

Host Interoperability Matrix

The Cisco MDS and Host Interoperability Matrix is a technical reference that defines validated, supported configurations for connecting servers to a Cisco MDS fabric.

It includes details about supported HBA models, driver versions, firmware versions, and operating system requirements. Following this guide helps ensure vendor support, improves system stability, and reduces the risk of issues during infrastructure upgrades, or testing.

This chapter includes the following topics:

- HBA, CNA, and Operating System support, on page 1

HBA, CNA, and Operating System support

The following table provides details on HBA, CNA, and Operating System support.

Note In the following table, while choosing an adapter (CNA or HBA) of your interest, refer the adapter Release Notes first to check which operating system drivers are available and then choose from the Operating Systems column. Refer Table 5 for NVMe over FC support Matrix.

In the following *Software Support Matrix* tables:

- The term, *Yes* indicates the supported release versions.
- The "—" symbol indicates the unsupported release versions.

Table 1: HBA, CNA, and Operating System Support

Vendor	HBA/CNA Model	Operating Systems	Version/ Patch	Protocol	Cisco MDS 9xxx	Cisco Nexus 9xxx	Cisco Nexus 7xxx	Cisco Nexus 5xxx	Cisco Nexus 2xxx
Cisco	VIC 1225, VIC 1225T, VIC 1227, VIC1227T, VIC 1240, VIC 1280, VIC 1285, VIC 1340, VIC 1380, VIC 1385, VIC 1455, VIC 1495, VIC 15000	Windows 2012	All	FCoE	Yes	Yes	Yes	Yes	Yes
		Windows 2016	All		Yes	Yes	Yes	Yes	Yes
		Windows 2019	All		Yes	Yes	Yes	Yes	Yes
		Windows 2022	All		Yes	Yes	—	—	—
		Red Hat 7.x, 8.x	All		Yes	Yes	Yes	Yes	Yes
		SUSE 11	All		Yes	Yes	Yes	Yes	Yes
		SUSE 12	All		Yes	Yes	Yes	Yes	Yes
		SUSE 15	All		Yes	Yes	Yes	Yes	Yes
		VMware ESX 6.x, 7.x, 8.x	All		Yes	Yes	Yes	Yes	Yes

Vendor	HBA/CNA Model	Operating Systems	Version/ Patch	Protocol	Cisco MDS 9xxx	Cisco Nexus 9xxx	Cisco Nexus 7xxx	Cisco Nexus 5xxx	Cisco Nexus 2xxx
Emulex[1]	LPe38000 Series HBA, LPe37000 Series HBA, LPe36000 Series HBA, LPe35000 Series HBA, LPe32000 Series HBA, LPe31000 Series HBA, LPe16000 Series HBA, LPe1250 Series HBA, LPe12000 Series HBA	Windows 2012	All	FC	Yes	—	—	—	—
		Windows 2016	All		Yes	Yes	—	Yes	—
		Windows 2019	All		Yes	Yes	—	Yes	—
		Windows 2022	All		Yes	Yes	—	—	—
		Windows 2025	All		Yes	Yes	—	—	—
		Red Hat 7.x, 8.x, 9.x, 10.x	All		Yes	Yes	—	Yes	—
		SUSE 12	All		Yes	Yes	—	Yes	—
		SUSE 15	All		Yes	Yes	—	Yes	—
		Oracle Linux 6Ux (UEK)	All		Yes	Yes	—	Yes	—
		Oracle Linux 7Ux (UEK)	All		Yes	Yes	—	Yes	—
		Oracle Linux 8Ux (UEK)	All		Yes	Yes	—	Yes	—
		VMware ESX 6.x, 7.x, 8.x, 9.x	All		Yes	Yes	—	Yes	—
		HP-UX 11.31 IA	All		Yes	—	—	—	—
		Solaris 11	All		Yes	—	—	—	—
	OCe 14102 Series CNA, OCe 11102 Series CNA	Windows 2012	All	FCoE	Yes	Yes	Yes	Yes	Yes
		Windows 2016	All		Yes	Yes	Yes	Yes	Yes
		Red Hat 7.x	All		Yes	Yes	Yes	Yes	Yes
		SUSE 11	All		Yes	Yes	Yes	Yes	Yes
		SUSE 12	All		Yes	Yes	Yes	Yes	Yes
		VMware ESX 6.x	All		Yes	Yes	Yes	Yes	Yes

Vendor	HBA/CNA Model	Operating Systems	Version/ Patch	Protocol	Cisco MDS 9xxx	Cisco Nexus 9xxx	Cisco Nexus 7xxx	Cisco Nexus 5xxx	Cisco Nexus 2xxx
Qlogic[2]	2800 Series HBA, 2700 Series HBA, 2600 Series HBA, 2500 Series HBA	Windows 2012	All	FC	Yes	Yes	—	Yes	—
		Windows 2016	All		Yes	Yes	—	Yes	—
		Windows 2019	All		Yes	Yes	—	Yes	—
		Windows 2022	All		Yes	Yes	—	—	—
		Windows 2025	All		Yes	Yes	—	—	—
		Red Hat 7.x, 8.x, 9.x, 10.x	All		Yes	Yes	—	Yes	—
		SUSE 11	All		Yes	Yes	—	Yes	—
		SUSE 12	All		Yes	Yes	—	Yes	—
		SUSE 15	All		Yes	Yes	—	Yes	—
		Oracle Linux 6Ux (UEK)	All		Yes	Yes	—	Yes	—
		Oracle Linux 7Ux (UEK)	All		Yes	Yes	—	Yes	—
		Oracle Linux 8Ux (UEK)	All		Yes	Yes	—	Yes	—
		VMware ESX 6.x, 7.x, 8.x	All		Yes	Yes	—	Yes	—
		HP-UX 11.31 IA	All		Yes	—	—	—	—
		AIX 7.x	All		Yes	Yes	—	Yes	—
	8400 Series CNA, 8300 Series CNA, 8200 Series CNA	Windows 2012	All	FCoE	Yes	Yes	Yes	Yes	Yes
		Windows 2016	All		Yes	Yes	Yes	Yes	Yes
		Red Hat 7.x	All		Yes	Yes	Yes	Yes	Yes
		SUSE 11	All		Yes	Yes	Yes	Yes	Yes
		SUSE 12	All		Yes	Yes	Yes	Yes	Yes
		VMware ESX 6.x	All		Yes	Yes	Yes	Yes	Yes
	QL41262 CNA, QL45462 CNA	Windows 2019	All		Yes	Yes	—	—	—
		SLES 15	All		Yes	Yes	—	—	—
		Red Hat 8.x	All		Yes	Yes	—	—	—

Vendor	HBA/CNA Model	Operating Systems	Version/ Patch	Protocol	Cisco MDS 9xxx	Cisco Nexus 9xxx	Cisco Nexus 7xxx	Cisco Nexus 5xxx	Cisco Nexus 2xxx
ATTO	CTFC-322E	Windows 2016	All	FC	Yes	—	—	—	—
		Red Hat 7.x	All		Yes	—	—	—	—
		SUSE 12	All		Yes	—	—	—	—
		VMware ESX 6.x	All		Yes	—	—	—	—

[1] For Emulex adapter support with VIOS, IBMi, or AIX check IBM SSIC at http://www-03.ibm.com/systems/support/storage/ssic/interoperability.wss.
[2] For Qlogic adapter support with VIOS, IBMi, or AIX check IBM SSIC at http://www-03.ibm.com/systems/support/storage/ssic/interoperability.wss.

Note For information on OEM-branded Fibre Channel Host Bus Adapters from Broadcom and Marvell, see https://www.broadcom.com/ or www.marvell.com, and refer to the Cross Reference guides for the equivalent part or model numbers.