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# Cisco Nexus 9000 Series NX-OS Release Notes

Release 10.5(5)M

**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

This document describes the features, issues, and limitations of Cisco NX-OS software Release 10.5(5)M for use on the Cisco Nexus 9000 Series switches.

| Date           | Description                        |
|----------------|------------------------------------|
| March 13, 2026 | Release 10.5(5)M became available. |

## Software features

There are no new software features introduced in Cisco NX-OS Release 10.5(5)M.

## Hardware features

There are no new hardware features introduced in Cisco NX-OS Release 10.5(5)M.

## Release image

In Cisco NX-OS Release 10.5(5)M, the following four 64-bit images are supported:

- The 64-bit Cisco NX-OS image filename with “nxos64-cs” as the prefix (for example, nxos64-cs.10.5.4.M.bin) is supported on all Cisco Nexus 9000 series switches except Cisco Nexus 9500 series -R and -R2 modular switches, Cisco Nexus 9800 switches, and N9364E-SG2 switches.
- The 64-bit Cisco NX-OS image filename with “nxos64-s1” as the prefix (for example, nxos64-s1.10.5.4.M.bin) is supported and mandatory on all Cisco Nexus 9800 and N9364E-SG2 switches.
- The 64-bit Cisco NX-OS image filename with “nxos64-msll” as the prefix (for example, nxos64-msll.10.5.4.M.bin) is supported on Cisco Nexus 9500 Series -R and -R2 modular switches.

**Note:** The 32-bit image is no longer supported.

## Open issues

Click the bug ID to access the Bug Search Tool and see additional information about the bug.

| Identifier                 | Headline   |
|----------------------------|--|
| <a href="#">CSCwj48097</a> | The throughput displayed by `show policy-map interface ethernet x/y` outputs as "n/a bps" in N9K.                                    |
| <a href="#">CSCwq99451</a> | Nexus 9504 with N9K-X9736C-FX fails to enable Eth1/33-34 (QSFP-40G-SR-BD) only to Catalyst 9407                                      |
| <a href="#">CSCwt28751</a> | N9K: IP Redirect Traffic punt to the CPU for software forwarding even source ip is remote leading to class-exception-diag CoPP drops |

| Identifier                 | Headline   |
|----------------------------|--|
| <a href="#">CSCwt32572</a> | Delayed OIF Addition/Deletion from MFIB  |
| <a href="#">CSCwt33693</a> | Primary Key migration missing Post ASCII reload  |
| <a href="#">CSCwt36003</a> | Service "tahud" crashes when QSFP with greater speed than supported by the module is inserted. |

## Resolved issues

Click the bug ID to access the Bug Search Tool and see additional information about the bug.

| Identifier                 | Headline   |
|----------------------------|--|
| <a href="#">CSCwk70839</a> | Evaluation of n9k-standalone-sw for BlastRADIUS vulnerability  |
| <a href="#">CSCwo90314</a> | When the aaa group1 cannot access the TACACS Server but the source-interface remains up, the permissions obtained by the role are abnormal |
| <a href="#">CSCwo94451</a> | Cisco Nexus 3600 and 9500-R Series Switching Platforms Layer 2 Loop Denial of Service Vulnerability  |
| <a href="#">CSCwp92116</a> | n9k/vxlan - vpc primary shut down cause flap on xconnect session from vpc secondary  |
| <a href="#">CSCwq07875</a> | SPAN Session Not Mirroring Traffic from Port-Channels After Interface Bounces  |
| <a href="#">CSCwq14316</a> | show ip route detail shows hex values when total routes are more than 1000   |
| <a href="#">CSCwq38959</a> | Tecate (2.5G/5G): Traffic drops due to frames stuck in buffer post ND-ISSU with 25.G/5G port speed   |
| <a href="#">CSCwr02378</a> | CLI Config Replace incorrectly fails because of error: Cannot give a peer's address as router-id   |
| <a href="#">CSCwr05122</a> | Links went down and did not come back up, TX NA, all ports affected  |
| <a href="#">CSCwr06060</a> | copy http bootflash should support FQDN with source-interface option   |
| <a href="#">CSCwr08364</a> | NX-OS: Prefix-List Name Auto-Completion Causes Incorrect List Selection When Multiple Similar Names Exist                                  |
| <a href="#">CSCwr10308</a> | VLAN mapping configuration removal disrupts translation for other mapped VLANs on the same interface                                       |
| <a href="#">CSCwr18454</a> | Egress QoS Policy on Eth1/1 causes L2ACLRedirect Diag failure and Kernel Panic   |
| <a href="#">CSCwr21496</a> | N9500 -R module: Multicast OIL programming delay after IGMP report/leave   |
| <a href="#">CSCwr30738</a> | STP Interface Port ID/Prio.Nbr Changed Post-Upgrade  |
| <a href="#">CSCwr33046</a> | duplicate entries in NTP configuration   |
| <a href="#">CSCwr34245</a> | Telemetry streaming getting dropped with yang path for bgp/arp   |
| <a href="#">CSCwr38006</a> | N9K - Micron 5100/5300/5400 Bootflash Read-Only  |

| Identifier                 | Headline  |
|----------------------------|---|
| <a href="#">CSCwr48569</a> | Syslog improperly formatted for certain POE entries   |
| <a href="#">CSCwr49862</a> | yum.plugin.pubkey_import.log consuming all filesystem space in /var/volatile/log                                      |
| <a href="#">CSCwr55605</a> | Clearing mac on one port leads to FLUSH for some MAC addresses in non-related VLAN                                    |
| <a href="#">CSCwr56724</a> | Any BGP session with type 6 encryption fails after device power-cycle   |
| <a href="#">CSCwr61228</a> | when one next-hop static route down the BGP default route learned will disappears                                     |
| <a href="#">CSCwr61312</a> | Compatibility check marks hidden ITD configuration " set ip next-hop verify-availability force-order" as incompatible |
| <a href="#">CSCwr63363</a> | MACsec session drops causing CDP neighbor loss and traffic disruption on the system                                   |
| <a href="#">CSCwr66389</a> | n9k/ptp - Follow up packet not send out of the " ptp master" port   |
| <a href="#">CSCwr66645</a> | vPC Member Ports May Stay Suspended After Peer-Link Loss  |
| <a href="#">CSCwr67091</a> | FX3 based Nexus 9300s interfaces may go down unexpectedly after reload or during runtime                              |
| <a href="#">CSCwr67663</a> | Not able to delete invalid /0 network command under BGP address-family  |
| <a href="#">CSCwr69853</a> | n9k/ptp - After GM failover or path change to current GM, MPD value might stay constant                               |
| <a href="#">CSCwr70144</a> | N9K - iftmc crash after removing vlan from trunk port and deleting the vlan   |
| <a href="#">CSCwr71686</a> | N9K-C93180YC-FX unexpected reboot when port-channel no-shut after upgrading to 10.6.1                                 |
| <a href="#">CSCwr73273</a> | Nginx worker process is crashing during gNMI scale subscription with more than 1024 active subscriptions              |
| <a href="#">CSCwr79751</a> | Missing IPv6 ACL for HTTP/NTP/FTP/etc. traffic under class-management   |
| <a href="#">CSCwr86171</a> | Nginx Crash in NX-OS 10.4   |
| <a href="#">CSCwr87622</a> | OTM Crash after reconfiguring track N9k running 10.3  |
| <a href="#">CSCws02056</a> | In Nexus NDB switches, tunnel termination with tunnel profile config + Redirect ACL leads to drops                    |
| <a href="#">CSCws10107</a> | N9K stops advertising BGP routes after flapping BGP sessions with low advertisement-interval                          |
| <a href="#">CSCws16162</a> | N9K link using a GLC-TE transceiver operates at half duplex when the remote device port is set to 100 M full duplex   |
| <a href="#">CSCws19374</a> | N9K-C93108TC-FX3 speed negotiation includes unsupported 2.5/5GB speeds on Base-T ports                                |
| <a href="#">CSCws24607</a> | The EEM policy configured as a combination of event triggers does not work as expected                                |
| <a href="#">CSCws26585</a> | Incorrect cVpcDualActiveDetectionStatus MIB Value   |
| <a href="#">CSCws31847</a> | Service " bloggerd" signal 11 segmentation fault  |
| <a href="#">CSCws32445</a> | VACL with MAC ACL Incorrectly Programmed in Hardware for IPv6 Underlay  |

| Identifier                 | Headline   |
|----------------------------|--|
| <a href="#">CSCws35761</a> | COPP Dense profile default value is incorrect in pps   |
| <a href="#">CSCws37242</a> | DME Consistency Checker Fails for License  |
| <a href="#">CSCws38283</a> | Block FTE configurations on EX/FX chassis on N9k EOR   |
| <a href="#">CSCws39671</a> | Unexpected reload due to memory allocation failure in pixmc  |
| <a href="#">CSCws40028</a> | " Match dscp tunnel" doesn't match traffic for non-IP traffic in VXLAN                                       |
| <a href="#">CSCws43219</a> | TCP-AO BGP neighborhood between Nexus & third-party switch fails when using crypto-algorithm hmac-sha-256    |
| <a href="#">CSCws45858</a> | IPFIB crashes when Multiple NDFC peers are upgraded at once  |
| <a href="#">CSCws47647</a> | Dynamic-Buffer-Sharing CLI Present but Non-Functional  |
| <a href="#">CSCws50647</a> | Openconfig interfaces/aggregate lag-speed not reflecting available port-channel bandwidth                    |
| <a href="#">CSCws52563</a> | Inherit Port-Profile command missing post upgrade  |
| <a href="#">CSCws55370</a> | vsan_debug.log file is not truncating when using FCOE, leading to memory leak                                |
| <a href="#">CSCws61299</a> | Unable to configure " icam monitor scale" in N9K-C93180YC-FX3H   |
| <a href="#">CSCws61687</a> | VXLAN traffic dropped at remote VTEP when typically reserved VLAN is used for VNI                            |
| <a href="#">CSCws69383</a> | Unable to login to console after numerous failed SSH login attempts  |
| <a href="#">CSCws75763</a> | telemetry : arp process core with sys/arp/inst ephemeral sensor  |
| <a href="#">CSCws83739</a> | N9K-C9364C-GX iCAM LPM scale number issue  |
| <a href="#">CSCws84657</a> | NETCONF/XML broken with ISSU   |
| <a href="#">CSCws92849</a> | NETCONF L3 Configuration Push May Crash Device Agent   |
| <a href="#">CSCws93840</a> | UFDM process crash on N9K-C9348GC-FX3PH during interface flap testing  |
| <a href="#">CSCwt02622</a> | Tahusd.log filling up the /var/tmp/  |
| <a href="#">CSCwt15427</a> | L2 multicast traffic drops in IGMP setup with consistency checker fails for MET PTR in hardware and software |
| <a href="#">CSCwt21539</a> | show interface brief command showing incorrect native vlan   |
| <a href="#">CSCwt25882</a> | NXOS Upgrade failure leaves Nexus stuck in bash prompt   |
| <a href="#">CSCwt33727</a> | SNMP Hangs after continuous polling + stuck snmp mts buffers   |
| <a href="#">CSCwt36004</a> | LLDP process is crashing continuously and generating core files.   |

## General/known issues

Click the bug ID to access the Bug Search Tool and see additional information about the bug.

| Bug ID                     | Description  |
|----------------------------|--|
| <a href="#">CSCvt37624</a> | 'The BGP instance is not in expected state' after quick bgp unconfig / reconfig with 700K ipv4 pfx |
| <a href="#">CSCwh44244</a> | DME inconsistency in sys/mplsta-[eth1/7/1] object after some CLI sequence                          |
| <a href="#">CSCwh88451</a> | URIB crashed on urib_chlist_seg_v_handler after restarting bgp and urib together                   |
| <a href="#">CSCwi22304</a> | TTL is not decremented for decap L3 VPN traffic on N9800   |
| <a href="#">CSCwi24238</a> | With NDFC/auto-config, VPC peer-link stays down on disable 'feature tunnel-encryption'             |
| <a href="#">CSCwi57646</a> | ESG_SGACL: Source of MAC detail is not seen in json output of MAC table                            |
| <a href="#">CSCwi87175</a> | slight drop in L2 multicast performance in N9K-C9364C-H1 switch                                    |
| <a href="#">CSCwi95768</a> | Loopback Ping is not working after enabling MPLS LDP at Interface                                  |
| <a href="#">CSCwi95977</a> | DME CC failure for mutiisite virtual rmac  |

## Device hardware

The following tables list the Cisco Nexus 9000 Series hardware that Cisco NX-OS Release 10.5(5)M supports. For additional information about the supported hardware, see the Hardware Installation Guide for your Cisco Nexus 9000 Series device.

**Table 1.** Cisco Nexus 9800 Switches

| Product ID | Description  |
|------------|--|
| N9K-C9808  | 16-RU modular switch with slots for up to 8 Line Cards in addition to 2 supervisors, 8 fabric modules, 4 fan trays, and 3 power trays. |
| N9K-C9804  | 10-RU modular switch with slots for up to 4 Line Cards in addition to 2 supervisors, 8 fabric modules, 4 fan trays, and 2 power trays. |

**Table 2.** Cisco Nexus 9800 Series Line Cards

| Product ID     | Description  |
|----------------|--|
| N9K-X9836DM-A  | Cisco Nexus 9800 36-port 400G QSFP-DD Line Card with MACsec.           |
| N9K-X98900CD-A | Cisco Nexus 9800 14-port 400G QSFP-DD + 34-port 100G QSFP28 Line Card. |

**Table 3.** Cisco Nexus 9800 Series Fabric Modules

| Product ID     | Description                                       |
|----------------|---|
| N9K-C9808-FM-A | Cisco Nexus 9800 Fabric Module for 8-slot Chassis |

| Product ID     | Description                                       |
|----------------|---|
| N9K-C9804-FM-A | Cisco Nexus 9800 Fabric Module for 4-slot Chassis |

**Table 4.** Cisco Nexus 9800 Supervisor Module

| Product ID      | Description                                 |
|-----------------|---|
| N9K-C9800-SUP-A | Cisco Nexus 9800 Platform Supervisor Module |

**Table 5.** Cisco Nexus 9800 Fans and Fan Trays

| Product ID      | Description   |
|-----------------|---|
| N9K-C9808-FAN-A | Cisco Nexus 9800 8-slot chassis fan tray (1 <sup>st</sup> Generation) |
| N9K-C9804-FAN-A | Cisco Nexus 9800 4-slot chassis fan tray (1 <sup>st</sup> Generation) |

**Table 6.** Cisco Nexus 9800 Power Supplies

| Product ID         | Description  |
|--------------------|--|
| N9K-HV 6.3KW 20A-A | Cisco Nexus 9800 6,300W 20A AC and HV Power Supply |

**Table 7.** Cisco Nexus 9500 Switches

| Product ID | Description   |
|------------|---|
| N9K-C9504  | 7-RU modular switch with slots for up to 4 Line Cards in addition to two supervisors, 2 system controllers, 3-6 fabric modules, 3 fan trays, and up to 4 power supplies.    |
| N9K-C9508  | 13-RU modular switch with slots for up to 8 Line Cards in addition to two supervisors, 2 system controllers, 3-6 fabric modules, 3 fan trays, and up to 8 power supplies.   |
| N9K-C9516  | 21-RU modular switch with slots for up to 16 Line Cards in addition to two supervisors, 2 system controllers, 3-6 fabric modules, 3 fan trays, and up to 10 power supplies. |

**Table 8.** Cisco Nexus 9500 Cloud Scale Line Cards

| Product ID     | Description   | Maximum Quantity |                  |                  |
|----------------|---|------------------|------------------|------------------|
|                |   | Cisco Nexus 9504 | Cisco Nexus 9508 | Cisco Nexus 9516 |
| N9K-X9716D-GX  | Cisco Nexus 9500 16-port 400G QSFP-DD Line Card                   | 4                | 8                | N/A              |
| N9K-X9736C-FX  | Cisco Nexus 9500 36-port 40/100 Gigabit Ethernet QSFP28 Line Card | 4                | 8                | 16               |
| N9K-X9736C-FX3 | Cisco Nexus 9500 36-port 40GE/100GE line card                     | 4                | 8                | 16               |

| Product ID      | Description   | Maximum Quantity |                  |                  |
|-----------------|---|------------------|------------------|------------------|
|                 |   | Cisco Nexus 9504 | Cisco Nexus 9508 | Cisco Nexus 9516 |
| N9K-X9788TC-FX  | Cisco Nexus 9500 48-port 1/10-G BASE-T Ethernet and 4-port 40/100 Gigabit Ethernet QSFP28 Line Card       | 4                | 8                | 16               |
| N9K-X97160YC-EX | Cisco Nexus 9500 48-port 10/25-Gigabit Ethernet SFP28 and 4-port 40/100 Gigabit Ethernet QSFP28 Line Card | 4                | 8                | 16               |
| N9K-X9732C-FX   | Cisco Nexus 9500 32-port 40/100 Gigabit Ethernet QSFP28 Line Card   | 4                | 8                | 16               |
| N9K-X9732C-EX   | Cisco Nexus 9500 32-port 40/100 Gigabit Ethernet QSFP28 Line Card   | 4                | 8                | 16               |
| N9K-X9736C-EX   | Cisco Nexus 9500 36-port 40/100 Gigabit Ethernet QSFP28 Line Card   | 4                | 8                | 16               |

**Table 9.** Cisco Nexus 9500 R-Series Line Cards

| Product ID     | Description  | Maximum Quantity |                  |
|----------------|--|------------------|------------------|
|                |  | Cisco Nexus 9504 | Cisco Nexus 9508 |
| N9K-X9636C-R   | Cisco Nexus 9500 36-port 40/100 Gigabit Ethernet QSFP28 Line Card  | 4                | 8                |
| N9K-X9636C-RX  | Cisco Nexus 9500 36-port 40/100 Gigabit Ethernet QSFP28 Line Card  | 4                | 8                |
| N9K-X9636Q-R   | Cisco Nexus 9500 36-port 40-Gigabit Ethernet QSFP Line Card  | 4                | 8                |
| N9K-X96136YC-R | Cisco Nexus 9500 16-port 1/10 Gigabit, 32-port 10/25 Gigabit, and 4-port 40/100 Gigabit Ethernet Line Card | 4                | 8                |
| N9K-X9624D-R2  | Cisco Nexus 9500 24-port 400-Gigabit QDD Line Card   | Not supported    | 8                |

**Table 10.** Cisco Nexus 9500 Cloud Scale Fabric Modules

| Product ID      | Description   | Minimum | Maximum |
|-----------------|---|---------|---------|
| N9K-C9504-FM-E  | Cisco Nexus 9504 100-Gigabit cloud scale fabric module    | 4       | 5       |
| N9K-C9504-FM-G  | Cisco Nexus 9500 4-slot 1.6Tbps cloud scale fabric module | 4       | 5       |
| N9K-C9508-FM-E  | Cisco Nexus 9508 100-Gigabit cloud scale fabric module    | 4       | 5       |
| N9K-C9508-FM-E2 | Cisco Nexus 9508 100-Gigabit cloud scale fabric module    | 4       | 5       |

| Product ID      | Description   | Minimum | Maximum |
|-----------------|---|---------|---------|
| N9K-C9508-FM-G  | Cisco Nexus 9500 8-slot 1.6Tbps cloud-scale fabric module | 4       | 5       |
| N9K-C9516-FM-E2 | Cisco Nexus 9516 100-Gigabit cloud scale fabric module    | 4       | 5       |

**Table 11.** Cisco Nexus 9500 R-Series Fabric Modules

| Product ID      | Description   | Minimum | Maximum |
|-----------------|---|---------|---------|
| N9K-C9504-FM-R  | Cisco Nexus 9504 100-Gigabit R-Series fabric module | 4       | 6       |
| N9K-C9508-FM-R  | Cisco Nexus 9508 100-Gigabit R-Series fabric module | 4       | 6       |
| N9K-C9508-FM-R2 | Cisco Nexus 9508 400-Gigabit R-Series fabric module | 4       | 6       |

**Table 12.** Cisco Nexus 9500 Supervisor Modules

| Supervisor | Description   | Maximum |
|------------|---|---------|
| N9K-SUP-A  | 1.8-GHz supervisor module with 4 cores, 4 threads, and 16 GB of memory  | 2       |
| N9K-SUP-A+ | 1.8-GHz supervisor module with 4 cores, 8 threads, and 16 GB of memory  | 2       |
| N9K-SUP-B  | 2.2-GHz supervisor module with 6 cores, 12 threads, and 24 GB of memory | 2       |
| N9K-SUP-B+ | 1.9-GHz supervisor module with 6 cores, 12 threads, and 32 GB of memory | 2       |

**Note:** N9K-SUP-A and N9K-SUP-A+ are not supported on Cisco Nexus 9504 and 9508 switches with -R and -R2 Line Cards.

**Table 13.** Cisco Nexus 9500 System Controller

| Product ID | Description  | Quantity |
|------------|--|----------|
| N9K-SC-A   | Cisco Nexus 9500 Platform System Controller Module | 2        |

**Table 14.** Cisco Nexus 9500 Fans and Fan Trays

| Product ID     | Description   | Quantity |
|----------------|---|----------|
| N9K-C9504-FAN  | Fan tray for 4-slot modular chassis                           | 3        |
| N9K-C9504-FAN2 | Fan tray that supports the Cisco N9K-C9504-FM-G fabric module | 3        |
| N9K-C9508-FAN  | Fan tray for 8-slot modular chassis                           | 3        |
| N9K-C9508-FAN2 | Fan tray that supports the Cisco N9K-C9508-FM-G fabric module | 3        |
| N9K-C9516-FAN  | Fan tray for 16-slot modular chassis                          | 3        |

**Table 15.** Cisco Nexus 9500 Fabric Module Blanks with Power Connector

| Product ID        | Description   | Minimum | Maximum |
|-------------------|---|---------|---------|
| N9K-C9504-FAN-PWR | Cisco Nexus 9500 4-slot chassis 400G cloud scale fan tray power connector | 1       | 2       |
| N9K-C9508-FAN-PWR | Cisco Nexus 9500 4-slot chassis 400G cloud scale fan tray power connector | 1       | 2       |

**Table 16.** Cisco Nexus 9500 Power Supplies

| Product ID       | Description                                     | Quantity | Cisco Nexus Switches |
|------------------|---|----------|----------------------|
| N9K-PAC-3000W-B  | 3-KW AC power supply                            | Up to 4  | Cisco Nexus 9504     |
|                  |   | Up to 8  | Cisco Nexus 9508     |
|                  |   | Up to 10 | Cisco Nexus 9516     |
| N9K-PDC-3000W-B  | 3-KW DC power supply                            | Up to 4  | Cisco Nexus 9504     |
|                  |   | Up to 8  | Cisco Nexus 9508     |
|                  |   | Up to 10 | Cisco Nexus 9516     |
| N9K-PUV-3000W-B  | 3-KW Universal AC/DC power supply               | Up to 4  | Cisco Nexus 9504     |
|                  |   | Up to 8  | Cisco Nexus 9508     |
|                  |   | Up to 10 | Cisco Nexus 9516     |
| N9K-PUV2-3000W-B | 3.15-KW Dual Input Universal AC/DC Power Supply | Up to 4  | Cisco Nexus 9504     |
|                  |   | Up to 8  | Cisco Nexus 9508     |
|                  |   | Up to 10 | Cisco Nexus 9516     |

**Table 17.** Cisco Nexus 9400 Switches

| Product ID        | Description   |
|-------------------|---|
| N9K-C9408         | 4-RU, 8-slot centralized modular chassis switch, which is configurable with up to 128 200-Gigabit QSFP56 (256 100 Gigabit by breakout) ports or 64 400-Gigabit ports. |
| N9K-C9400-SUP-A   | Cisco Nexus 9400 Supervisor Card  |
| N9K-C9400-SW-GX2A | Cisco Nexus 9400 25.6Tbps Switch Card   |
| N9K-X9400-8D      | Cisco Nexus 9400 8p 400G QSFP-DD LEM  |
| N9K-X9400-16W     | Cisco Nexus 9400 16p 200G QSFP56 LEM  |
| N9K-X9400-22L     | Cisco Nexus 9400 LEM with 22 10G/25G/50G ports.   |

**Table 18.** Cisco Nexus 9200 and 9300 Switches

| Cisco Nexus Switch | Description  |
|--------------------|--|
| N9364E-SG2-Q       | <p>The Cisco Nexus 9364E-SG2-Q switch is a 2-rack unit (RU), fixed-port, high-density switch</p> <p>designed to support high-density 800G fabrics for next generation leaf and spine designs.</p>  |
| N9364E-SG2-O       | <p>The Cisco Nexus 9364E-SG2-O Switch is a 2-rack unit (RU), fixed-port, high-density switch</p> <p>designed to support high-density 800G fabrics for next generation leaf and spine designs.</p>  |
| N9K-C92348GC-X     | <p>The Cisco Nexus 92348GC-X switch (N9K-C92348GC-X) is a 1-RU switch that supports 696 Gbps of bandwidth and over 250 mpps.</p> <p>The 1GBASE-T downlink ports on the 92348GC-X can be configured to work as 100 Mbps, 1-Gbps ports.</p> <p>The 4 ports of SFP28 can be configured as 1/10/25-Gbps and the two-ports of QSFP28 can be configured as 40- and 100-Gbps ports.</p> <p>The Cisco Nexus 92348GC-X is ideal for Big Data customers that require a Gigabit Ethernet ToR switch with local switching.</p> |
| N9K-C93400LD-H1    | <p>1-RU fixed-port, L2/L3 switch with 48 50G SFP56 ports and 4 400G QSFP-DD uplink ports.</p>  |
| N9K-C93108TC-FX3   | <p>1 RU fixed-port switch Forty-eight 100M/1G/10GBASE-T ports (ports 1-48), Six 40/100-Gigabit ports QSFP28 (ports 49-54), Two management ports (one 10/100/1000BASE-T port and one SFP port), One console port (RS-232), and one USB port.</p>  |
| N9K-C9332D-H2R     | <p>1-RU fixed-port switch with 400-Gigabit QSFP-DD ports (32), 10-Gigabit SFP+ ports (2), Management ports (one 10/100/1000BASE-T port and one SFP port), console port (RS-232), and USB port.</p>   |
| N9K-C9348GC-FX3    | <p>1 RU fixed-port switch 48 10/100/1000M copper RJ-45 downlink ports, 4 10-/25G SFP28 uplink ports, and 2 40-/100G QSFP28 uplink ports.</p>   |
| N9K-C9348GC-FX3PH  | <p>1-RU fixed-port switch 40 10M/100M/1G copper RJ-45 downlink ports that support PoE/PoE+/PoE++ and 8 10M/100M copper RJ-45 downlink ports that support PoE/PoE+/PoE++, 4 10-/25G SFP28 uplink ports, and 2 40-/100G QSFP28 uplink ports.</p>   |
| N9K-C93180YC-FX3H  | <p>1-RU fixed-port switch with 24 100M/1/10/25-Gigabit Ethernet SFP28 ports (ports 1-24), 6 10/25/40/50/100-Gigabit QSFP28 ports (ports 49-54), One management port (one 10/100/1000BASE-T port), and One console port (RS-232)</p>  |
| N9K-C9316D-GX      | <p>1-RU switch with 16x400/100/40-Gbps ports.</p>  |
| N9K-C9364C-GX      | <p>2-RU fixed-port switch with 64 100-Gigabit SFP28 ports.</p>   |
| N9K-C93600CD-GX    | <p>1-RU fixed-port switch with 28 10/40/100-Gigabit QSFP28 ports (ports 1-28), 8 10/40/100/400-Gigabit QSFP-DD ports (ports 29-36)</p>   |

| Cisco Nexus Switch | Description  |
|--------------------|--|
| N9K-C9364C         | 2-RU Top-of-Rack switch with 64 40-/100-Gigabit QSFP28 ports and 2 1-/10-Gigabit SFP+ ports. <ul style="list-style-type: none"> <li>• Ports 1 to 64 support 40/100-Gigabit speeds.</li> <li>• Ports 49-64 support MACsec encryption.</li> <li>• Ports 65-64and66 support 1/10 Gigabit speeds.</li> </ul> |
| N9K-C9364C-H1      | 2-RU fixed-port switch with 64 100G SFP28 ports.   |
| N9K-C9332C         | 1-RU fixed switch with 32 40/100-Gigabit QSFP28 ports and 2 fixed 1/10-Gigabit SFP+ ports.   |
| N9K-C9332D-GX2B    | 1-Rack-unit (1-RU) spine switch with 32p 400/100-Gbps QSFP-DD ports and 2p 1/10 SFP+ ports.  |
| N9K-C9348D-GX2A    | 48p 40/100/400-Gigabit QSFP-DD ports and 2p 1/10G/10G SFP+ ports   |
| N9K-C9364D-GX2A    | 64p 400/100-Gigabit QSFP-DD ports and 2p 1/10 SFP+ ports   |
| N9K-C93180YC-FX3   | 48 1/10/25 Gigabit Ethernet SFP28 ports (ports 1-48)<br>6 10/25/40/50/100-Gigabit QSFP28 ports (ports 49-54)   |
| N9K-C93180YC-FX3S  | 48 1/10/25 Gigabit Ethernet SFP28 ports (ports 1-48)<br>6 10/25/40/50/100-Gigabit QSFP28 ports (ports 49-54)   |
| N9K-C9336C-FX2-E   | 1-RU switch with 36 40-/100-Gb QSFP28 ports  |
| N9K-C9336C-FX2     | 1-RU switch with 36 40-/100-Gb Ethernet QSFP28 ports   |
| N9K-C93360YC-FX2   | 2-RU switch with 96 10-/25-Gigabit SFP28 ports and 12 40/100-Gigabit QSFP28 ports  |
| N9K-C93240YC-FX2   | 1.2-RU Top-of-Rack switch with 48 10-/25-Gigabit SFP28 fiber ports and 12 40-/100-Gigabit Ethernet QSFP28 ports.   |
| N9K-C93216TC-FX2   | 2-RU switch with 96 100M/1G/10G RJ-45 ports, 12 40/100-Gigabit QSFP28 ports, 2 management ports (one RJ-45 and one SFP port), 1 console port, and 1 USB port.  |
| N9K-C93180YC-FX    | 1-RU Top-of-Rack switch with 10-/25-/32-Gigabit Ethernet/FC ports and 6 40-/100-Gigabit QSFP28 ports. You can configure the 48 ports as 1/10/25-Gigabit Ethernet ports or as FCoE ports or as 8-/16-/32-Gigabit Fibre Channel ports.   |
| N9K-C93180YC-FX-24 | 1 RU 24 1/10/25-Gigabit Ethernet SFP28 front panel ports and 6 fixed 40/100-Gigabit Ethernet QSFP28 spine-facing ports. The SFP28 ports support 1-, 10-, and 25-Gigabit Ethernet connections and 8-, 16-, and 32-Gigabit Fibre Channel connections.  |
| N9K-C93108TC-FX    | 1-RU Top-of-Rack switch with 48 100M/1/10GBASE-T (copper) ports and 6 40-/100-Gigabit QSFP28 ports   |
| N9K-C93108TC-FX-24 | 1 RU 24 1/10GBASE-T (copper) front panel ports and 6 fixed 40/100-Gigabit Ethernet QSFP28 spine-facing ports.  |
| N9K-C93108TC-FX3P  | 1-RU fixed-port switch with 48 100M/1/2.5/5/10GBASE-T ports and 6 40-/100-Gigabit QSFP28 ports   |

| Cisco Nexus Switch           | Description   |
|------------------------------|---|
| N9K-C9348GC-FXP <sup>1</sup> | Cisco Nexus 9300 with 48p 100M/1 G, 4p 10/25 G SFP+ and 2p 100 G QSFP |

**Table 19.** Cisco Nexus 9200 and 9300 Fans and Fan Trays

| Product ID        | Description  | Quantity | Cisco Nexus Switches                |
|-------------------|--|----------|-------------------------------------|
| NXA-SFAN-30CFM-PE | Fan module with port-side exhaust airflow (blue coloring)    | 3        | 9348GC-FX3                          |
| NXA-SFAN-30CFM-PI | Fan module with port-side intake airflow (burgundy coloring) | 3        | 9348GC-FX3                          |
| NXA-SFAN-30CFM-PE | Fan module with port-side exhaust airflow (blue coloring)    | 3        | 9348GC-FX3PH                        |
| NXA-SFAN-30CFM-PI | Fan module with port-side intake airflow (burgundy coloring) | 3        | 9348GC-FX3PH                        |
| NXA-SFAN-35CFM-PI | Fan module with port-side intake airflow (burgundy coloring) | 6        | 9332D-H2R                           |
|                   |  | 5        | 93400LD-H1                          |
|                   |  | 4        | 93108TC-FX3                         |
| NXA-SFAN-35CFM-PE | Fan module with port-side exhaust airflow (blue coloring)    | 6        | 9332D-GX2B                          |
|                   |  | 5        | 93400LD-H1                          |
|                   |  | 4        | 93108TC-FX3                         |
| NXA-SFAN-35CFM-PI | Fan module with port-side intake airflow (burgundy coloring) | 6        | 9332D-GX2B                          |
| NXA-FAN-160CFM-PE | Fan module with port-side exhaust airflow (blue coloring)    | 3        | 9364C <sup>[2]</sup><br>93360YC-FX2 |

<sup>1</sup> For N9K-C9348GC-FXP the PSU SPROM is not readable when the PSU is not connected. The model displays as "UNKNOWN" and status of the module displays as "shutdown."

<sup>2</sup> For specific fan speeds see the Overview section of the Hardware Installation Guide.



| Product ID       | Description   | Quantity    | Cisco Nexus Switches  |
|------------------|---|-------------|---|
| NXA-FAN-35CFM-PI | Fan module with port-side intake airflow (burgundy coloring)  | 4           | 92300YC <a href="#">[1]</a><br>9332C <a href="#">[1]</a><br>93180YC-FX3S <a href="#">[2]</a><br>93180YC-FX3<br>93108TC-FX3P<br>93180YC-FX3H |
|                  |   | 6           | 9316D-GX<br>93600CD-GX  |
|                  | 6   | 9336C-FX2-E |   |
|                  | Fan module with port-side exhaust airflow (blue coloring)     |             |   |
| NXA-FAN-65CFM-PE | Fan module with port-side exhaust airflow (blue coloring)     | 3           | 93240YC-FX2 <a href="#">[1]</a><br>9336C-FX2 <a href="#">[1]</a>  |
| NXA-FAN-65CFM-PI | Fan module with port-side exhaust airflow (burgundy coloring) | 3           | 93240YC-FX2<br>9336C-FX2 <a href="#">[1]</a>  |

**Table 20.** Cisco Nexus 9200 and 9300 Power Supplies

| Product ID       | Description  | Quantity | Cisco Nexus Switches       |
|------------------|--|----------|----------------------------|
| NXA-PDC-715W-PI  | 715-W DC power supply with port-side intake airflow (blue coloring)      | 2        | 93108TC-FX3P               |
| NXA-PDC-440W-PE  | 440-W DC power supply with port-side exhaust airflow (blue coloring)     | 2        | 9348GC-FX3<br>9348GC-FX3PH |
| NXA-PDC-440W-PI  | 440-W DC power supply with port-side intake airflow (burgundy coloring)  | 2        | 9348GC-FX3<br>9348GC-FX3PH |
| NXA-PHV-350W-PE  | 350-W AC power supply with port-side exhaust airflow (blue coloring)     | 2        | 9348GC-FX3<br>9348GC-FX3PH |
| NXA-PHV-350W-PI  | 350-W AC power supply with port-side intake airflow (burgundy coloring)  | 2        | 9348GC-FX3<br>9348GC-FX3PH |
| NXA-PAC-350W-PE2 | 350-W AC power supply with port-side exhaust airflow (blue coloring)     | 2        | 9348GC-FX3<br>9348GC-FX3PH |
| NXA-PAC-350W-PI2 | 350-W AC power supply with port-side intake airflow (burgundy coloring)  | 2        | 9348GC-FX3<br>9348GC-FX3PH |
| NXA-PAC-1900W-PE | 1900-W AC power supply with port-side exhaust airflow (blue coloring)    | 2        | 9348GC-FX3<br>9348GC-FX3PH |
| NXA-PAC-1900W-PI | 1900-W AC power supply with port-side intake airflow (burgundy coloring) | 2        | 9348GC-FX3<br>9348GC-FX3PH |

| Product ID        | Description  | Quantity | Cisco Nexus Switches   |
|-------------------|--|----------|--|
| NXA-PHV-2KW-PI    | 2000-W HVDC power supply with port-side intake airflow (burgundy coloring) | 2        | 9332D-H2R<br>93400LD-H1  |
| NXA-PAC-1500W-PE  | 1500-W AC power supply with port-side exhaust airflow (blue coloring)      | 2        | 9332D-GX2B   |
| NXA-PAC-1500W-PI  | 1500-W AC power supply with port-side intake airflow (burgundy coloring)   | 2        | 9332D-GX2B   |
| NXA-PAC-500W-PE   | 500-W AC power supply with port-side exhaust airflow (blue coloring)       | 2        | 93180YC-FX<br>93108TC-FX3  |
| NXA-PAC-500W-PI   | 500-W AC power supply with port-side intake airflow (burgundy coloring)    | 2        | 93180YC-FX<br>93108TC-FX3  |
| NXA-PAC-650W-PE   | 650-W AC power supply with port-side exhaust (blue coloring)               | 2        | 92300YC<br>93180YC-FX3S<br>93180YC-FX3<br>93180YC-FX3H                     |
| NXA-PAC-650W-PI   | 650-W AC power supply with port-side intake (burgundy coloring)            | 2        | 92300YC<br>93180YC-FX3S<br>93180YC-FX3<br>93180YC-FX3H                     |
| NXA-PAC-750W-PE   | 750-W AC power supply with port-side exhaust airflow (blue coloring) 1     | 2        | 9336C-FX2<br>9336C-FX2-E<br>9332C<br>93240YC-FX2                           |
| NXA-PAC-750W-PI   | 750-W AC power supply with port-side intake airflow (burgundy coloring) 1  | 2        | 9336C-FX2<br>9336C-FX2-E<br>9332C<br>93240YC-FX2                           |
| NXA-PAC-1100W-PE2 | 1100-W AC power supply with port-side exhaust airflow (blue coloring)      | 2        | 93240YC-FX2<br>9332C<br>9316D-GX<br>9336C-FX2<br>9336C-FX2-E<br>93600CD-GX |
| NXA-PAC-1100W-PI2 | 1100-W AC power supply with port-side intake airflow (burgundy coloring)   | 2        | 93240YC-FX2<br>9332C<br>9316D-GX<br>9336C-FX2<br>9336C-FX2-E<br>93600CD-GX |
| NXA-PAC-1100W-PI  | Cisco Nexus 9000 PoE 1100W AC PS, port-side intake                         | 2        | 93108TC-FX3P   |
| NXA-PAC-1100W-PE  | Cisco Nexus 9000 PoE 1100W AC PS, port-side exhaust                        | 2        | 93108TC-FX3P   |
| NXA-PAC-1900W-PI  | Cisco Nexus 9000 PoE 1900W AC PS, port-side intake                         | 2        | 93108TC-FX3P   |

| Product ID       | Description   | Quantity | Cisco Nexus Switches   |
|------------------|---|----------|--|
| NXA-PAC-1200W-PE | 1200-W AC power supply with port-side exhaust airflow (blue coloring)           | 2        | 93360YC-FX2<br>9364C   |
| NXA-PAC-1200W-PI | 1200-W AC power supply with port-side intake airflow (burgundy coloring)        | 2        | 93360YC-FX2<br>9364C   |
| NXA-PAC-1400W-PE | 1400-W AC power supply with port-side exhaust airflow (blue coloring)           | 2        | 93400LD-H1   |
| NXA-PAC-1400W-PI | 1400-W AC power supply with port-side intake airflow (burgundy coloring)        | 2        | 93400LD-H1   |
| N9K-PUV-1200W    | 1200-W Universal AC/DC power supply with bidirectional airflow (white coloring) | 2        | 92300YC<br>93108TC-FX<br>93360YC-FX2<br>93180YC-FX3S<br>93180YC-FX<br>9364C<br>93108TC-FX3 |
| NXA-PDC-930W-PE  | 930-W DC power supply with port-side exhaust airflow (blue coloring)            | 2        | 93360YC-FX2<br>93180YC-FX3S<br>93180YC-FX<br>9364C<br>93180YC-FX3H<br>93108TC-FX3          |
| NXA-PDC-930W-PI  | 930-W DC power supply with port-side intake airflow (burgundy coloring)         | 2        | 93360YC-FX2<br>93180YC-FX3S<br>93180YC-FX<br>9364C<br>93180YC-FX3H<br>93108TC-FX3          |
| NXA-PDC-1100W-PE | 1100-W DC power supply with port-side exhaust airflow (blue coloring)           | 2        | 93240YC-FX2<br>93600CD-GX<br>9316D-GX<br>9332C<br>9336C-FX2<br>9336C-FX2-E                 |
| NXA-PDC-1100W-PI | 1100-W DC power supply with port-side intake airflow (burgundy coloring)        | 2        | 93240YC-FX2<br>93600CD-GX<br>9316D-GX<br>9332C<br>9336C-FX2<br>9336C-FX2-E                 |
| NXA-PHV-1100W-PE | 1100-W AC power supply with port-side exhaust airflow (blue coloring)           | 2        | 93240YC-FX2<br>9336C-FX2   |
| NXA-PHV-1100W-PI | 1100-W AC power supply with port-side intake airflow (burgundy coloring)        | 2        | 93240YC-FX2<br>9336C-FX2   |
| NXA-PAC-2KW-PE   | 2000-W AC power supply with port-side exhaust airflow (blue coloring)           | 2        | 9364C-GX   |

| Product ID       | Description  | Quantity | Cisco Nexus Switches                |
|------------------|--|----------|-------------------------------------|
| NXA-PAC-2KW-PI   | 2000-W AC power supply with port-side intake airflow (burgundy coloring) | 2        | 9364C-GX<br>9332D-H2R               |
| NXA-PDC-2KW-PE   | 2000-W DC power supply with port-side exhaust airflow (blue coloring)    | 2        | 9364C-GX<br>93400LD-H1              |
| NXA-PDC-2KW-PI   | 2000-W DC power supply with port-side intake airflow (burgundy coloring) | 2        | 9364C-GX<br>9332D-H2R<br>93400LD-H1 |
| N2200-PAC-400W   | 400-W AC power supply with port-side exhaust airflow (blue coloring)     | 2        | 92348GC-X                           |
| N2200-PAC-400W-B | 400-W AC power supply with port-side intake airflow (burgundy coloring)  | 2        | 92348GC-X                           |
| N2200-PDC-350W-B | 350-W DC power supply with port-side intake airflow                      | 2        | 92348GC-X                           |
| N2200-PDC-400W   | 400-W DC power supply with port-side exhaust airflow (blue coloring)     | 2        | 92348GC-X                           |

## Compatibility information

Fabric Module and Line Card compatibility details are listed below:

**Table 21.** Cisco Nexus 9500 Cloud Scale Line Cards

| Product ID      | N9K-C9504-FM-G             | N9K-C9508-FM-G             | N9K-C9504-FM-E             | N9K-C9508-FM-E             | N9K-C9508-FM-E2            | N9K-C9516-FM-E2            |
|-----------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| N9K-X9716D-GX   | 4                          | 4                          | No                         | No                         | No                         | No                         |
| N9K-X9736C-FX   | 5                          | 5                          | 5                          | 5                          | 5                          | 5                          |
| N9K-X97160YC-EX | 4                          | 4                          | 4                          | 4                          | 4                          | 4                          |
| N9K-X9788TC-FX  | 4                          | 4                          | 4                          | 4                          | 4                          | 4                          |
| N9K-X9732C-EX   | 4                          | 4                          | 4                          | 4                          | 4                          | 4                          |
| N9K-X9732C-FX   | 4<br>5 (n+1<br>redundancy) |

**Table 22.** Cisco Nexus 9500 R-Series Line Cards

| Product ID    | N9K-C9504-FM-R | N9K-C9508-FM-R |
|---------------|----------------|----------------|
| N9K-X9636C-RX | 6              | 6              |

| Product ID     | N9K-C9504-FM-R          | N9K-C9508-FM-R          |
|----------------|-------------------------|-------------------------|
| N9K-X9636Q-R   | 4<br>6 (n+2 redundancy) | 4<br>6 (n+2 redundancy) |
| N9K-X9636C-R   | 5<br>6 (n+1 redundancy) | 5<br>6 (n+1 redundancy) |
| N9K-X96136YC-R | 6                       | 6                       |

**Table 23.** Cisco Nexus 9500 R2-Series Line Cards

| Product ID    | N9K-C9508-FM-R2 |
|---------------|-----------------|
| N9K-X9624D-R2 | 6               |

## Optics

For information about transceivers and cables supported on a switch, see the [Transceiver Module \(TMG\) Compatibility Matrix](#). For the transceiver specifications and installation information, see the [Install and Upgrade Guides](#).

## Cisco Nexus Dashboard Insights for Data Center

Cisco NX-OS Release 10.5(5)M supports the Cisco Nexus Dashboard Insights on Cisco Nexus 9300-FX, 9300-FX2, 9300-FX3, 9300-GX, 9300-GX2, 9400, and 9800 platform switches and 9500 platform switches with -EX/FX/GX Line Cards. See the [Cisco Nexus Insights documentation](#).

## Upgrade and downgrade

To perform a software upgrade or downgrade, follow the instructions in the Cisco Nexus 9000 Series NX-OS Software Upgrade and Downgrade Guide, Release 10.5(x). For information about an In Service Software Upgrade (ISSU), see the [Cisco NX-OS ISSU Support Matrix](#).

## Related content

| Document Title   | Description  |
|--|--|
| <a href="#">Cisco Nexus 9000 Series Switches</a>   | Cisco Nexus 9000 Series Switches documentation                                   |
| <a href="#">Cisco NX-OS Software Strategy and Lifecycle Guide</a>                            | Cisco NX-OS Software Release and Image-naming Convention                         |
| <a href="#">Cisco Nexus 3000 and 9000 Series NXAPI REST SDK User Guide and API Reference</a> | Cisco Nexus 3000 and 9000 Series NX-NX-API REST SDK User Guide and API Reference |

| Document Title  | Description   |
|---|---|
| <ul style="list-style-type: none"> <li><a href="#">Cisco NX-OS Licensing Guide</a></li> <li><a href="#">Cisco Nexus 9000 and 3000 Series NX-OS Switch License Navigator</a></li> <li><a href="#">Cisco Nexus Smart Licensing Using Policy User Guide</a></li> </ul> | Licensing Information<br><br><b>Note:</b> When you downgrade from Cisco NX-OS Release 10.5(5)M to an earlier release, the features that use the ACI+NX-OS Essentials, Advantage, and add-on licenses or the Hardware Streaming Telemetry license continue to work in honor mode in the downgraded version. In addition, the output of the show license usage command continues to include entries for these unsupported licenses. |
| <a href="#">Cisco Nexus 9000 Series NX-OS Software Upgrade and Downgrade Guide</a>  | Cisco Nexus 9000 Series Software Upgrade and Downgrade Guide, Release 10.5(x)   |
| <a href="#">Cisco Nexus 9000 Series FPGA/EPLD Upgrade Release Notes</a>   | Cisco Nexus 9000 Series FPGA/EPLD Upgrade Release Notes, Release 10.5(5)M   |
| <a href="https://cisco.github.io/cisco-mibs/supportlists/nexus9000/Nexus9000MIBSupportList.html">https://cisco.github.io/cisco-mibs/supportlists/nexus9000/Nexus9000MIBSupportList.html</a>   | Cisco NX-OS Supported MIBs  |
| <a href="#">Cisco Nexus 9000 Series Switch FEX Support Matrix</a>   | Supported FEX modules   |
| <a href="#">Cisco Nexus 9000 Series Hardware Installation Guides</a>  | Cisco Nexus 9000 Series Hardware Installation Guides  |

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