



CHAPTER 6

Disk Storage Interoperability Matrix

This chapter lists storage systems qualified by the Original Storage Vendors (OSMs), Cisco's Partners, and Cisco's Data Center InterOperability Lab for supporting seamless deployment of Storage Area Networks using the Nexus 5000 family products.

Table 6-1 *Qualified Storage Systems*

Vendor	Disk Storage Model	Page
EMC	Symmetrix DMX-3	2
	CLARiiON CX3	3
	CDL 720	3
HDS	AMS 1000	4
	USP V	4
Network Appliance	FAS v940c, v3070	5

EMC

Table 6-2 Symmetrix DMX-3

Operating System		Multipath Support (PowerPath)	Converged Network Adapter (CNA) ¹	NX-OS	MDS OS/FM
Type	Version				
Windows 2003	R2 32bit	5.1.0 (build 51)	QLogic: QLE8000	4.0(0)N1(2a) 4.0(1a)N1(1)	3.2(3a)/3.4(1a) 4.1(3)/4.1(3) ²
			Emulex: LP21002-M		
	R2 64bit	5.1 SP1 (build2)	QLogic: QLE8000		
			Emulex: LP21002-M		
Windows 2008	32bit	5.1 SP2 (build11)	QLogic: QLE8000		
			Emulex: LP21002-M		
	64bit	5.1 SP2 (build11)	QLogic: QLE8000		
			Emulex: LP21002-M		
RedHat Linux	RHEL 5.1 32bit	5.0.1 (build 22)	QLogic: QLE8000		
			Emulex: LP21002-M		
	RHEL 5.1 64bit	5.1.0 (build 194)	QLogic: QLE8000		
			Emulex: LP21002-M		
SUSE Linux	SLES-10 32bit	5.1.0 (build 194)	QLogic: QLE8000		
			Emulex: LP21002-M		
	SLES-10 64bit	5.1.0 (build 194)	QLogic: QLE8000		
			Emulex: LP21002-M		

1. The latest qualified version of the FCoE driver can be downloaded from the support page of the CNA partner website. Direct Attach Storage (DAS) configuration is not supported.
2. Cisco MDS NX-OS 4.1(3) and FM 4.1(3) are scheduled for release in Feb-09.

Table 6-3 CLARiiON CX3

Operating System		Multipath Support (PowerPath)	Coverged Network Adapter (CNA) ¹	NX-OS	MDS OS/FM
Type	Version				
Windows 2003	R2 32bit	5.1.0 (build 51)	QLogic: QLE8000	4.0(0)N1(2a)	3.2(3a)/3.4(1a)
			Emulex: LP21002-M	4.0(1a)N1(1) ²	4.1(3)/4.1(3) ³
	R2 64bit	5.1 SP1 (build2)	QLogic: QLE8000		
			Emulex: LP21002-M		
Windows 2008	32bit	5.1 SP2 (build11)	QLogic: QLE8000		
			Emulex: LP21002-M		
	64bit	5.1 SP2 (build11)	QLogic: QLE8000		
			Emulex: LP21002-M		
RedHat Linux	RHEL 5.1 32bit	5.0.1 (build 22)	QLogic: QLE8000		
			Emulex: LP21002-M		
	RHEL 5.1 64bit	5.1.0 (build 194)	QLogic: QLE8000		
			Emulex: LP21002-M		
SUSE Linux	SLES-10 32bit	5.1.0 (build 194)	QLogic: QLE8000		
			Emulex: LP21002-M		
	SLES-10 64bit	5.1.0 (build 194)	QLogic: QLE8000		
			Emulex: LP21002-M		

1. The latest qualified version of the FCoE driver can be downloaded from the support page of the CNA partner website.
2. Fibre Channel Direct Attach Storage (DAS) configuration is supported.
3. Cisco MDS NX-OS 4.1(3) and FM 4.1(3) are scheduled for release in Feb-09.

Table 6-4 CDL 720

Operating System		Converged Network Adapter (CNA) ¹	Backup Application	NX-OS	MDS OS/FM
Type	Version				
Windows 2003	R2 32bit	QLogic: QLE8000	NetBackup 6.0	4.0(0)N1(2a)	3.2(3a)/3.4(a1)
		Emulex: LP21002-M			

1. The latest qualified version of the FCoE driver can be downloaded from the support page of the CNA partner website. Direct Attach Storage (DAS) configuration is not supported.

HDS

Table 6-5 AMS 1000

Operating System		Multipath Support	Coverged Network Adapter (CNA) ¹	NX-OS	MDS OS/FM	
Type	Version					
Windows 2003	R2 32bit	HDLM 6.0	QLogic: QLE8000	4.0(0)N1(2a)	3.3(1c)/3.4(1a)	
	R2 64bit		Emulex: LP21002-M			
Windows 2008	32bit		Emulex: LP21002-M			
	64bit		QLogic: QLE8000			
RedHat Linux	RHEL 5.1 32bit		Device Mapper			QLogic: QLE8000
	RHEL 5.1 64bit					Emulex: LP21002-M
SUSE Linux	SLES-10 32bit	Emulex: LP21002-M				
	SLES-10 64bit	QLogic: QLE8000				

1. The latest qualified version of the FCoE driver can be downloaded from the support page of the CNA partner website. Direct Attach Storage (DAS) configuration is not supported.

Table 6-6 USP V

Operating System		Multipath Support	Coverged Network Adapter (CNA) ¹	NX-OS	MDS OS/FM	
Type	Version					
Windows 2003	R2 32bit	HDLM 6.0	QLogic: QLE8000	4.0(0)N1(2a)	3.3(1c)/3.4(1a)	
	R2 64bit		Emulex: LP21002-M			
Windows 2008	32bit		Emulex: LP21002-M			
	64bit		QLogic: QLE8000			
RedHat Linux	RHEL 5.1 32bit		Device Mapper			QLogic: QLE8000
	RHEL 5.1 64bit					Emulex: LP21002-M
SUSE Linux	SLES-10 32bit	Emulex: LP21002-M				
	SLES-10 64bit	QLogic: QLE8000				

1. The latest qualified version of the FCoE driver can be downloaded from the support page of the CNA partner website. Direct Attach Storage (DAS) configuration is not supported.

Network Appliance

Table 6-7 FAS v940c, v3070

Operating System		ONTAP version	Covered Network Adapter (CNA) ¹	NX-OS	MDS OS/FM
Type	Version				
Windows 2003	EE (SP1 IA64)	7.2.5.1, 7.3.0	QLogic: QLE8000	4.0(0)N1(1a)	3.3(1c)/3.4(1a)
			Emulex: LP21002-M	4.0(1a)N1(1) ²	
Windows 2008	Hyper V		Emulex: LP21002-M		
			QLogic : QLE8000		
Windows 2008			Emulex: LP21002-M		
			QLogic: QLE8000		
RedHat Linux	RHEL 5		QLogic: QLE8000		
SUSE Linux	SLES-10		Emulex: LP21002-M		
			QLogic: QLE8000		
VMware ESX	3.5 Update 3		QLogic: QLE8000		
		Emulex: LP21002-M			

1. The latest qualified version of the FCoE driver can be downloaded from the support page of the CNA partner website. Direct Attach Storage (DAS) is supported starting with Nx code version 4.0(1a)N1(1) and higher.
2. Cisco MDS NX-OS 4.1(3) and FM 4.1(3) are scheduled for release in Feb-09.

