

# Cisco Nexus 9000 Series NX-OS Release Notes

Release 10.4(4)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 10.4(4)M for use on the Cisco Nexus 9000 Series switches.

Date	Description
October 19, 2024	Release 10.4(4)M became available.

## Software Features

There are no new software features introduced in Cisco NX-OS Release 10.4(4)M.

## Hardware Features

The Cisco Nexus 92348GC-FX3 switch (N9K-C92348GC-FX3) is a 1-RU fixed-port, L2/L3 switch, designed for deployment in data centers. This switch has 48x 100M/1G BASE-T downlink ports, 4x 10/25 Gbps SFP28+ uplink ports, 2x 40/100 Gbps QSFP28+ uplink ports, and will deliver 696 Gbps of total bandwidth.

This switch includes these user-replaceable components.

- Fan modules (3) with the following airflow choices.
  - Port-side intake airflow with burgundy coloring (NXA-SFAN-30CFM-PI)
  - Port-side exhaust airflow with blue coloring (NXA-SFAN-30CFM-PE)
- Power supply modules (two—one for operations and one for redundancy [1+1]) with these choices (a mix of AC and DC power sources is supported. However, do not mix airflow directions):
  - 350-W AC power supply with port-side intake airflow (burgundy coloring) (NXA-PAC-350W-PI2)
  - 350-W AC power supply with port-side exhaust airflow (blue coloring) (NXA-PAC-350W-PE2)
  - 350-W PHV power supply with port-side intake airflow (burgundy coloring) (NXA-PHV-350W-PI)
  - 350-W PHV power supply with port-side exhaust airflow (blue coloring) (NXA-PHV-350W-PE)
  - 440-W DC power supply with port-side intake airflow (burgundy coloring) (NXA-PDC-440W-PI)
  - 440-W DC power supply with port-side exhaust airflow (blue coloring) (NXA-PDC-440W-PE)

For details on Cisco Nexus 92348GC-FX3 switch, see the [Cisco Nexus NX-OS Mode Switch Hardware Installation Guide](#).

## Unsupported Features on N9K-C92348GC-FX3

The following features are not supported on N9K-C92348GC-FX3 in Cisco NX-OS Release 10.4(4)M.

- MPLS
- VXLAN
- Analytics
- container-tracker
- Edge Virtual Bridge (evb)
- hardware-telemetry
- macsec
- nbm
- netflow
- ngoam
- nv overlay
- ptp
- security-group
- vmtracker
- vn-segment-vlan-based
- fcoe
- fcoe-npv

## Release Image

In Cisco NX-OS Release 10.4(4)M, the following two 64-bit images are supported:

- The 64-bit Cisco NX-OS image filename with “nxos64-cs” as the prefix (for example, nxos64-cs.10.4.4.M.bin) is supported on all Cisco Nexus 9000 series switches except Cisco Nexus 9500 -R and -R2 switches and cards.
- The 64-bit Cisco NX-OS image filename with “nxos64-msll” as the prefix (for example, nxos64-msll.10.4.4.M.bin) is supported on Cisco Nexus 9000 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.

Bug ID	Headline
<a href="#">CSCwj58944</a>	IPV6 RNH is not updated after ipv6 neighbors are cleared
<a href="#">CSCwk49611</a>	Delayed linkup seen with 100G-SR4 on BV ports

Bug ID	Headline
<a href="#">CSCwk49982</a>	NLB Source traffic failed to forward and gets flooded within nlb vlan
<a href="#">CSCwk76266</a>	IGMP proxy reports not generated for L2TRM
<a href="#">CSCwm05315</a>	reload of vPC peer causing transient loop of v6 traffic leading to incorrect Mac learn on VPC port
<a href="#">CSCwm40478</a>	N9K-X9636C-RX: Traffic Punt with default route + uRPF
<a href="#">CSCwm49373</a>	EVPN prefix fails to advertise when dup paths with same GWIPs are shared between RR via iBGP
<a href="#">CSCwm53422</a>	VSH crashes when running show tech port manager
<a href="#">CSCwm55263</a>	queue-limit dynamic 0 drops packets with minimal traffic on interface
<a href="#">CSCwm59420</a>	VLAN Tag on GRE tunneled traffic is changed to Native VLAN for broadcast traffic on N9K
<a href="#">CSCwm63977</a>	Unable to ping SVI with forwarding mode set to Warp
<a href="#">CSCwm72527</a>	N9K-C93216TC-FX2:Uplink ports not link up with QSFP-H40G-CU3M

## Resolved Issues

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

Bug ID	Headline
<a href="#">CSCvz47575</a>	Traceback TACACS-3-L3VM_LIBINIT Seen After AAA Failures
<a href="#">CSCvz72834</a>	Cisco NX-OS Software DHCPv6 Relay Agent Denial of Service Vulnerability
<a href="#">CSCwvc19270</a>	N93108TC-FX3P in FEX mode displays incomplete port speed capabilities
<a href="#">CSCwd27446</a>	DME CC for interfaces is failing resulting in telemetry data collection errors
<a href="#">CSCwh18936</a>	Add Syslog for Incorrect Partitioning Detected
<a href="#">CSCwh77779</a>	Cisco NX-OS Software Python Parser Escape Vulnerability
<a href="#">CSCwh77780</a>	Cisco NX-OS Software Python Parser Escape Vulnerability
<a href="#">CSCwh77783</a>	Cisco NX-OS Bash Privilege Escalation Vulnerability
<a href="#">CSCwh90029</a>	Error fetching entries from hardware -- forwarding I2 table utilization instance all
<a href="#">CSCwi06810</a>	MAC address table doesn't change via GARP during MAC move
<a href="#">CSCwi61233</a>	High Info interrupts trigger throttle logic resulting DMA starvation and CPU busy
<a href="#">CSCwi71532</a>	laser shuts down even break link is enabled post peer link shutdown
<a href="#">CSCwi85849</a>	During PTP sync process, the switch updates the clock identity field but keeps sending unsynced time

Bug ID	Headline
<a href="#">CSCwi89071</a>	Unable to see RBAC policy regex configuration in the running config.
<a href="#">CSCwi08246</a>	NFP process reloaded unexpectedly after processing a config flow
<a href="#">CSCwi24274</a>	N9K BGP route metric in RIB does not update after MED change when using Multipath
<a href="#">CSCwi27559</a>	9.3(13): DME cc Failure seen for nxapi use-vrf management on FX3
<a href="#">CSCwi33002</a>	N9K - Memory leak in tahud process after EVPN uplink flap on FX3/GX/GX2/HX switch
<a href="#">CSCwi33847</a>	Configuring Auto Neg on 25G 2.5M turns off fec, expected fec to be in fc-fec
<a href="#">CSCwi34504</a>	" link debounce link-up time xx" config disappear after performing conf replace
<a href="#">CSCwi34531</a>	Nexus 9k Switch Reloads Due To TAHUSD process
<a href="#">CSCwi37244</a>	VXLAN - Traffic to IP x.x.137.2 is wrongly intercepted by OAM Sup ACL
<a href="#">CSCwi37487</a>	problem in sub-interface creation when service-reflect interface config for mvrf nat
<a href="#">CSCwi42402</a>	SR MPLS: ipfib process core after interface and router ISIS flap
<a href="#">CSCwi42765</a>	10.4(3)F: Mcast traffic drop after running clear ip mroute * command on MVPN handoff device
<a href="#">CSCwi43716</a>	10.4(3): NGOAM is getting service not responding error when peer nodes are not older version
<a href="#">CSCwi45146</a>	SSH login triggers TACACS "temporary failure in name resolution" after upgrade
<a href="#">CSCwi49714</a>	N9K: Traffic redirected to Ethernet1/1 if PACL has redirect option to a port missing XCVR
<a href="#">CSCwi50127</a>	NXOS PSU shows shutdown though PSU is working
<a href="#">CSCwi50490</a>	VXLAN EVPN GX - OV Table mis-programming causes BUM traffic to fail after VPC peer reload
<a href="#">CSCwi50611</a>	N9k SR mNAT traffic may leave interface without NAT during an OIF change
<a href="#">CSCwi53632</a>	feature hardware-telemetry causing Mac Moves: L2FM-4-L2FM_MAC_MOVE
<a href="#">CSCwi56953</a>	10.5(1): in Underlay, explicit weight assignment to all available paths does not work
<a href="#">CSCwi57371</a>	N9K VXLAN: A short loop occurs at the moment the peer-link is up after VPC peer restart
<a href="#">CSCwi59760</a>	Yang Model get_diff " source" and " target" have Incorrect Information
<a href="#">CSCwi65063</a>	Login with " admin" user with incorrect password allowed when " none" aaa authentication is configured
<a href="#">CSCwi67317</a>	Multicast traffic dropping at Nexus 9500 FM-G due to ELAM VLAN_XLATE_MISS
<a href="#">CSCwi68588</a>	9332-GX2B: DoM not supported error with 3rd party 100G AOC
<a href="#">CSCwi69012</a>	DHCP Discover packets are being dropped with custom COPP policy on a purely L2 Nexus 9k
<a href="#">CSCwi69659</a>	One way CDP neighborhood seen between Nexus 9500 (L3) & Catalyst 3850(L2) when VLAN 1 is tagged.

Bug ID	Headline
<a href="#">CSCwj70267</a>	N9K: ARP issue with Fabric Peering in VxLAN EVPN VPC set up
<a href="#">CSCwj73810</a>	While adding IP unnumbered interface using Netconfic, an error generate
<a href="#">CSCwj77571</a>	400G DR4 Finisar and Finisar+ on Nexus 9000 shows incorrect `show int transceiver` detail outputs
<a href="#">CSCwj78936</a>	Config-sync fails to import running-config into Switch-Profile
<a href="#">CSCwj79046</a>	N9K:duplicate " no errdisable detect cause acl-exception" in startup-config
<a href="#">CSCwj82709</a>	" no mac address-table loop-detect nve port-down" cannot be configure on NXOS 10.2.5 or 10.4.3
<a href="#">CSCwj83432</a>	[N9K] QSFP-100G-ZR4: Same value with Rx Power "High alarm" and "High warning" threshold
<a href="#">CSCwj84211</a>	N9K-C9348GC-FXP - Ingress drops all packets with Bad Preamble tag
<a href="#">CSCwj88820</a>	Nexus 93180YC-FX3 : L2 IGMP joins are dropped when L3 GRE tunnel is configured
<a href="#">CSCwj88901</a>	Bad config applied to previous context if next config context contains syntax error in config file
<a href="#">CSCwj89859</a>	N9K PBR IPv4 ACEs of icam will count without any PBR configuration.
<a href="#">CSCwj89920</a>	Adding ITU channel config prevents port-channel creation on N9K switch.
<a href="#">CSCwj89973</a>	N9K NX-OS 10.4(3) vman crash after upgrade, due to third-party transceiver being inserted
<a href="#">CSCwj90902</a>	Telemetry suddenly stops working due to memory leak
<a href="#">CSCwj92155</a>	Not able to remove the PIM RP-address config
<a href="#">CSCwj95850</a>	N9K-C9348GC-FXP - Ingress drops all packets with Bad Preamble tag
<a href="#">CSCwk02394</a>	SSH session/console pause indefinitely during configuring netflow
<a href="#">CSCwk02635</a>	N9300 FHR may fail to create SG state for one of the sources sending traffic to same group
<a href="#">CSCwk03048</a>	N9k TCAM Carving for e-racl must not be allowed for mpls extended ecmp
<a href="#">CSCwk03361</a>	Unable to create a TACACS user due to the directory /var full with a power supply debug logfile.
<a href="#">CSCwk04005</a>	VxLan: vPC fabric peering flap after time change
<a href="#">CSCwk04520</a>	n9k: " DCBX No ACK in 100 PDU" seen after upgrade from 9.3.x to 10.3.4a
<a href="#">CSCwk07305</a>	Packets with MPLS-SR label dropped on P routers
<a href="#">CSCwk11030</a>	Storm control gets triggered when unplug/replug the cable of a port
<a href="#">CSCwk12313</a>	Nexus generates VPC PKA packet with source IP not present on device
<a href="#">CSCwk15087</a>	MST priority value get removed after changing vlan in a instance.
<a href="#">CSCwk27865</a>	Archive feature doesn't work when \$ is specified within password

Bug ID	Headline
<a href="#">CSCwk29697</a>	KLM_pss installation delay seen (potentially leading to boot failure)
<a href="#">CSCwk30154</a>	Stats for ACE matching different ether type not updated in MAC ACL
<a href="#">CSCwk32265</a>	nxos/N9K-X9400-16W: Port 15 and 16 do not correctly forwarding traffic after reload
<a href="#">CSCwk34847</a>	Nexus 9000 crash due to "tahUSD" process crash @ tah_sdk_he_aclqos_hex_print
<a href="#">CSCwk35857</a>	Traffic blackholed after module or chassis reload EOR R linecards with custom MAC config
<a href="#">CSCwk36818</a>	N9K - Memory leak in TAHUSD_MTRACK_TYPE_STATS_DMA_HDLR
<a href="#">CSCwk45686</a>	Twamp not working in a server-N9k setup.
<a href="#">CSCwk49219</a>	Type 2 route for RMACs with Next hop set to vIP address is not generated for IPv6 Fabric underlay
<a href="#">CSCwk49778</a>	Getting an error when trying to enable log-neighbor-changes command
<a href="#">CSCwk50423</a>	TLS Client Hello advertises curves not allowed by CC
<a href="#">CSCwk52635</a>	Removing VLAN on one pair causing other pair to suspend all VLANs on port-channel in pvlan trunk
<a href="#">CSCwk56902</a>	Configuring 'udld disable' thru configure-replace it returns an empty patch and nothing configuring
<a href="#">CSCwk59961</a>	MMODE config failure with large range of interface configs
<a href="#">CSCwk61156</a>	QinQ traffic disrupted after removing "switchport trunk allow-multi-tag" command
<a href="#">CSCwk61235</a>	Critical CVE in component openssh. Upgrade to latest version.
<a href="#">CSCwk64527</a>	10.5(1): Permission denied error seen on show interface   json on network-operator other than admin
<a href="#">CSCwk69444</a>	Rapid memory leak in securityd and component(libpython3.8.so.1.0)
<a href="#">CSCwk70281</a>	NXOS: port-security mac-address config accepted but not applied
<a href="#">CSCwk72984</a>	10.5(1): N9K-X9400-8D: 4x100g DR4 HBO/SBO, all 4 lanes are not up on LEM reload/power cycle
<a href="#">CSCwk73210</a>	private-vlans suspended on vpc primary side after switch bootup
<a href="#">CSCwk74555</a>	host-proxy configurations doesnt work properly after trigger of pim restart
<a href="#">CSCwk76333</a>	N9K traffic interrupt due to delayed phy port down when admin shutdown E1-48 PO member port
<a href="#">CSCwk77003</a>	N9K delay forwarding of IGMP proxy v3 report when " ip igmp snooping v3-report-suppression" enabled
<a href="#">CSCwk78700</a>	BGP does not pass Tunnel Encapsulation attribute to Cloudsec from the best path in BRIB
<a href="#">CSCwk82500</a>	Nexus SNMP Transceiver Polling causes SNMPD process crash
<a href="#">CSCwk84750</a>	Memory Leak on snmpd process

Bug ID	Headline
<a href="#">CSCwk88760</a>	static igmp/mld snooping not work when flexlink UP/Standby state changed
<a href="#">CSCwk99030</a>	GX/GX2 platforms leak ucast PIM register messages to s/w in switching path
<a href="#">CSCwm00544</a>	Nexus N9K-X9716D-GX Failed 100G to 400G Conversion
<a href="#">CSCwm04251</a>	Parent Missing for OID 1.3.6.1.2.1.47.1.1.1.1.4 in N9K-C93600CD-GX
<a href="#">CSCwm05051</a>	QinQ inner-vlan stripped egress with system dot1q-tunnel transit
<a href="#">CSCwm05197</a>	DHCP packet not able to traverse a n9k with ip address dhcp on a svi
<a href="#">CSCwm05521</a>	TAHUSD crash with "show" commands on BearValley ports
<a href="#">CSCwm06182</a>	QDD-2X100-SR4-S - Breakout interfaces lanes shutdown when sibling interfaces are shutdown.
<a href="#">CSCwm06460</a>	Unable to remove "fabric forwarding mode anycast-gateway" from a L3VNI
<a href="#">CSCwm11106</a>	clean up traces in "show hardware internal tah event-history xcvr <port>"
<a href="#">CSCwm11587</a>	VPC fabric peer sends TCP packets with DSCP value 0
<a href="#">CSCwm11668</a>	Running "show logging onboard card-boot-history" and similar commands on FX3 in fex mode crashes FEX
<a href="#">CSCwm12994</a>	'clear hardware internal forwarding adjacency statistics default-route' command throws error
<a href="#">CSCwm13904</a>	Unable to install nxapi certificate
<a href="#">CSCwm24449</a>	Missprogramming Infra-VLAN is redirecting traffic to CPU on Nexus 9K.
<a href="#">CSCwm27313</a>	Multicast traffic gets delayed to forward upon receiving v3 proxy report
<a href="#">CSCwm29927</a>	NTP configuration with use-vrf management fails with FQDN
<a href="#">CSCwm30659</a>	Twampv6 not working in 10.2(4) release
<a href="#">CSCwm35057</a>	In 9k vpc, remove and readd peer-gateway on both sides results in stale sdk-l2 entry
<a href="#">CSCwm37332</a>	PTP out of sync on a breakout interface
<a href="#">CSCwm39756</a>	L2 multicast traffic is not forwarded to vPC Fabric peer switch.
<a href="#">CSCwm45137</a>	Observing tahusd crash & box reload while running sh tech all post upgrading SSD firmware
<a href="#">CSCwm47657</a>	Nexus responds with timeout instead of "Bad context specified" when SNMP query uses context
<a href="#">CSCwm49356</a>	IGMP flooding through TAP interfaces
<a href="#">CSCwm50407</a>	Host Route learning is failing when vPC peer switch is down for orphan host
<a href="#">CSCwm60250</a>	Memory Leak in I2fm Process Shared Library libutils.so on Nexus 9k Switches
<a href="#">CSCwm68391</a>	N9K crashes with IPFIB Segmentation Fault when processing iBGP Updates with unreachable NHs



Bug ID	Headline
<a href="#">CSCwm72260</a>	Implement recovery mechanism for traffic going over same incoming interface
<a href="#">CSCwm77153</a>	Nexus 9500 - ethport-channel core with ascii reload

## General/Known Issues

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

Bug ID	Description
<a href="#">CSCwi95977</a>	DME CC failure for mutiisite virtual rmac
<a href="#">CSCwi95768</a>	Loopback Ping is not working after enabling MPLS LDP at Interface
<a href="#">CSCwh36396</a>	Third Party 40G SWDM4 transceiver may take between 40-60 secs to link up
<a href="#">CSCwh88451</a>	URIB crashed on urib_chlist_segv_handler after restarting bgp and urib together
<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 pualaner switch
<a href="#">CSCwi24238</a>	With NDFC/auto-config, VPC peer-link stays down on disable 'feature tunnel-encryption'
<a href="#">CSCvt37624</a>	'The BGP instance is not in expected state' after quick bgp unconfig / reconfig with 700K ipv4 pfx
<a href="#">CSCwi22304</a>	TTL is not decremented for decap L3 VPN traffic on N9K-C9800.
<a href="#">CSCwh44244</a>	DME inconsistency in sys/mplsta-[eth1/7/1] object after some CLI sequence

## Device Hardware

The following tables list the Cisco Nexus 9000 Series hardware that Cisco NX-OS Release 10.4(4)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.

Product ID	Description
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
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
NXK-HV6.3KW20A-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-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

Product ID	Description	Minimum	Maximum
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
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

Product ID	Description	Quantity
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

Product ID	Description
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
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	1-RU fixed-port, L2/L3 switch with 48 50G SFP56 ports and 4 400G QSFP-DD uplink ports.
N9K-C93108TC-FX3	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.
N9K-C9332D-H2R	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.
N9K-C9348GC-FX3	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.
N9K-C9348GC-FX3PH	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.
N9K-C93180YC-FX3H	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)
N9K-C9316D-GX	1-RU switch with 16x400/100/40-Gbps ports.
N9K-C9364C-GX	2-RU fixed-port switch with 64 100-Gigabit SFP28 ports.
N9K-C93600CD-GX	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)
N9K-C9364C	<p>2-RU Top-of-Rack switch with 64 40-/100-Gigabit QSFP28 ports and 2 1-/10-Gigabit SFP+ ports.</p> <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 651-64and66 support 1/10 Gigabit speeds.</li> </ul>
N9K-C9364C-H1	2-RU fixed-port switch with 64 100G SFP28 ports.

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

<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."

**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> 93360YC-FX2
NXA-FAN-160CFM-PI	Fan module with port-side intake airflow (burgundy coloring)	3	9364C <sup>[1]</sup> 93360YC-FX2
NXA-FAN-160CFM2-PE	Fan module with port-side exhaust airflow (blue coloring)	4	9364C-GX
NXA-FAN-160CFM2-PI	Fan module with port-side intake airflow (burgundy coloring)	4	9364C-GX
NXA-FAN-30CFM-B	Fan module with port-side intake airflow (burgundy coloring)	3	93108TC-FX <sup>[1]</sup> 93180YC-FX <sup>[1]</sup> 9348GC-FXP <sup>[1]</sup>
NXA-FAN-30CFM-F	Fan module with port-side exhaust airflow (blue coloring)	3	93108TC-FX <sup>[1]</sup> 93180YC-FX <sup>[1]</sup> 9348GC-FXP

<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-PE	Fan module with port-side exhaust airflow (blue coloring)	4	92300YC <sup>[1]</sup> 9332C <sup>[1]</sup> 93180YC-FX3S <sup>[3]</sup> 93180YC-FX3 93108TC-FX3P 93180YC-FX3H
		6	9336C-FX2-E 9316D-GX 93600CD-GX
NXA-FAN-35CFM-PI	Fan module with port-side intake airflow (burgundy coloring)	4	92300YC <sup>[1]</sup> 9332C <sup>[1]</sup> 93180YC-FX3S <sup>[2]</sup> 93180YC-FX3 93108TC-FX3P 93180YC-FX3H
		6	9316D-GX 93600CD-GX
	6	9336C-FX2-E	
NXA-FAN-35CFM-PI	Fan module with port-side exhaust airflow (blue coloring)	4	92300YC <sup>[1]</sup> 9332C <sup>[1]</sup> 93180YC-FX3S <sup>[2]</sup> 93180YC-FX3 93108TC-FX3P 93180YC-FX3H
		6	9316D-GX 93600CD-GX
NXA-FAN-65CFM-PE	Fan module with port-side exhaust airflow (blue coloring)	3	93240YC-FX2 <sup>[1]</sup> 9336C-FX2 <sup>[1]</sup>
NXA-FAN-65CFM-PI	Fan module with port-side exhaust airflow (burgundy coloring)	3	93240YC-FX2 9336C-FX2 <sup>[1]</sup>

**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 9348GC-FX3PH
NXA-PDC-440W-PI	440-W DC power supply with port-side intake airflow (burgundy coloring)	2	9348GC-FX3 9348GC-FX3PH

<sup>3</sup> This switch runs with +1 redundancy mode so that if one fan fails, the switch can sustain operation. But if a second fan fails, this switch is not designed to sustain operation. Hence before waiting for the major threshold temperature to be hit, the switch will power down due to entering the fan policy trigger command.

Product ID	Description	Quantity	Cisco Nexus Switches
NXA-PHV-350W-PE	350-W AC power supply with port-side exhaust airflow (blue coloring)	2	9348GC-FX3 9348GC-FX3PH
NXA-PHV-350W-PI	350-W AC power supply with port-side intake airflow (burgundy coloring)	2	9348GC-FX3 9348GC-FX3PH
NXA-PAC-350W-PE2	350-W AC power supply with port-side exhaust airflow (blue coloring)	2	9348GC-FX3 9348GC-FX3PH
NXA-PAC-350W-PI2	350-W AC power supply with port-side intake airflow (burgundy coloring)	2	9348GC-FX3 9348GC-FX3PH
NXA-PAC-1900W-PE	1900-W AC power supply with port-side exhaust airflow (blue coloring)	2	9348GC-FX3 9348GC-FX3PH
NXA-PAC-1900W-PI	1900-W AC power supply with port-side intake airflow (burgundy coloring)	2	9348GC-FX3 9348GC-FX3PH
NXA-PHV-2KW-PI	2000-W HVDC power supply with port-side intake airflow (burgundy coloring)	2	9332D-H2R 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 93108TC-FX3
NXA-PAC-500W-PI	500-W AC power supply with port-side intake airflow (burgundy coloring)	2	93180YC-FX 93108TC-FX3
NXA-PAC-650W-PE	650-W AC power supply with port-side exhaust (blue coloring)	2	92300YC 93180YC-FX3S 93180YC-FX3 93180YC-FX3H
NXA-PAC-650W-PI	650-W AC power supply with port-side intake (burgundy coloring)	2	92300YC 93180YC-FX3S 93180YC-FX3 93180YC-FX3H
NXA-PAC-750W-PE	750-W AC power supply with port-side exhaust airflow (blue coloring) 1	2	9336C-FX2 9336C-FX2-E 9332C 93240YC-FX2
NXA-PAC-750W-PI	750-W AC power supply with port-side intake airflow (burgundy coloring) 1	2	9336C-FX2 9336C-FX2-E 9332C 93240YC-FX2

Product ID	Description	Quantity	Cisco Nexus Switches
NXA-PAC-1100W-PE2	1100-W AC power supply with port-side exhaust airflow (blue coloring)	2	93240YC-FX2 9332C 9316D-GX 9336C-FX2 9336C-FX2-E 93600CD-GX
NXA-PAC-1100W-PI2	1100-W AC power supply with port-side intake airflow (burgundy coloring)	2	93240YC-FX2 9332C 9316D-GX 9336C-FX2 9336C-FX2-E 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
NXA-PAC-1200W-PE	1200-W AC power supply with port-side exhaust airflow (blue coloring)	2	93360YC-FX2 9364C
NXA-PAC-1200W-PI	1200-W AC power supply with port-side intake airflow (burgundy coloring)	2	93360YC-FX2 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 93108TC-FX 93360YC-FX2 93180YC-FX3S 93180YC-FX 9364C 93108TC-FX3
NXA-PDC-930W-PE	930-W DC power supply with port-side exhaust airflow (blue coloring)	2	93360YC-FX2 93180YC-FX3S 93180YC-FX 9364C 93180YC-FX3H 93108TC-FX3
NXA-PDC-930W-PI	930-W DC power supply with port-side intake airflow (burgundy coloring)	2	93360YC-FX2 93180YC-FX3S 93180YC-FX 9364C 93180YC-FX3H 93108TC-FX3

Product ID	Description	Quantity	Cisco Nexus Switches
NXA-PDC-1100W-PE	1100-W DC power supply with port-side exhaust airflow (blue coloring)	2	93240YC-FX2 93600CD-GX 9316D-GX 9332C 9336C-FX2 9336C-FX2-E
NXA-PDC-1100W-PI	1100-W DC power supply with port-side intake airflow (burgundy coloring)	2	93240YC-FX2 93600CD-GX 9316D-GX 9332C 9336C-FX2 9336C-FX2-E
NXA-PHV-1100W-PE	1100-W AC power supply with port-side exhaust airflow (blue coloring)	2	93240YC-FX2 9336C-FX2
NXA-PHV-1100W-PI	1100-W AC power supply with port-side intake airflow (burgundy coloring)	2	93240YC-FX2 9336C-FX2
NXA-PAC-2KW-PE	2000-W AC power supply with port-side exhaust airflow (blue coloring)	2	9364C-GX
NXA-PAC-2KW-PI	2000-W AC power supply with port-side intake airflow (burgundy coloring)	2	9364C-GX 9332D-H2R
NXA-PDC-2KW-PE	2000-W DC power supply with port-side exhaust airflow (blue coloring)	2	9364C-GX 93400LD-H1
NXA-PDC-2KW-PI	2000-W DC power supply with port-side intake airflow (burgundy coloring)	2	9364C-GX 9332D-H2R 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 5 (n+1 redundancy)	4 5 (n+1 redundancy)	4 5 (n+1 redundancy)	4 5 (n+1 redundancy)	4 5 (n+1 redundancy)	4 5 (n+1 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
N9K-X9636Q-R	4 6 (n+2 redundancy)	4 6 (n+2 redundancy)
N9K-X9636C-R	5 6 (n+1 redundancy)	5 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 10.4(4)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 10.4(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
<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 <b>Note:</b> When you downgrade from Cisco NX-OS Release 10.4(4)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 10.4(x)
<a href="#">Cisco Nexus 9000 Series FPGA/EPLD Upgrade Release Notes</a>	Cisco Nexus 9000 Series FPGA/EPLD Upgrade Release Notes, Release 10.4(4)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

## Documentation Feedback

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