco Nexus 3000 Series NX-OS Release Notes

Release 10.5(1)F

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.

Introduction

The Cisco Nexus 3000 Series NX-OS Release Notes document describes the features, issues, and exceptions of Cisco NX-OS Release 10.5(1)F software for use on Cisco Nexus 3500 and 3600 Series switches.

Changes to this document:

Date	Description
July 26, 2024	Cisco NX-OS Release 10.5(1)F became available.

New and Enhanced Software Features

New Software Features

Cisco NX-OS Release 10.5(1)F does not include any new software features for the Cisco Nexus 3000 Series.

New Enhanced Features

Cisco NX-OS Release 10.5(1)F does not include any new enhanced features for the Cisco Nexus 3000 Series.

Hardware Features

Cisco NX-OS Release 10.5(1)F does not include any new hardware features for the 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.10.5.1.F.bin) and this image is supported on Cisco Nexus 3600 series fixed switches and Cisco Nexus 3500-XL series switches. 32-bit image is no longer supported.

Open Issues

Bug ID	Description
CSCwh90029	Error fetching entries from hardware -- forwarding I2 table utilization instance all

Resolved Issues

Bug ID	Description
CSCwi36501	N3500 per-link BFD may not work when configured in specific order
CSCwi50982	N3500 NAT Tech Support missing aqlqos NAT related output
CSCwi51292	N3500XL may send untranslated traffic via NAT outside interface w/ static NAT outside configuration
CSCwi60990	N3500 NAT tcp syn timer continuously expires while tcp flow is active
CSCwi69136	N3500 reload caused by port_client process crash due to mtc_usd process being busy
CSCwi73964	N3500 logs endlessly misleading mcast NAT related error msg without mcast NAT configuration
CSCwi78813	'no link dfe adaptive-tuning' doesn't take affect on DAC ports
CSCwi91043	Remove 'test forwarding inconsistency' on nexus 3548 switches
CSCwi95405	VPC attached multicast receivers cannot subscribe to some multicast groups
CSCwj02146	BR removes vlan as the " show run all begin vlan" output is diff for N3K-C3172PQ 9.3.11 compact img
CSCwj34709	N3548: One Adjacency of ip routing not working in some failover scenario
CSCwi56653	N3548 show run service-reflect does not include complete SR configuration
CSCwk22889	N3K aqlqos hap reset

Device Hardware

The following tables list the Cisco Nexus 3500 and Cisco Nexus 3600 Series hardware that Cisco NX-OS Release 10.5(1)F 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-C3524P-XL	Cisco Nexus 3524-XL switch
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)
N2200-PDC-400W	Cisco Nexus 2000 or 3000 400W DC power supply, forward airflow (port side exhaust)

Product ID	Description
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	<p>The Cisco Nexus 36180YC-R is a 1 rack unit (RU) switch with 48 1/10/25-Gigabit SFP ports and 6 40Gigabit 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.</p> <p>From Cisco NX-OS Release 10.3(3)F, the following AC ports are supported on Cisco Nexus 36180YC-R (N3K-C36180YC-R):</p> <ul style="list-style-type: none"> • AC port-side exhaust (NXA-PAC-750W-PE) • AC port-side intake (NXA-PAC-750W-PI) <p>The following table provides information about spares support:</p> <ul style="list-style-type: none"> • The Typical/Minimum port-side intake and fan speed percentage is 50% and the maximum port-side intake and fan speed percentage is 100%. • The Typical/Minimum port-side exhaust and fan speed percentage is 70% and the maximum port-side exhaust and fan speed percentage is 100%. <p>For information about N3K-C36180YC-R, see Cisco Nexus 3600 Hardware Installation Guide.</p>

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:

<https://cisco.github.io/cisco-mibs/supportlists/nexus3000/Nexus3000MIBSupportList.html>

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 [Install and Upgrade Guides](#).

Related Content

This document describes and provides links to the user documentation available for Cisco Nexus 3000 Series documentation. To find a document online, use one of the links in this section.

Document Title	Description
Cisco Nexus 3000 Series switch documentation	Cisco Nexus 3000 Series documentation
Cisco NX-OS Software Strategy and Lifecycle Guide	Cisco NX-OS Software Release and Image-naming Convention
Cisco Nexus 3000 and 9000 Series NXAPI REST SDK User Guide and API Reference	Cisco Nexus 3000 and 9000 Series NX-API REST SDK User Guide and API Reference
Cisco NX-OS Licensing Guide Cisco Nexus 9000 and 3000 Series NX-OS Switch License Navigator Cisco Nexus Smart Licensing Using Policy User Guide	Licensing Information

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