

Switch Interoperability Matrix

This chapter lists the devices tested by Cisco Solution-Interoperability Engineering group (iLAB) for switch interoperability and lists firmware versions and software versions.

This matrix is created based on the configurations that Cisco has successfully tested. If some configuration is not listed in this document, it does not mean that they do not work. It only means that the configuration was not officially tested by Cisco. Cisco TAC supports only the Cisco qualified configurations. For more information, contact your local Cisco representative.

- Cisco MDS 9000 Series Switches and Cisco Nexus 9000/7000/5000 Series Switches, on page 1
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Cisco MDS 9000 Series Switches and Cisco Nexus 9000/7000/5000 Series Switches

The following tables list the Cisco NX-OS software releases that support Cisco MDS 9000 Series switches, Cisco Nexus 9000 Series switches, Cisco Nexus 7000 Series switches, Cisco Nexus 5000 Series switches. For Cisco MDS products, we recommend that customers refer to the Recommended Releases for Cisco MDS 9000 Series Switches document for NX-OS release for both new and existing deployments.

Table 1: Cisco NX-OS Releases Supported on Cisco MDS 9000 Series Switches, Cisco Nexus 9000 Series Switches, Cisco Nexus 7000 Series Switches, and Cisco Nexus 5000 Series Switches

Cisco MDS and Nexus Switches	Cisco NX-OS Releases
Cisco MDS 9706[1], 9710, and 9718[2] switches	9.4(5a), 9.4(5), 9.4(4), 9.4(3b), 9.4(3a), 9.4(3), 9.4(2a), 9.4(1a), 9.4(1)
	9.3(2a), 9.3(2), 9.3(1)
	9.2(2), 9.2(1a), 9.2(1)
	8.5(1)
	8.4(2f), 8.4(2e), 8.4(2d), 8.4(2c), 8.4(2b), 8.4(2a), 8.4(2), 8.4(1a), 8.4(1)
	8.3(2), 8.3(1)
	8.2(2), 8.2(1)
	8.1(1b), 8.1(1a), 8.1(1)
	7.3(1)DY(1), 7.3(0)DY(1), 7.3(1)D1(1), 7.3(0)D1(1)
Cisco MDS 9250i switch	9.4(5a), 9.4(5), 9.4(3b), 9.4(3a), 9.4(3), 9.4(2a), 9.4(1a), 9.4(1)
	9.3(2a), 9.3(2), 9.3(1)
	9.2(1a)
	8.5(1)
	8.4(2f), 8.4(2e), 8.4(2d), 8.4(2c), 8.4(2b), 8.4(2a), 8.4(2), 8.4(1a), 8.4(1)
	8.3(2), 8.3(1)
	8.2(2), 8.2(1)
	8.1(1b), 8.1(1a), 8.1(1)
	7.3(1)DY(1), 7.3(0)DY(1), 7.3(1)D1(1), 7.3(0)D1(1)
Cisco MDS 9220i switch	9.4(5a), 9.4(5), 9.4(3b), 9.4(3a), 9.4(3), 9.4(2a), 9.4(1a), 9.4(1)
	9.3(2a), 9.3(2), 9.3(1)
	9.2(2), 9.2(1a), 9.2(1)
	8.5(1)

Cisco MDS and Nexus Switches	Cisco NX-OS Releases
Cisco MDS 9148S and 9396S[3] switches	9.4(5a), 9.4(5), 9.4(3b), 9.4(3a), 9.4(3), 9.4(2a), 9.4(1a), 9.4(1)
	9.3(2a), 9.3(2), 9.3(1)
	9.2(1a)
	8.5(1)
	8.4(2f), 8.4(2e), 8.4(2d), 8.4(2c), 8.4(2b), 8.4(2a), 8.4(2)
	8.3(2), 8.3(1)
	8.2(2), 8.2(1)
	8.1(1b), 8.1(1a), 8.1(1)
	7.3(1)DY(1), 7.3(0)DY(1), 7.3(1)D1(1), 7.3(0)D1(1)
Cisco MDS 9132T, 9148T[4], and 9396T[5] switches	9.4(5a), 9.4(5), 9.4(3b), 9.4(3a), 9.4(3), 9.4(2a), 9.4(1a), 9.4(1)
	9.3(2a), 9.3(2), 9.3(1)
	9.2(2), 9.2(1a), 9.2(1)
	8.5(1)
	8.4(2f), 8.4(2e), 8.4(2d), 8.4(2c), 8.4(2b), 8.4(2a), 8.4(2), 8.4(1a), 8.4(1)
	8.3(2), 8.3(1)
	8.2(2), 8.2(1)
Cisco MDS 9148v and 9124v switches	9.4(5a), 9.4(5), 9.4(3b), 9.4(3a), 9.4(3), 9.4(2a), 9.4(1a), 9.4(1)
	9.3(2a), 9.3(2), 9.3(1)
Cisco MDS 9396V switch	9.4(5a), 9.4(5), 9.4(3b), 9.4(3a), 9.4(3), 9.4(2a), 9.4(1a), 9.4(1)
Cisco Nexus 9300[6] Series	10.3(3)F, 10.3(2)F, 10.3(1)F
	10.2(4)M, 10.2(3)F, 10.2(2) F, 10.2(1) F
	10.1(2), 10.1(1)
	9.3(12), 9.3(11), 9.3(10), 9.3(9), 9.3(8), 9.3(7), 9.3(6), 9.3(5), 9.3(4), 9.3(3), 9.3(2), 9.3(1)
	9.2(3), 9.2(2), 9.2(1)
	7.0(3)I4(1), 7.0(3)I7(3)

1 Cisco MDS 9706 is supported only from Cisco MDS NX-OS Release 6.2(9) and later releases.
2 Cisco MDS 9718 is supported only from Cisco MDS NX-OS Release 7.3(0)D1(1) and later releases.
3 Cisco MDS 9396S is supported only from Cisco MDS NX-OS Release 6.2(13) and later releases.
4 Cisco MDS 9148T switch is supported only from Cisco MDS NX-OS Release 8.3(1) and later releases.
5 Cisco MDS 9396T switch is supported only from Cisco MDS NX-OS Release 8.3(1) and later releases.
6 The Cisco NPV feature support requires Cisco MDS NX-OS Release 7.0(3)I7(3) and later releases.

Table 2: Cisco NX-OS Releases Supported on Cisco MDS 9000 Series Switches and Cisco Nexus 7000 Series Switches

Cisco MDS and Nexus Switches	Cisco NX-OS Releases
Cisco Nexus 7000 and 7700 Series switches	8.4(8), 8.4(7), 8.4(6a), 8.4(5), 8.4(4a), 8.4(3), 8.4(2), 8.4(1)
	8.3(2), 8.3(1)
	8.2(10), 8.2(9), 8.2(8), 8.2(7), 8.2(6), 8.2(5), 8.2(4), 8.2(3), 8.2(2), 8.2(1)
	8.1(1)
	8.(0)1
	7.3(9)D1(1), 7.3(8)D1(1), 7.3(7)D1(1), 7.3(6)D1(1), 7.3(5)D1(1), 7.3(4)D1(1), 7.3(3)D1(1), 7.3(2)D1(1), 7.3(1)D1(1), 7.3(0)DX(1), 7.3(0)D1(1)
	7.2(2)D1(2), 7.2(2)D1(1), 7.2(2)D1(2), 7.2(2)D1(1), 7.2(1)D1(1), 7.2(0)D1(1)

Table 3: Cisco NX-OS Releases Supported on Cisco MDS 9000 Series Switches and Cisco Nexus 5000 Series Switches

Cisco MDS and Nexus Switches	Cisco NX-OS Releases
Cisco Nexus 5500 and 5600 Series	7.3(13)N1(1), 7.3(12)N1(1), 7.3(11)N1(1), 7.3(10)N1(1), 7.3(9)N1(1), 7.3(8)N1(1), 7.3(7)N1(1b), 7.3(7)N1(1a), 7.3(7)N1(1), 7.3(6)N1(1), 7.3(5)N1(1), 7.3(4)N1(1), 7.3(3)N1(1), 7.3(2)N1(1), 7.3(1)N1(1), 7.3(0)N1(1)
	7.2(1)N1(1), 7.2(0)N1(1)
	7.1(5)N1(1), 7.1(4)N1(1), 7.1(3)N1(2), 7.1(3)N1(1), 7.1(2)N1(1), 7.1(1)N1(1), 7.1(0)N1(1b), 7.1(0)N1(1a)
	7.0(8)N1(1), 7.0(7)N1(1), 7.0(6)N1(1), 7.0(5)N1(1a), 7.0(5)N1(1), 7.0(4)N1(1), 7.0(3)N1(1), 7.0(2)N1(1), 7.0(1)N1(1)

Cisco MDS and Third-Party Switch Compatibility Matrix

The switch Interoperability test was performed per the Fibre Channel Methodologies for Interconnect (FC-MI) Technical Report version 1.92 which describes common methodologies for facilitating interoperability in a heterogeneous switch SAN environment.

Note For information on switch interoperability that is not covered in this document, contact your local Cisco representative. When topology and functional requirements are made explicit, Cisco can propose adequate implementations to make a multivendor environment possible. Depending on your requirements, switch interoperability may or may not be required.

Note If a major version is qualified, then all the qualified versions must also work for the switch. Also, a desired combination of a Cisco NX-OS software version and a Brocade switch may not appear in this section. In such scenarios, contact your local Cisco representative for more information.

Note From FOS version 7.x, only interop mode 3 is supported.

Note All Cisco data center switches including MDS, Nexus platforms, and UCS FI are interoperable among each other at all code levels released on Cisco website. If there is any feature specific code level recommendation for a release, we publish the information in Release Notes and product configuration guides.

Table 4: Switch Interoperability Matrix (NPV Mode), MDS 9000 Series

Switch Vendor	Switch Models	Firmware Version	Cisco MDS NX-OS Train	Cisco MDS NX-OS Qualified Versions	Cisco Configuration Mode
Brocade	All switch models	7.x and later releases	6.2.x	6.2(1), 6.2(3)	NPV
			8.x	8.1(1), 8.2(1), 8.3(1), 8.4(1a)	
			9.x	9.4(1)	

Table 5: Switch Interoperability Matrix (NPIV Feature), MDS 9000 Series

Switch Vendor	Switch Models	Firmware Version	Cisco MDS NX-OS Train	Cisco MDS NX-OS Qualified Versions	Cisco Switch Feature
Brocade (Access Gateway Mode)	All switch models	7.x and later releases	6.2.x	6.2(1), 6.2(3)	NPIV
			8.x, 9.x	8.1(1), 8.2(1), 8.3(1), 8.4(1a), 9.4(3b)	

Table 6: Switch Interoperability Matrix (NPV Mode), Nexus 5000 Series

Switch Vendor	Switch Models	Firmware Version	Cisco Nexus 5000 OS Train	Cisco NX-OS Qualified Versions	Cisco Configuration Mode
Brocade	All switch models	7.x and later releases	7.x	7.0(1)N1(1) 7.1(1)N1(1) 7.3(2)N1(1) 7.0(7)N1(1) 7.1(4)N1(1)	NPV

Table 7: Switch Interoperability Matrix (NPV Mode), Nexus 9000 Series

Switch Vendor	Switch Models	Firmware Version	Cisco Nexus 9000 OS Train	Cisco NX-OS Qualified Versions	Cisco Configuration Mode
Brocade	All switch models	7.x and later releases	7.x and later releases	9.3.5	NPV

Note Brocade switch in Access gateway (AG) Mode connected to Cisco MDS switch with NPIV enabled is certified, and vice versa. Brocade AG mode is equivalent to Cisco NPV mode and Brocade switch with NPIV feature enabled is equivalent to Cisco switch with NPIV feature enabled.

Table 8: Switch Interoperability Matrix (NPIV Feature), MDS 9000 Series

Switch Vendor	Switch Models	Firmware Version	Cisco Nexus 9000 OS Train	Cisco NX-OS Qualified Versions	Cisco Switch Feature
HPE[7]	HPE Virtual Connects.	1.0.x and later releases	6.2.x	6.2(23), 6.2(25), 6.2(27), 6.2(29), 6.2(31)	NPIV
			7.x	7.0(1)N1(1) or later releases	

[7] For detailed information, see https://h20272.www2.hpe.com/spock/utility/document.aspx?docurl=Shared%20Documents/hw/switches/C-Series_FC_Switch_Connectivity_Stream.pdf.