



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,	Windows 2012	All	FCoE	Yes	Yes	Yes	Yes	Yes
	VIC 1225T,	Windows 2016	All		Yes	Yes	Yes	Yes	Yes
	VIC 1227,	Windows 2019	All		Yes	Yes	Yes	Yes	Yes
	VIC1227T,	Windows 2022	All		Yes	Yes	—	—	—
	VIC 1240,	Red Hat 7.x, 8.x	All		Yes	Yes	Yes	Yes	Yes
	VIC 1280,	SUSE 11	All		Yes	Yes	Yes	Yes	Yes
	VIC 1285,	SUSE 12	All		Yes	Yes	Yes	Yes	Yes
	VIC 1285,	SUSE 15	All		Yes	Yes	Yes	Yes	Yes
	VIC 1340,	VMware ESX 6.x, 7.x, 8.x	All		Yes	Yes	Yes	Yes	Yes
	VIC 1380,				Yes	Yes	Yes	Yes	
	VIC 1385,				Yes	Yes	Yes	Yes	
	VIC 1455,				Yes	Yes	Yes	Yes	
VIC 1495, VIC 15000	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,	Windows 2012	All	FC	Yes	—	—	—	—		
		Windows 2016	All		Yes	Yes	—	Yes	—		
	LPe37000 Series HBA,	Windows 2019	All		Yes	Yes	—	Yes	—		
		Windows 2022	All		Yes	Yes	—	—	—		
	LPe36000 Series HBA,	Windows 2025	All		Yes	Yes	—	—	—		
		Red Hat 7.x, 8.x, 9.x, 10.x	All		Yes	Yes	—	Yes	—		
	LPe35000 Series HBA,	SUSE 12	All		Yes	Yes	—	Yes	—		
		SUSE 15	All		Yes	Yes	—	Yes	—		
	LPe32000 Series HBA,	Oracle Linux 6Ux (UEK)	All		Yes	Yes	—	Yes	—		
		Oracle Linux 7Ux (UEK)	All		Yes	Yes	—	Yes	—		
	LPe31000 Series HBA,	Oracle Linux 8Ux (UEK)	All		Yes	Yes	—	Yes	—		
		VMware ESX 6.x, 7.x, 8.x, 9.x	All		Yes	Yes	—	Yes	—		
	LPe16000 Series HBA,	HP-UX 11.31 IA	All		Yes	—	—	—	—		
		LPe1250 Series HBA,	Solaris 11		All	Yes	—	—	—		
	LPe12000 Series HBA	Yes				—	—	—			
	OCe	14102 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
		OCe 11102 Series CNA	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
			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.

