



# CHAPTER 1

## Disk Storage Interoperability Matrix

This chapter lists storage systems qualified by the Original Storage Vendors (OSMs), Cisco's Partners, Cisco's Solution-Interoperability Engineering (iLAB) for supporting seamless deployment of Storage Area Networks using the MDS 9000 family of Fibre Channel Switch and Director class products.

Refer to the following OSM web sites to obtain the latest support matrix:

- EMC—visit: EMC Interoperability support Matrices  
<http://www.emc.com/horizontal/interoperability>
- HP—visit: HP StorageWorks SAN design reference guide  
[http://h20000.www2.hp.com/bc/docs/support/SupportManual/c00403562/c00403562.pdf?jumpid=reg\\_R1002\\_USEN](http://h20000.www2.hp.com/bc/docs/support/SupportManual/c00403562/c00403562.pdf?jumpid=reg_R1002_USEN)  
and Refer to the EBS compatibility matrix  
<http://h18006.www1.hp.com/products/storageworks/san/documentation.html>
- IBM—visit <ftp://service.boulder.ibm.com/storage/san/cisco/mds9216.pdf>  
<http://www14.software.ibm.com/webapp/set2/sas/f/vios/documentation/datasheet.html#san>
- IBM SAN Volume Controller—visit:  
<http://www-1.ibm.com/support/docview.wss?rs=591&uid=ssg1S1002472>  
[http://www-1.ibm.com/support/docview.wss?rs=591&uid=ssg1S1003091#\\_MDS](http://www-1.ibm.com/support/docview.wss?rs=591&uid=ssg1S1003091#_MDS)
- HDS—visit <http://www.hds.com/corporate/resources.html>
- Network Appliance—visit NOW service & support page (login required) for Replicator-X  
[http://now.netapp.com/NOW/knowledge/docs/olio/guides/tdps/tdps\\_interoperability\\_guide.xls](http://now.netapp.com/NOW/knowledge/docs/olio/guides/tdps/tdps_interoperability_guide.xls)

**Table 1-1** Qualified Storage Systems

Vendor	Disk Storage Model	Page
EMC	<a href="#">EMC Symmetrix 8000 Series</a>	4
	<a href="#">EMC Symmetrix DMX</a>	5
	<a href="#">CLARiiON FC4700</a>	6
	<a href="#">CLARiiON CX200</a>	7
	<a href="#">CLARiiON CX600/400/300/500/700</a>	8

**Table 1-1 Qualified Storage Systems (continued)**

<b>Vendor</b>	<b>Disk Storage Model</b>	<b>Page</b>
Hitachi Data Systems	Distance Extension	9
	TagmaStore Universal Storage Platform (USP, USPV) Series	10
	Lightning 9900 Series	11
	Lightning 9900V Series	12
	TagmaStore AMS 1000, 500	13
	Thunder 9500V Series	14
	Thunder 9200 Series	15
	HDS-NetApp Enterprise gFiler NAS Gateways	15
	Unisys - Microsoft Data Center	16
	IBM	Distance Extension
ESS 2105 model 800		18
DS 8000 Series		20
DS 6000 Series		22
DS4800		23
DS4200 (FAStT 700), DS4500 (FAStT 900)		24
DS4300 (FAStT 600 Single and Dual Controller), DS4300 Turbo		25
DS4100 (FAStT 100)		26
IBM FAStT 200, 500		27
IBM DS 8000, 6000 Series Distance Extension		28
IBM ESS 2105 Series Distance Extension		30
HP		HP XP 10000, 12000, 20000, 24000
	HP XP128, XP1024, XP48, XP512	34
	HP EVA GL -- 3000 (HSV100, HSV101), 5000 (HSV200, HSV201)	35
	HP EVA XL -- 4x00 (HSV200, HSV200-A, HSV200-B), 6x00 (HSV200, HSV200-A, HSV200-B), 8x00 (HSV200, HSV200-A, HSV200-B)	37
	HP MA8000 (HSG80)	38
	HP MSA1000, MSA1500 (Active/Active)	39
	HP VA7410, VA7400	40
	Distance Extension	41
Sun Microsystems	StorEdge 9970V	42
	StorEdge T3+	43
	StorEdge FC Array A5200	44
	StorEdge 6000	45
	StorEdge 3000	46

**Table 1-1 Qualified Storage Systems (continued)**

<b>Vendor</b>	<b>Disk Storage Model</b>	<b>Page</b>
NEC	S2300	47
	S1300	47
	S2800	47
	D1-10, D3-10	48
Fujitsu	Eternus 2000	49
	Eternus 3000	51
	Eternus 6000	52
	Eternus 4000	53
	Eternus 8000	57
ADTX	ArrayMasStor L	61
Infortrend	EonStor F16F-R2A2	62
	EonStor 2510FS	62
3PAR	3Par InServ Storage Server	63
	3Par InServ Storage Server	64
XIOtech	Magnitude (Rel. 10.01/11.01), Magnitude 3D (Rel. 2.5/3.13), Magnitude 3D 3000 (Rel 4.1)	65
Network Appliance	FAS and V-serries Product Families	67
Pillar Data Systems	Axiom Storage System 300, 500	69
Apple Computer	Xserve RAID	70
ATTO	ATTO Diamond V Class Array	71
	HP EVA 4x00, 6x00, 8x00	71
Compellent Technologies	StorageCenter	72
Nexsan	ATAboy-2X	73
	ATAbeast	73
	SATABoy	73

## EMC

Table 1-2 EMC Symmetrix 8000 Series

Operating System		Host Bus Adapter	Switch Fabric	
Type	Version			
EMC NAS7	5.0.9/11, 5.1.15/18, 5.1.9	EMC: 201-712-900, 250-734-902, 250-735-900, 250-736-900	MDS9513	FICON
HP-UX	11.0, 11i (11.11)	HP: A5158A, A6795A	MDS9509	2.0(2b)
	11.0	HP: A6684, A6685A	MDS9506	3.0(2a)
Tru64 Unix	5.1	HP: KGPSA-DA	MDS9216A <sup>1</sup>	3.0(3b)
	5.1, 5.1A, 5.1B	HP: KGPSA-CA, KGPSA-DA, KGPSA-BC, FCA 2384, FCA2354	MDS9140	3.2(2c)
OpenVMS	7.2-2, 7.3, 7.3-1	HP: KGPSA-CA, KGPSA-DA, KGPSA-BC, FCA2354	MDS9216i	3.3(1c)
AIX	5.1, 5.2, 5.3	IBM: 6227, 6228, 6239, 5716	3.0(2)	ECC
Windows 2000	Advanced Server (SP3, SP4)	Emulex: LP8000-EMC, LP850-EMC, LP9002L-E, LP9002DC-E, LP9802-E, LP982-E, LP10000-E, LP10000DC-E	3.0(2a)	2.0(3)
	Data Center	Qlogic: QLA2200F-EMC Unisys:FCH732213-P64	3.1(2)	2.1(2b)
Windows 2003	AS Enterprise Edition	Emulex: LP10000-E, LP10000DC-E, LP8000-EMC, LP9002-E, LP982-E, LP9802-E, LP9802DC-E, LP9002DC-E, LP1105	3.2(1a)	3.0(2)
	AS Standard Edition	HP: 336070-001, FCA2354, FCA2355, FCA2404 IBM: 19K1246 (QLA2310), 24P0960 (QLA2340) NEC: N8803-031	3.2(2c)	3.0(2a)
Data Center		Qlogic: QLA2310F-E, QLA2340-E, QLA2342-E Unisys: FCH20111-P64, FCH20113-P64, FCH732213-P64	3.2.(3a)	3.1(2)
			3.3(1c)	3.1(2)
Windows NT	4.0 (SP6a)	Emulex:LP8000-EMC, LP9002-E, LP982-E, LP9802-E, LP9802DC-E, LP9002DC-E, LP850-EMC IBM: 00N6881 HP: 176479, KGPSA-CB, KGPSA-CY Qlogic: QLA2200F-EMC Unisys: FCH20111-P64, FCH20113-P4	4.1(1b)	3.2(1a)
			MDS9020	3.2(2c)
Linux	RedHat AS 2.1 RedHat ES 2.1 RedHat 8.0 RedHat 7.3	HP: Mezzanine QLogic: QLA220F, QLA2310F, QLA2340-E Emulex: LP982-E, LP9002-E, LP9802-E, LP9802DC-E, LP1050DC-E, LP10000-E, LP10000DC-E	2.1(2)	3.2.(3a)
			MDS9124	3.1(2)
Solaris	8	Emulex: LP10000-E, LP10000DC-E, LP8000-EMC, LP9002DC-E, LP9002S-E, LP9002C-E Qlogic: QLA2202FS-E, QLA2340-E, QLA2342-E JNI: FC64-1063-EMC, FCE-1063-E, FCE2-1063-E, FCE2-1473-E, FCE2-6412-E, FCX2-6562-E	3.1(2)	3.1(2b)
			3.2(1a)	3.3(2)
VMWare ESX	1.5.2, 2.0.1	QLogic: QLA2340-E, QLA2342-E	3.2(3a)	
			3.3(1c)	

1. Nx-OS 4.1(1b) is supported via EMC RPQ process for MDS 9216A and 9216i switches.

Table 1-3 EMC Symmetrix DMX

Operating System		Host Bus Adapter	Switch Fabric	
Type	Version			
EMC NAS7	5.0.9/11, 5.1.15/18, 5.1.9	EMC: 201-712-900, 250-734-902, 250-735-900, 250-736-900	MDS9513 MDS9509	ECC 2.0(3)
HP-UX	11.0, 11i	HP: A5158A, A6795A	MDS9506	2.1(2b)
	11.0	HP: A6684, A6685A	MDS9216A	3.0(2)
Tru64 Unix	5.1	HP: KGPSA-DA, FCA2354	MDS9140	3.0(2a)
	5.1, 5.1A, 5.1B	HP: KGPSA-CA, KGPSA-DA, KGPSA-BC, FCA 2384, FCA2354	MDS9216i 3.0(2)	3.1(2) 3.2(1a)
OpenVMS	7.2-2, 7.3, 7.3-1	HP: KGPSA-CA, KGPSA-DA, KGPSA-BC, FCA2354	3.0(2a)	3.2(2c)
AIX	5.1, 5.2, 5.3	IBM: 6227, 6228, 6239, 5716	3.1(2)	3.2.(3a)
Windows 2000	Advanced Server (SP3, SP4)	Emulex: LP8000-EMC, LP9002L-E, LP9002DC-E, LP9802-E, LP10000-E, LP10000DC-E	3.2(1a) 3.2(2c)	3.3(1c) 4.1(1b)
	Data Center	Qlogic: QLA2200F-EMC, QLA2310-E, QLA2342-E Unisys: FCH732213-P64, FCH2113-P4, FCH732213-P64 HP: FCA2404	3.2.(3a) 3.3(1c) 4.1(1b)	RPQ 3.1(3a)
Windows 2003	Enterprise Edition	Emulex: LP10000-E, LP10000DC-E, LP8000-EMC, LP9002-E, LP982-E, LP9802-E, LP9802DC-E, LP9002DC-E	MDS9020 2.1(2)	3.1(2b) 3.3(2)
	Standard Edition	HP: 336070-001, FCA2354, FCA2355, FCA2404 IBM: 19K1246 (QLA2310), 24P0960 (QLA2340) NEC: N8803-031 Qlogic: QLA2310F-E, QLA2340-E, QLA2342-E Unisys: FCH20111-P64, FCH20113-P64, FCH732213-P64	MDS9124 3.1(2) 3.2(1a) 3.2(2c)	
Windows NT	4.0 (SP6a)	Emulex: LP8000-EMC, LP9002-E, LP982-E, LP9802-E, LP9802DC-E, LP9002DC-E, LP850-EMC	3.2.(3a) 3.3(1c) 4.1(1b)	
		IBM: 00N6881 HP: 176479, 336070-001, FCA2404, KGPSA-CB Qlogic: QLA2310-E, QLA2342-E, QLA2340-E Unisys: FCH20111-P64, FCH20113-P4	MDS9222i MDS9134	
Linux	RedHat AS 2.1	HP: Mezzanine	MSM 18/4	
	ES 2.1, 8.0, 7.3	QLogic: QLA2200F, QLA2310F, QLA2340-E Emulex: LP982-E, LP9002-E, LP9802-E, LP9802DC-E, LP1050DC-E, LP10000-E, LP10000DC-E	3.2(1a) 3.2(2c) 3.2.(3a)	
Solaris	8	Emulex: LP10000-E, LP10000DC-E, LP8000-EMC, LP9002DC-E, LP9002S-E, LP9602-E Qlogic: QLA2202F-E, QLA2202-E, QLA2202FS-E, QLA2340-E, QLA2342-E JNI: FC64-1063-EMC, FCE-1063-E, FCE2-1063-E, FCE2-1473-E, FCE2-6412-E, FCX-6562-E	3.3(1c) 4.1(1b)	FICON 2.0(2b) 3.0(2a)
	9	Emulex: LP8000-EMC, LP9002DC-E, LP9002S-E, LP9002C-E, LP9002-E Qlogic: QCP2202F-E, QLA2200F-E, QLA2342-E JNI: FCE-1063-E, FCE2-1063-E, FCE2-1473-E, FCE2-6412-E, FCX2-6562-E	3.0(3b) 3.2(2c) 3.3(1c)	
VMWare ESX	1.5.2 Patch 2 /3	QLogic: QLA2340-E, QLA2342-E		

Table 1-4 CLARiiON FC4700

Operating System		Host Bus Adapter	Switch Fabric	
Type	Version			
EMC NAS7	5.0.9, 5.0.11, 5.1.15, 5.1.18, 5.1.9	EMC: 201-712-900, 250-734-902, 250-735-900, 250-736-900	MDS9513	ECC
HP-UX	11.0, 11i	HP: A5158A, A6795A	MDS9509	2.0(3)
	11.0	HP: A6684, A6685A	MDS9506	2.1(2b)
Tru64 Unix	5.1	HP: KGPSA-DA, FCA2354	MDS9216A	3.0(2)
	5.1, 5.1A, 5.1B	HP: KGPSA-CA, KGPSA-DA, KGPSA-BC, FCA2354	MDS9140	3.0(2a)
AIX	5.1, 5.2, 5.3	IBM: 6227, 6228, 6239, 5716	MDS9216i	3.1(2)
	Advanced Server (SP3, SP4)	Emulex: LP8000-EMC, LP9002L-E, LP9002DC-E, LP9802-E, LP10000-E, LP10000DC-E	3.0(2)	3.2(1a)
Windows 2000	Data Center (SP3, SP4)	Qlogic: QLA2200F-EMC, QLA2310-E, QLA2342-E, QLA2340	3.0(2a)	3.2(2c)
		Unisys: FCH732213-P64, FCH2113-P4, FCH732213-P64	3.1(2)	3.2(3a)
		HP: FCA2404, 336070-001, FCA2354, FCA2355	3.2(1a)	3.3(1c)
		IBM: 00N6881	3.2(2c)	4.1(1b)
Windows 2003	Enterprise Edition	Emulex: LP10000-E, LP10000DC-E, LP8000-EMC, LP9002-E, LP982-E, LP9802-E, LP9802DC	3.3(1c)	RPQ
	Standard Edition	HP: 336070-001, FCA2404	3.3(1c)	3.1(3a)
		IBM: 19K1246 (QLA2310), 24P0960 (QLA2340)	4.1(1b)	3.1(2b)
		NEC: N8803-031	4.1(1b)	3.3(2)
Windows NT	4.0 (SP6a)	Qlogic: QLA2310F-E, QLA2340-E, QLA2342-E	MDS9020	
		Unisys: FCH732213-P64, FCH2113-P4, FCH732213-P64	2.1(2)	
		Emulex: LP8000-EMC, LP9002-E, LP982-E, LP9802-E, LP9802DC-E	MDS9124	
		HP: 336070-001, FCA2404	3.1(2)	
Linux	RedHat AS 2.1 RedHat ES 2.1 RedHat 8.0 RedHat 7.3	Qlogic: QLA2310-E, QLA2342-E, QLA2340-E	3.2(1a)	
		Unisys: FCH20111-P64, FCH20113-P4	3.2(2c)	
		Emulex: LP8000-EMC, LP9002-E, LP982-E, LP9802-E, LP9802DC-E	3.2(3a)	
		HP: Mezzanine	3.3(1c)	
Solaris	8	Qlogic: QLA2310F, QLA2310F, QLA2340-E	4.1(1b)	
	9	Emulex: LP982-E, LP9002-E, LP9002DC-E, LP9802-E, LP9802DC-E, LP1050DC-E, LP10000-E, LP10000DC-E	MDS9222i	
		Qlogic: QLA2340-E, QLA2342-E	MDS9134	
		Emulex: LP982-E, LP9002-E, LP9002DC-E, LP9802-E, LP9802DC-E, LP1050DC-E, LP10000-E, LP10000DC-E	MSM 18/4	
		Qlogic: QCP2202F-E	3.2(1a)	
		JNI: FCE-1063-E, FCE2-1063-E, FCE2-1473-E, FCE2-6412-E, FCX2-6562-E	3.2(2c)	
			3.2(3a)	
			3.3(1c)	
			4.1(1b)	

Table 1-5 CLARiiON CX200

Operating System		Host Bus Adapter	Switch Fabric	
Type	Version			
Windows 2000	Advanced Server (SP3, SP4) Data Center (SP3, SP4)	<b>Emulex:</b> LP8000-EMC, LP9002L-E, LP9002DC-E, LP9802-E, LP9802DC-E, LP982-E, LP10000-E, LP10000DC-E <b>Qlogic:</b> QLA2200F-EMC, QLA2310-E, QLA2342-E, QLA2340-E <b>Unisys:</b> FCH732213-P64, FCH2113-P4, FCH732213-P64 <b>HP:</b> FCA2404, 336070-001 <b>IBM:</b> 00N6881	MDS9513 MDS9509 MDS9506 MDS9216A MDS9140 MDS9216i 3.0(2) 3.0(2a) 3.0(2)	<b>ECC</b> 2.0(3) 2.1(2b) 3.0(2) 3.0(2a) 3.1(2) 3.2(1a) 3.2(2c)
Windows 2003	Enterprise Edition  Standard Edition	<b>Emulex:</b> LP10000-E, LP10000DC-E, LP9002-E, LP982-E LP9802-E, LP9802DC <b>HP:</b> 336070-001, FCA2404 <b>Qlogic:</b> QLA2310F-E, QLA2340-E, QLA2342-E	3.1(2) 3.2(1a) 3.2(2c) 3.2.(3a)	3.2.(3a) 3.3(1c) 4.1(1b)
Windows NT	4.0 (SP6a)	<b>Emulex:</b> LP8000-EMC, LP9002-E, LP982-E, LP9802-E, LP9802DC-E <b>HP:</b> 336070-001, FCA2404 <b>Qlogic:</b> QLA2310-E, QLA2342-E, QLA2340-E	3.3(1c) 4.1(1b)  MDS9020	<b>RPQ</b> 3.1(3a) 3.1(2b) 3.3(2)
Linux	RedHat AS 2.1, ES 2.1, 8.0, 7.3	<b>HP:</b> Mezzanine <b>QLogic:</b> QLA220F, QLA2310F, QLA2340-E <b>Emulex:</b> LP982-E, LP9002-E, LP9802-E, LP9002DC-E, LP9802DC-E, LP1050DC-E, LP10000-E, LP10000DC-E	2.1(2)  MDS9124 3.1(2) 3.2(1a) 3.2(2c) 3.2.(3a) 3.3(1c) 4.1(1b)  MDS9222i MDS9134 MSM 18/4 3.2(1a) 3.2(2c) 3.2.(3a) 3.3(1c) 4.1(1b)	

Table 1-6 CLARiiON CX600/400/300/500/700

Operating System		Host Bus Adapter	Switch Fabric	
Type	Version			
EMC NAS7	5.0.9, 5.0.11, 5.1.15, 5.1.18, 5.1.9	EMC: 201-712-900, 250-734-902, 250-735-900, 250-736-900	MDS9509	ECC
HP-UX	11.0, 11i	HP: A5158A, A6795A, A6684, A6685A	MDS9506	2.0(3)
			MDS9216A	2.1(2b)
Tru64 Unix	5.1, 5.1A, 5.1B	HP: KGPSA-DA, FCA2354, FC2384, KGPSA-CA, KGPSA-BC	MDS9140	3.0(2)
			MDS9216i	3.0(2a)
AIX	5.1, 5.2, 5.3	IBM: 6227, 6228, 6239, 5716	MDS9513	3.1(2)
				3.2(1a)
Windows 2000	Advanced Server (SP3, SP4) Data Center (SP3, SP4)	Emulex: LP8000-EMC, LP9002L-E, LP9802-E, LP9802DC-E, LP982-E, LP10000-E, LP10000DC-E Qlogic: QLA2200F-EMC, QLA2310-E, QLA2342-E, QLA2340-E Unisys:FCH732213-P64, FCH2113-P4, FCH732213-P64 HP: FCA2404, 336070-001 IBM: 00N6881	3.0(2)	3.2(1a)
			3.0(2a)	3.2(2c)
			3.1(2)	3.2(3a)
			3.2(1a)	3.2(2c)
			3.2(3a)	3.2(3a)
Windows 2003	Enterprise Edition Standard Edition	Emulex: LP10000-E, LP10000DC-E, LP9002-E, LP982-E, LP9802-E, LP9802DC HP: 336070-001, FCA2404 Qlogic: QLA2310F-E, QLA2340-E, QLA2342-E	3.3(1c)	4.1(1b)
			3.3(1c)	3.1(3a)
Windows NT	4.0 (SP6a)	Emulex:LP8000-EMC, LP9002-E, LP982-E, LP9802-E, LP9802DC-E HP: 336070-001, FCA2404 Qlogic: QLA2310-E, QLA2342-E, QLA2340-E	4.1(1b)	3.1(2b)
			3.1(2)	3.3(2)
Linux	RedHat AS 2.1, ES 2.1, 8.0, 7.3	HP: Mezzanine QLogic: QLA220F, QLA2310F, QLA2340-E Emulex: LP982-E, LP9002-E, LP9002DC-E, LP9802-E, LP9802DC-E, LP1050DC-E, LP10000-E, LP10000DC-E	MDS9020	
			2.1(2)	
Solaris	8	Emulex: LP10000-E, LP10000DC-E, LP8000-EMC, LP9002S-E, LP9002-E, LP9002C, LP9002DC, LP9802-E Qlogic: QLA2340-E, QLA2342-E, QCP2202F-E	MDS9124	
	9	Emulex: LP10000-E, LP10000DC-E, LP9002DC-E, LP9002C-E, LP9802-E Qlogic: QCP2202F-E	3.1(2)	
			3.2(1a)	
			3.2(1a)	
			3.2(2c)	
			3.2(3a)	
			3.3(1c)	
			4.1(1b)	
			MDS9222i	
			MDS9134	
			MSM 18/4	



Table 1-7 Distance Extension

Distance System	Maximum Distance <sup>1</sup>	Network	Protocol	Storage System	Switch Fabric	
Cisco Metro 1500	200km	DWDM	Block I/O	EMC CLARiiON FC4700, CX Series	MDS9513 MDS9509 MDS9506 MDS9216A	ECC 2.0(3) 2.1(2b) 3.0(2)
			Block I/O SRDF/S	EMC Symmetrix 8000 Series	MDS9140 MDS9216i	3.0(2a) 3.1(2)
			Block I/O SRDF/S SRDF-A	EMC Symmetrix DMX Series	3.0(2) 3.0(2a) 3.1(2)	3.2(1a) 3.2(2c) 3.2.(3a)
			Block I/O	EMC CLARiiON FC4700, CX Series	3.2(1a) 3.2(2c) 3.2.(3a) 3.3(1c)	3.3(1c) 4.1(1b)
			Block I/O SRDF/S	EMC Symmetrix 8000 Series	4.1(1b) MDS9020	3.1.3a 3.1(2b) 3.3(2)
			Block I/O SRDF/S SRDF/A	EMC Symmetrix DMX Series	2.1(2) MDS9124	
ONS 15252 ONS 15530 ONS 15540	200km	DWDM	Block I/O	EMC CLARiiON FC4700, CX Series	3.1(2) 3.2(1a) 3.2(2c) 3.2.(3a)	
			Mirror Virew <sup>2</sup>	EMC CLARiiON FC4700, CX Series	3.2(2c) 3.2.(3a) 3.3(1c)	RPQ
			Block I/O SRDF/S	EMC Symmetrix 8000 Series	4.1(1b) MDS9020	3.1.3a 3.1(2b) 3.3(2)
			Block I/O SRDF/S SRDF/A	EMC Symmetrix DMX Series	2.1(2) MDS9124	
			Block I/O	EMC CLARiiON FC4700, CX Series	3.1(2) 3.2(1a) 3.2(2c) 3.2.(3a)	
			Block I/O SRDF/S	EMC Symmetrix 8000 Series	3.3(1c) 4.1(1b)	
MDS IPS-8 MDS IPS-4 MDS9216i MPS-14/2	See note after this table.	FCIP	Block I/O	EMC CLARiiON FC4700, CX Series	3.1(2) 3.2(1a) 3.2(2c) 3.2.(3a)	
			Mirror Virew	EMC CLARiiON FC4700, CX Series	3.2(2c) 3.2.(3a) 3.3(1c)	
			Block I/O SRDF/S	EMC Symmetrix 8000 Series	4.1(1b) MDS9222i MDS9134 MSM 18/4	
			Block I/O SRDF/S SRDF/A	EMC Symmetrix DMX Series	3.2(1a) 3.2(2c) 3.2.(3a) 3.3(1c) 4.1(1b)	
			Block I/O	EMC CLARiiON FC4700, CX Series	3.2(1a) 3.2(2c) 3.2.(3a) 3.3(1c) 4.1(1b)	
			Mirror Virew	EMC CLARiiON FC4700, CX Series	3.2(1a) 3.2(2c) 3.2.(3a) 3.3(1c) 4.1(1b)	
Block I/O SRDF/S SRDF/A	EMC Symmetrix DMX Series	2.0(2) 3.0(2a) 3.0(3b) 3.2(2c) 3.3(1c)				

- Supported distance is determined by EMC field personnel and professional services based on customer's application requirements.
- The Fibre Channel Write Acceleration (FC-WA) feature with MirrorView is supported by SSI boot image version 2.1(1g) and later. Refer to the following link for latest EMC Support Matrix: <http://www.emc.com/interoperability>

# Hitachi Data Systems

**Table 1-8 TagmaStore Universal Storage Platform (USP, USPV) Series**

Operating System		Host Bus Adapter	Multipath Support	Switch Fabric	
Type	Version				
Windows 2000	Advanced Server (SP4)	<b>Emulex:</b> LP11000-M4, LP10000, LPe11000, LP10000DC, LP1050, LP1050DC, LP9802, LP9802DC, LP982, LP9002, LP9002L, LP9002DC, LP9402DC, LP952L, LP9000, LP8000, LP850 <b>QLogic:</b> QLE2460, QLA2462, QLA2340, QLA2342, QLA2344, HP Fibre card, IBM Fibre card	HDLM	MDS9513 MDS9509 MDS9506 MDS9216A MDS9140 MDS9216i 3.0(2a)	MDS9020 2.1(2)  FICON 2.0(2b) 3.0(2) 3.0(3) 3.0(3b) 3.2(2c)
Windows 2003	Enterprise Edition	<b>Emulex:</b> LP11000-M4, LP10000, LP10000DC, LP1050, LP1050DC, LP9802, LP9802DC, LP982, LP9002, LP9002L, LP9002DC, LP9402DC, LP952L, LP9000, LP8000, LP850, LP1100, LPe110000 <b>QLogic:</b> QLAE2460, QLA2462, QLA2340, QLA2342, QLA2344, HP Fibre card, IBM Fibre card	HDLM	3.0(3) 3.1(1) 3.1(2) 3.1(3a) 3.2(1a) 3.2(2c) 3.2(3)	
AIX	5.1, 5.2, 5.3	<b>IBM:</b> 6227, 6228, 6239, 5716	HDLM	3.2.(3a)	
HPUX	11.0, 11i	<b>HP:</b> A5158A, A6795A	HDLM	3.3(1a)	
Solaris	7, 8, 9, 10	<b>Emulex:</b> LP10000, LP9802, LP9002, LP9002L, LP9002DC, LP9402DC, LP952L, LP9000 <b>QLogic:</b> QLA2340 <b>JNI:</b> FCE-1473, FCE-6410, FCE2-6410, FCE2-6412, FCE-6460N <b>SUN:</b> SG-XPCI1FC-JF2, SG-XPCI2FC-JF2, X6727A, X6799A	HDLM DMP	3.3(1c) 4.1(1b)  MDS 9124 3.1(1) 3.1(2)	
Linux	RedHat AS 2.1, RedHat AS 3.0 SLES	<b>Emulex:</b> LPe11000, LP9000, LP952L, LP9002, LP9002L, LP9002DC, LP9402DC, LP9802 <b>QLogic:</b> QLA2340, QLA2342, QLA2344, HP Fibre card, IBM Fiber card	HDLM DMP	3.1(3a) 3.2(1a) 3.2(2c) 3.2(3)	
VMware <sup>1</sup>	ESX 3.01	<b>QLogic:</b> QLA2340	Bundled	3.2.(3a)	
Netware	6.0 SP2, 6.5 SP4a	<b>QLogic:</b> QLA2300F, QLA2310F, QLA2340, QLA2342, QLA2344	Bundled	3.3(1a) 3.3(1c) 3.3(1c) 4.1(1b)  MDS9222i MDS9134 MSM 18/4 3.2(1a) 3.2(2c) 3.2(3) 3.2.(3a) 3.3(1a) 3.3(1c) 4.1(1b)	

1. Guest servers Windows 2000 SP4, Windows 2003 SP1/R2, Linux AS 3.0 UP7 or latest

Table 1-9 Lightning 9900 Series

Operating System		Host Bus Adapter	Multipath Support	Switch Fabric	
Type	Version				
Windows 2000	Advanced Server (SP4)	<b>Emulex:</b> LP11000-M4, LP10000DC, LP1050, LP1050DC, LP9802, LP9802DC, LP982, LP9002, LP9002L, LP9002DC, LP9402DC, LP952L, LP9000, LP8000, LP850 <b>Qlogic:</b> QLA2460, QLA2340, QLA2342, QLA2344, HP Fibre card, IBM Fibre card	HDLM	MDS9513 MDS9509 MDS9506 MDS9216A MDS9140 MDS9216i	MDS9020 2.1(2) FICON 2.0(2b) 3.0(2) 3.0(3) 3.0(3b) 3.2(2c)
Windows 2003	Enterprise Edition	<b>Emulex:</b> LP11000-M4, LP10000DC, LP1050, LP1050DC, LP9802, LP9802DC, LP982, LP9002, LP9002L, LP9002DC, LP9402DC, LP952L, LP9000, LP8000, LP850, LP11000, LPe11000 <b>Qlogic:</b> QLE2460, QLA2462, QLA2340, QLA2342, QLA2344, HP Fibre card, IBM Fibre card		3.0(2a) 3.0(3) 3.1(1) 3.1(2) 3.1(3a) 3.2(1a) 3.2(2c) 3.2(3) 3.2.(3a) 3.3(1a) 3.3(1c) 4.1(1b)	
AIX	5.1, 5.2, 5.3	<b>IBM:</b> 6227, 6228, 6239, 5716			
HPUX	11.0, 11i	<b>HP:</b> A5158A, A6795A			
Solaris	7, 8, 9, 10	<b>Emulex:</b> LP10000, LP9802, LP9002, LP9002L, LP9002DC, LP9402DC, LP952L, LP9000 <b>QLogic:</b> QLA2340 <b>JNI:</b> FCE-1473, FCE-6410, FCE2-6410, FCE2-6412, FCE-6460N <b>SUN:</b> SG-XPCI1FC-JF2, SG-XPCI2FC-JF2, X6727A, X6799A	HDLM DMP	MDS 9124	
Linux	RedHat AS 2.1, RedHat AS 3.0 SLES	<b>Emulex:</b> LP9000, LP952L, LP9002, LP9002L, LP9002DC, LP9402DC, LP9802, LPe11000 <b>QLogic:</b> QLA2340, QLA2342, QLA2344, HP Fibre card, IBM Fiber card	HDLM DMP	3.1(1) 3.1(2) 3.1(3a) 3.2(1a)	
Netware	6.0 SP2, 6.5 SP4a	<b>QLogic:</b> QLA2300F, QLA2310F, QLA2340, QLA2342, QLA2344	Bundled	3.2(2c) 3.2(3) 3.2.(3a) 3.3(1a) 3.3(1c) 4.1(1b) MDS9222i MDS9134 MSM 18/4 3.2(1a) 3.2(2c) 3.2(3) 3.2.(3a) 3.3(1a) 3.3(1c) 4.1(1b)	

Table 1-10 Lightning 9900V Series

Operating System		Host Bus Adapter	Multipath Support	Switch Fabric	
Type	Version				
Windows 2000	Advanced Server (SP4)	<b>Emulex:</b> LPe11000, LP11000-M4, LP10000DC, LP1050, LP1050DC, LP9802, LP9802DC, LP982, LP9002, LP9002L, LP9002DC, LP9402DC, LP952L, LP9000, LP8000, LP850 <b>Qlogic:</b> QLE2460, QLA2462, QLA2340, QLA2342, QLA2344, HP Fibre card, IBM Fibre card	HDLM	MDS9513 MDS9509 MDS9506 MDS9216A MDS9140 MDS9216i 3.0(2a) 3.0(3) 3.1(1) 3.1(2) 3.1(3a) 3.2(1a) 3.2(2c) 3.2(3) 3.2.(3a) 3.3(1a)	MDS9020 2.1(2) FICON 2.0(2b) 3.0(2) 3.0(3) 3.0(3b) 3.2(2c)
Windows 2003	Enterprise Edition	<b>Emulex:</b> LPe11000, LP11000-M4, LP10000DC, LP1050, LP1050DC, LP9802, LP9802DC, LP982, LP9002, LP9002L, LP9002DC, LP9402DC, LP952L, LP9000, LP8000, LP850, LP11000 <b>Qlogic:</b> QLE2460, QLA2462, QLA2340, QLA2342, QLA2344, HP Fibre card, IBM Fibre card			
AIX	5.1, 5.2, 5.3	<b>IBM:</b> 6227, 6228, 6239, 5716			
HPUX	11.0, 11i	<b>HP:</b> A5158A, A6795A			
Solaris	7, 8, 9, 10	<b>Emulex:</b> LP10000, LP9802, LP9002, LP9002L, LP9002DC, LP9402DC, LP952L, LP9000 <b>QLogic:</b> QLA2340 <b>JNI:</b> FCE-1473, FCE-6410, FCE2-6410, FCE2-6412, FCE-6460N <b>SUN:</b> SG-XPCI1FC-JF2, SG-XPCI2FC-JF2, X6727A, X6799A	HDLM DMP	3.3(1c) 4.1(1b)  MDS 9124 3.1(1) 3.1(2) 3.1(3a) 3.2(1a) 3.2(2c) 3.2(3)	
Linux	RedHat AS 2.1, RedHat AS 3.0 SLES	<b>Emulex:</b> LPe11000, LP9000, LP952L, LP9002, LP9002L, LP9002DC, LP9402DC, LP9802 <b>QLogic:</b> QLA2340, QLA2342, QLA2344, HP Fibre card, IBM Fiber card	HDLM DMP	3.2.(3a) 3.3(1a) 3.3(1c) 4.1(1b)	
VMware <sup>1</sup>	ESX 3.01	<b>QLogic:</b> QLA2340	Bundled	3.2.(3a) 3.3(1a) 3.3(1c) 4.1(1b)	
Netware	6.0 SP2, 6.5 SP4a	<b>QLogic:</b> QLA2300F, QLA2310F, QLA2340, QLA2342, QLA2344	Bundled	3.2(3a) 3.3(1a) 3.3(1c) 4.1(1b)  MDS9222i MDS9134 MSM 18/4 3.2(1a) 3.2(2c) 3.2(3) 3.2.(3a) 3.3(1a) 3.3(1c) 4.1(1b)	

1. Guest servers Windows 2000 SP4, Windows 2003 SP1/R2, Linux AS 3.0 UP7 or latest.

Table 1-11 TagmaStore AMS 1000, 500

Operating System		Host Bus Adapter	Multipath Support	Switch Fabric	
Type	Version				
Windows 2000	Advanced Server (SP4)	<b>Emulex:</b> LPe11000, LP11000-M4, LP10000DC, LP1050, LP1050DC, LP9802, LP9802DC, LP982, LP9002, LP9002L, LP9002DC, LP9402DC, LP952L, LP9000, LP8000, LP850 <b>Qlogic:</b> QLE2460, QLA2462, QLA2340, QLA2342, QLA2344, HP Fibre card, IBM Fibre card	HDLM	MDS9513 MDS9509 MDS9506 MDS9216A MDS9140 MDS9216i	MDS9222i MDS9134 MSM 18/4 3.2(1a) 3.2(2c) 3.2(3)
Windows 2003	Enterprise Edition	<b>Emulex:</b> LPe11000, LP11000-M4, LP10000DC, LP1050, LP1050DC, LP9802, LP9802DC, LP982, LP9002, LP9002L, LP9002DC, LP9402DC, LP952L, LP9000, LP8000, LP850, LP11000 <b>Qlogic:</b> QLE2460, QLA2462, QLA2340, QLA2342, QLA2344, HP Fibre card, IBM Fibre card		3.0(2a) 3.0(3) 3.1(1) 3.1(2) 3.1(3a) 3.2(1a) 3.2(2c) 3.2(3)	3.2.(3a) 3.3(1a) 3.3(1c) 4.1(1b)  MDS9020 2.1(2)
AIX	5.1, 5.2, 5.3	<b>IBM:</b> 6227, 6228, 6239, 5716			
HPUX	11.0, 11i	<b>HP:</b> A5158A, A6795A			
Solaris	7, 8, 9, 10	<b>Emulex:</b> LP10000, LP9802, LP9002, LP9002L, LP9002DC, LP9402DC, LP952L, LP9000 <b>QLogic:</b> QLA2340 <b>JNI:</b> FCE-1473, FCE-6410, FCE2-6410, FCE2-6412, FCE-6460N <b>SUN:</b> SG-XPCI1FC-JF2, SG-XPCI2FC-JF2, X6727A, X6799A	HDLM DMP	3.2.(3a) 3.3(1a) 3.3(1c) 4.1(1b)  MDS 9124	
Linux	RedHat AS 2.1, RedHat AS 3.0 SLES	<b>Emulex:</b> LPe11000, LP9000, LP952L, LP9002, LP9002L, LP9002DC, LP9402DC, LP9802 <b>QLogic:</b> QLA2340, QLA2342, QLA2344, HP Fibre card, IBM Fiber card	HDLM DMP	3.1(1) 3.1(2) 3.1(3a) 3.2(1a) 3.2(2c)	
VMware <sup>1</sup>	ESX 3.01	<b>QLogic:</b> QLA2340	Bundled		
Netware	6.0 SP2, 6.5 SP4a	<b>QLogic:</b> QLA2300F, QLA2310F, QLA2340, QLA2342, QLA2344	Bundled		

1. Guest servers Windows 2000 SP4, Windows 2003 SP1/R2, Linux AS 3.0 UP7 or latest

Table 1-12 Thunder 9500V Series

Operating System		Host Bus Adapter	Multipath Support	Switch Fabric	
Type	Version				
Windows 2000	Advanced Server (SP4)	<b>Emulex:</b> LPe11000, LP11000-M4, LP10000DC, LP1050, LP1050DC, LP9802, LP9802DC, LP982, LP9002, LP9002L, LP9002DC, LP9402DC, LP952L, LP9000, LP8000, LP850 <b>QLogic:</b> QLE2460, QLA2462, QLA2340, QLA2342, QLA2344, HP Fibre card, IBM Fibre card	HDLM	MDS9513 MDS9509 MDS9506 MDS9216A MDS9140 MDS9216i 3.0(2a) 3.0(3) 3.1(1) 3.1(2) 3.1(3a) 3.2(1a) 3.2(2c) 3.2(3)	MDS9222i MDS9134 MSM 18/4 3.2(1a) 3.2(2c) 3.2(3) 3.2.(3a) 3.3(1a) 3.3(1c) 4.1(1b)
Windows 2003	Enterprise Edition	<b>Emulex:</b> LP11000-M4, LP10000DC, LP1050, LP1050DC, LP9802, LP9802DC, LP982, LP9002, LP9002L, LP9002DC, LP9402DC, LP952L, LP9000, LP8000, LP850, LP11000 <b>QLogic:</b> QLA2462, QLA2340, QLA2342, QLA2344, HP Fibre card, IBM Fibre card			MDS9020
AIX	5.1, 5.2, 5.3	<b>IBM:</b> 6227, 6228, 6239, 5716			2.1(2)
HPUX	11.0, 11i	<b>HP:</b> A5158A, A6795A			
Solaris	7, 8, 9, 10	<b>Emulex:</b> LP10000, LP9802, LP9002, LP9002L, LP9002DC, LP9402DC, LP952L, LP9000 <b>QLogic:</b> QLA2340 <b>JNI:</b> FCE-1473, FCE-6410, FCE2-6410, FCE2-6412, FCE-6460N <b>SUN:</b> SG-XPCI1FC-JF2, SG-XPCI2FC-JF2, X6727A, X6799A	HDLM DMP	3.2.(3a) 3.3(1a) 3.3(1c) 4.1(1b)  MDS 9124	
Linux	RedHat AS 2.1, RedHat AS 3.0 SLES	<b>Emulex:</b> LPe11000, LP9000, LP952L, LP9002, LP9002L, LP9002DC, LP9402DC, LP9802 <b>QLogic:</b> QLA2340, QLA2342, QLA2344, HP Fibre card, IBM Fiber card	HDLM DMP	3.1(1) 3.1(2) 3.1(3a) 3.2(1a)	
Netware	6.0 SP2, 6.5 SP4a	<b>QLogic:</b> QLA2300F, QLA2310F, QLA2340, QLA2342, QLA2344	Bundled	3.2(2c) 3.2(3) 3.2.(3a) 3.3(1a) 3.3(1c) 4.1(1b)	

Table 1-13 Thunder 9200 Series

Operating System		Host Bus Adapter	Multipath Support	Switch Fabric	
Type	Version				
Windows 2000	Advanced Server (SP4)	<b>Emulex:</b> LP10000, LP10000DC, LP1050, LP1050DC, LP9802, LP9802DC, LP982, LP9002, LP9002L, LP9002DC, LP9402DC, LP952L, LP9000, LP8000, LP850 <b>Qlogic:</b> QLA2340, QLA2342, QLA2344, HP Fibre card, IBM Fibre card	HDLM	MDS9500 MDS9216 1.0(2) 1.1(2) 1.2(1a)	MDS9216i 2.0(2b) 2.1(1b) 2.1(2b) 2.1(2d)
Windows 2003	Enterprise Edition	<b>Emulex:</b> LP10000, LP10000DC, LP1050, LP1050DC, LP9802, LP9802DC, LP982, LP9002, LP9002L, LP9002DC, LP9402DC, LP952L, LP9000, LP8000, LP850 <b>Qlogic:</b> QLA2340, QLA2342, QLA2344, HP Fibre card, IBM Fibre card	HDLM	1.3(3c) 1.3(4a) 2.0(2b) 2.1(1b) 2.1(2b) 2.1(2d)	
AIX	5.1, 5.2	<b>IBM:</b> 6227, 6228, 6239	HDLM		
HPUX	11.0, 11i	<b>HP:</b> A5158, A6795A	HDLM		
Solaris	7, 8, 9	<b>Emulex:</b> LP10000, LP9802, LP9002, LP9002L, LP9002DC, LP9402DC, LP952L, LP9000 <b>JNI:</b> FCE-1473, FCE-6410, FCE2-6410, FCE2-6412, FCE-6460N	HDLM	MDS9100 1.2(1a) 1.3(3c) 1.3(4a) 2.0(2b)	
Linux	RedHat AS 2.1, RedHat AS 3.0 SLES	<b>Emulex:</b> LP9000, LP952L, LP9002, LP9002L, LP9002DC, LP9402DC, LP9802 <b>QLogic:</b> QLA2340, QLA2342, QLA2344, HP Fibre card, IBM Fiber card	HDLM	2.1(1b) 2.1(2b) 2.1(2d)	
Netware	6.0 SP2, 6.5 SP1.1	<b>QLogic:</b> QLA2300F, QLA2310F, QLA2340, QLA2342, QLA2344	Bundled		

Table 1-14 HDS-NetApp Enterprise gFiler NAS Gateways

HDS Storage	Configuration	DATA ONTAP Verion	Protocol	Operating System	Switch Fabric
TagmaStore (USP)	Stand-alone and Metro Cluster	6.5.2P2	Block: FCP, iSCSI	Windows 2000 (SP 4)	MDS9500
Lightning 9900		6.5.3.H1P4	File: NFS, CIFS	Windows 2003 (SP 1)	MDS9216
Lightning 9900v				AIX (5.1, 5.2)	MDS9216i
Thunder 9500v				HP-UX (11.0, 11i)	MDS9100
				Linux (RedHat 3.0, 2.1)	1.3(4a)
			Solaris (8, 9)	2.0(2b) 2.1(1b) 2.1(2b) 2.1(2d)	

Table 1-15 Unisys - Microsoft Data Center

Storage	Server	Operating System		Host Bus Adapter	Unisys Qualified	Switch Fabric
		Type	Version			
Thunder 9200	Unisys ES7000/540 v1.0	Windows 2000	Data Center (SP3)	Emulex: LP9002L	Yes	MDS9500 MDS9216 1.0(2) 1.1(2) 1.3(3c) 1.3(4a) 2.0(2b) 2.1(1b) 2.1(2b) 2.1(2d)



**Table 1-16 Distance Extension**

Distance System	Maximum Distance <sup>1</sup>	Network (TrueCopy)	Protocol	Storage System	Switch Fabric	
MDS IPS-8 MDS IPS-4 MDS9216i MPS-14/2	See note1	FC-IP	Block I/O True Copy (Sync and Async)  FC-IP WA feature is supported	TagmaStore (USP, USPV) Lightning 9900v, 9900 Thunder 9500v (Sync. only)	MDS9509 MDS9506 MDS9216A MDS9140 MDS9216i MDS9513	MDS9222i MDS9134 MSM 18/4 3.2(1a) 3.2(2c) 3.2(3)
Cisco ONS 15530 Cisco ONS 15454 Cisco CWDM	100 km  25 km	DWDM  CWDM	Block I/O True Copy (Sync and Async)  FC-WA feature supported	TagmaStore (USP, USPV) Lightning 9900v, 9900 Thunder 9500v (Sync. only)	3.0(2a) 3.0(3) 3.1(1) 3.1(2) 3.1(3a) 3.2(1a) 3.2(2c) 3.2(3) 3.2.(3a) 3.3(1a) 3.3(1c) 4.1(1b)  MDS 9124 3.1(1) 3.1(2) 3.2(1a) 3.2(2c) 3.2(3) 3.2.(3a) 3.3(1a) 3.3(1c) 4.1(1b)	3.2.(3a) 3.3(1a) 3.3(1c) 4.1(1b)  MDS9020 2.1(2)  FICON 2.0(2b) 3.0(2) 3.0(3) 3.0(3b)

1. Supported distance is determined by HDS field personnel and professional services based on customer’s application requirements. Fibre Channel write acceleration is supported with Cisco SAN-OS Release 3.0(2a) and later.

Hitachi Universal Replicator (HUR) for TagmaStore has been qualified on Cisco MDS SAN-OS Release 3.0(2a). Single tunnel per VSAN is supported

# IBM

**Table 1-17 ESS 2105 model 800**

Operating System		Host Bus Adapter	Multipath Support	Switch Fabric	
Type	Version				
AIX	5.1, 5.2, 5.3	<b>IBM:</b> 6227, 6228, 6239, 5716	SDD	MDS 9509	Blade Center Cisco Embedded Switch <sup>1</sup> 3.1(2a) 3.1(3a) 3.2.(1a) 3.2(2c) 3.2(3) 3.2.(3a) 3.3(1c) 4.1(1c)
Windows NT	4.0 (SP6a)	<b>Emulex:</b> LP9002L, LP9002DC <b>QLogic:</b> QLA2200F, QLA2340L, QLA2342L		MDS 9506 MDS 9216A	
Windows 2000	Advanced Server (SP2 or later) Data Center	<b>Emulex:</b> LP9002L, LP9002DC, LP8000, LP9802 <b>QLogic:</b> QLA2200F, QLA2340L, QLA2342L, QLA2310F, QLA2310FL		MDS 9216i MDS 9140 MDS 9513	
Windows 2003	Standard Enterprise	<b>IBM:</b> FC2104 (FC2/133-24P0960), eServer BladeCenter HS20 (8678 and 8832)		3.0(2a) 3.0(3)	
Netware	6.0	<b>Emulex:</b> LP9002L, LP9002DC <b>QLogic:</b> QLA2200F, QLA2340L, QLA2342L, QLA2310F, QLA2310FL <b>IBM:</b> FC2104 (FC2/133-24P0960)	No	3.1(2a) 3.1(3a) 3.2(1a) 3.2(2c) 3.2(3)	
	6.5	<b>IBM:</b> eServer BladeCenter HS20 (8678 and 8832)		3.2(3)	
Linux	RedHat 7.2, AS 2.1, AS 3.0	<b>Emulex:</b> LP9002L, LP9002DC, LP8000, LP9802 <b>QLogic:</b> QLA2200F, QLA2340L, QLA2342L, QLA2310F, QLA2310FL <b>IBM:</b> FC2104 (FC2/133-24P0960)	SDD	3.2.(3a) 3.3(1c) 4.1(1c)	
	RedHat 7.3, 8, 9, 2.1	<b>IBM:</b> IBM eServer BladeCenter HS20 (8678)		MDS 9020 2.1(2)	
	RedHat AS 2.1	<b>IBM:</b> IBM eServer BladeCenter HS20 (8832)		MDS 9124	
	SLES 7	<b>Emulex:</b> LP9002L, LP9002DC <b>QLogic:</b> QLA2200F, QLA2340L, QLA2342L, QLA2310F, QLA2310FL <b>IBM:</b> FC2104 (FC2/133-24P0960)	No	3.1(2a) 3.1(3a) 3.2(1a) 3.2(2c) 3.2(3) 3.2.(3a) 3.3(1c)	
	United Linux 1.0 (SLES 8.0)	<b>IBM:</b> IBM eServer BladeCenter HS20 (8678 and 8832) <b>IBM:</b> zSeries models z800, z890, z900, z990		4.1(1c)	
Solaris	2.6, 7, 8, 9	<b>Emulex:</b> LP8000, LP9002L, LP9002DC, LP9002S, LP9002C <b>QLogic:</b> QLA2310FL, QLA2340/2342 <b>JNI:</b> FCE-6460, FCC-6562, FCX2-6562, FCC2-6562, FCE1473	SDD MPXIO	MDS9222i MDS9134 MSM 18/4 3.2(1a) 3.2(c) 3.2(3) 3.2.(3a)3.3(1c) 4.1(1c)	
HP-UX	11.0, 11i	<b>HP:</b> A5158A, A6795A			
VMware ESX	2.0	<b>IBM:</b> eServer BladeCenter HS20 (8678 and 8832)			

Table 1-17 ESS 2105 model 800 (continued)

Operating System		Host Bus Adapter	Multipath Support	Switch Fabric	
Type	Version				
OS/400 (iSeries)	V5R2, V5R3	IBM: 2766, 2787	NA	1.3(2a) and higher	
IBM z/OS (FICON or FICON Express Channel)	1.4.1 or later	IBM: zSeries models z900, z990, G5/G6 Logwave: FC2315, FC2319 Shortwave: FC2318, FC2320		1.3(4a) 2.0(2b) 3.0(2) 3.0(3) 3.0(3b) 3.2(2c) 4.1(1c)	

1. IBM Fibre Channel Switch Module (FCSM) Restrictions:

- BladeCenter and Cisco FCSM customers should run in normal switch mode, if customer wants to run with BladeCenter and Cisco FCSM in NPV mode, No IP address change are allowed as this will result in an unrecoverable state for the FCSM that would require an RMA of the switch. Status message will indicate POST not complete. IP changes can occur in normal switch mode without any issue. This problem will be fixed in the next SAN-OS release 3.2(3).
- Customers running NPV with external fabric switches, such as Cisco MDS 9124, must use the edge-switch configuration with 3.2(1a). Core switch configuration is fixed in 3.2(2c)
- Refer to <ftp://service.boulder.ibm.com/storage/san/cisco/mds9216.pdf>

Table 1-18 DS 8000 Series

Operating System		Host Bus Adapter	Multipath Support	Switch Fabric	
Type	Version				
AIX	5.1, 5.2, 5.3	<b>IBM:</b> FC 0612, FC 0625, FC 0626, FC 0646, FC 2766, FC 2787, FC 1977, FC 5716, FC 6228, FC 6239	SDD	MDS 9509	Blade Center Cisco Embedded Switch
NAS Gateway 500	5198 model 001	NA		MDS 9506	
Windows 2000	Advanced Server Data Center	<b>Emulex:</b> LP9002L, LP9002DC, LP9402DC, LP9802		MDS 9216A	
Windows 2003	Standard Edition Enterprise Edition	LP10000, LP10000DC	No	MDS 9216i	3.1(2a)
Netware	5.1, 6.0, 6.5	<b>QLogic:</b> QLA2310F, QLA2310FL, QLA2340F, QLA2342FL		MDS 9140	3.1(3a)
Linux	RedHat 2.1, 3.0	<b>IBM:</b> 19K1246, 24P0960, eServer BladeCenter HS20, HS40, LS20		MDS 9513	3.2(1a)
	SLES 8, 9	<b>Emulex:</b> LP9002L, LP9002DC, LP9802, LP9402DC, LP10000, LP10000DC	SDD	3.0(2a)	3.2(3)
		<b>QLogic:</b> QLA2340F, QLA2342FL, QLA2310F, QLA2310FL		3.0(3)	3.2(3a)
		<b>IBM:</b> FC 0612, FC 0625, FC 0626, FC 0646, FC 2766, FC 2787, FC 1977, FC 5716, FC 6228, FC 6239, 19K1246, 24P0960		3.1(2a)	3.2(3c)
IBM Virtual Server (VIOS)	1.1	<b>IBM:</b> FC 1977, FC 5716, FC 6228, FC 6239	SDD	3.1(3a)	3.3(1c)
				3.2(1a)	4.1(1c)
				3.2(2c)	
				3.2(3)	
				3.2.(3a)	
				3.3(1c)	
				4.1(1c)	
				MDS 9020	
				2.1(2)	
				MDS 9124	
				3.1(2a)	
				3.1(3a)	
				3.2(1a)	
				3.2(2c)	
				3.2(3)	
				3.2.(3a)	
				3.3(1c)	
				4.1(1c)	
				MDS9222i	
				MDS9134	
				MSM 18/4	
				3.2(1a)	
				3.2(2c)	
				3.2(3)	
				3.2.(3a)	
				3.3(1c)	
				4.1(1c)	

Table 1-18 DS 8000 Series (continued)

Operating System		Host Bus Adapter	Multipath Support	Switch Fabric	
Type	Version				
Solaris	8, 9, 10	<b>Emulex:</b> LP9002L, LP9002DC, LP9402DC, LP9002S LP9802, LP10000, LP10000DC <b>QLogic:</b> QLA2310FL, QLA2310F, QLA2340F, QLA2342FL <b>AMCC/JNI:</b> FCE-6460, FCX2-6562, FCX-6562, FCE-1473 <b>Sun:</b> 6727A, 6757A, 6767A (SG-XPCI1FC-QF2), 6768A (SG-XPCI2FC-QF2)	SDD		
HP-UX	11.i, 11v2 (11.23)	<b>HP:</b> A5158A, A6795A, A6684A, A6826A, A6685A, A9782A			
VMware ESX	2.5.0, 2.5.1	<b>IBM:</b> Blade Center HS20, HS40, 19K1246, 24P0960 <b>Emulex:</b> LP9402DC, LP9802 <b>QLogic:</b> QLA2310F, QLA2310FL, QLA2340F, QLA2342FL			
OS/400 i5/OS	V5R3	<b>IBM:</b> FC 0612, FC 0625, FC 0626, FC 0646, FC 2766, FC 2787	NA	1.3(2a) or higher	
IBM z/OS (FCP, FICON) z/OS (FICON) z/OS.e (FICON) z/VM (FCP, FICON) z/VSE (FCP, FICON) VSE/ESA (FICON) Linux RH (FICON) Suse (FCP, FICON)	ver. 1 R4, R5, R6 ver. 1 R4, R5, R6 ver. 4 R4, Ver 5 R1 ver. 3 R1 ver 2 R7 3.0 8, 9	<b>IBM:</b> zSeries models z900, z990, IBM 9672 G5 and G6, z800, z890, z9-109: FC 2315, FC 2318, FC 2319, FC2320, FC 3319, FC 3320 <b>IBM:</b> S/390: FC 2314, FC 2316		1.3(4a) 2.0(2b) 3.0(2) 3.0(3) 3.0(3b) 3.2(2c) 3.3(1c) 4.1(1c)	

Table 1-19 DS 6000 Series

Operating System		Host Bus Adapter	Multipath Support	Switch Fabric	
Type	Version				
AIX	5.1, 5.2, 5.3	IBM: FC 5716, FC 6228, FC 6239	SDD	MDS 9509	MDS9222i
NAS Gateway 500	5198 model 001	NA		MDS 9506	MDS9134
Windows 2000	Advanced Server (SP2 or later) Data Center	Emulex: LP9002L, LP9002DC, LP9402DC, LP9802 LP10000, LP10000DC QLogic: QLA2310F, QLA2310FL, QLA2340L, QLA2342L, QLA2310F, QLA2310FL IBM: 19K1246, 24P0960, eServer BladeCenter HS20 (8678 and 8832)		MDS 9216A MDS 9216i MDS 9140 MDS 9513 3.0(2a) 3.0(3) 3.1(2a) 3.1(3a) 3.2(1a) 3.2(2c)	MSM 18/4 3.2(1a) 3.2(2c) 3.2(3) 3.2.(3a) 3.3(1c) 4.1(1c)
Windows 2003	Standard Edition Enterprise Edition		No		Blade Center Cisco Embedded Switch
Netware	6.0				3.1(2a)
	6.5	IBM: eServer BladeCenter HS20 (8678 and 8832)		3.2(3) 3.2.(3a) 3.3(1c) 4.1(1c)	3.1(3a) 3.2(1a) 3.2(3) 3.2.(3a) 3.3(1c) 4.1(1b)
Linux	RedHat 2.1, 3.0	Emulex: LP9002L, LP9002DC, LP9802, LP9402DC, LP10000, LP10000DC QLogic: QLA2340L, QLA2342FL, QLA2310F, QLA2310FL IBM: FC2104 (FC2/133-24P0960)	SDD	MDS 9020 2.1(2)	
	SLES 8		No	MDS 9124	
Solaris	8, 9	Emulex: LP9002L, LP9002DC, LP9402DC, LP9002S LP9802 QLogic: QLA2310FL, QLA2310F, QLA2340L, QLA2342L JNI: FCE-6460, FCX2-6562, FCX-6562, FCE-1473	SDD	3.1(2a) 3.2(1a) 3.2(2c) 3.2(3) 3.2.(3a) 3.3(1c) 4.1(1c)	
HP-UX	11.i, 11v2 (11.23)	HP: A5158A, A6795A, A6684A, A6826A, A6685A, A9782A			
VMware ESX	2.0	IBM: Blade Center HS20 (8678, 8832) Emulex: LP9402DC, LP9802 QLogic: QLA2310F, QLA2310FL, QLA2340L, QLA2342L			
OS/400 (iSeries)	V5R2, V5R3	IBM: FC2766, FC 2787, FC 0646, FC 0612, FC 0626	NA	1.3(2a) or higher	
IBM z/OS (FICON or FICON Express Channels)	1.4.1 or later	IBM: zSeries models z900, z990, G5/G6 Longwave: FC2315, FC2319 Shortwave: FC2318, FC2320		1.3(4a) 2.0(2b) 3.0(2) 3.0(3) 3.0(3b) 3.2(2c) 3.3(1c) 4.1(1b)	

Table 1-20 DS4800

Operating System		Host Bus Adapter	Multipath Support	Switch Fabric	
Type	Version				
AIX	5.1, 5.2, 5.3	<b>IBM:</b> 6227, 6228, 6239, 5716, JS20 blade	RDAC	MDS 9509 MDS 9506	Blade Center Cisco Embedded Switch
Windows 2000	Server Advanced Server	<b>IBM:</b> FC2103, FC2104, FC2102 <b>QLogic:</b> QLA2200F, QLA2340L, QLA2342L, QLA2300F, QLA2310F		MDS 9216A MDS 9216i	3.1(2a) 3.1(3a)
Windows 2003	Standard, Enterprise, Web Edition	<b>IBM:</b> eServer BladeCenter HS20, HS40 (8678 and 8832) <b>Emulex:</b> LP9002, LP9402, LP9802, LP10000		MDS 9140 MDS 9513	3.2(1a) 3.2(2c) 3.2(3)
Netware	6.0	<b>IBM:</b> FC2103, FC2104 <b>QLogic:</b> QLA2200F, QLA2340L, QLA2342L, QLA2300F, QLA2310F, QLA2310FL	No	3.0(2a) 3.0(3)	3.2.(3a) 3.3(1c)
	6.5	<b>IBM:</b> eServer BladeCenter HS20, HS40 (8678 and 8832)		3.1(2a) 3.1(3a) 3.2(1a) 3.2(2c) 3.2(3) 3.3(1c)	4.1(1c) \ 3.3(1c)
Linux	RedHat AS 2.1	<b>IBM:</b> FC2103, FC2104	RDAC	4.1(1c)	
	United Linux 1.0 (SLES 8)	<b>QLogic:</b> QLA2200F, QLA2340L, QLA2342L, QLA2300F, QLA2310F <b>Emulex:</b> LP9002, LP9402, LP9802, LP10000	No	MDS 9020 2.1(2)	
	RedHat 7.3, 8, 9	<b>IBM:</b> eServer Blade Center HS20, HS40	RDAC	MDS 9124 3.1(2a) 3.1(3a) 3.2(1a)	3.2(2c) 3.2(3) 3.2.(3a)
	RedHat 3.0				
	United Linux 1.0 (SLES 8)				
Solaris	2.6, 7, 8, 9	<b>JNI:</b> FCE-1473, FCE-6460 <b>QLogic:</b> QLA2200F, QLA2300F, QLA2310F	RDAC		
HP-UX	11.0, 11i	<b>HP:</b> A5158A, A6795A, A3591B, A3740	RDAC		3.3(1c) 4.1(1c)
VMware ESX	2.5.2	<b>IBM:</b> eServer Blade Center HS20, HS40 (8678 and 8832) <b>QLogic:</b> QLA2200F, QLA2340L, QLA2342L, QLA2300F, QLA2310F <b>Emulex:</b> LP9002, LP9402, LP9802, LP10000		MDS9222i MDS9134 MSM 18/4	3.2(1a) 3.2(2c) 3.2(3) 3.2.(3a) 3.3(1c) 4.1(1c)

Table 1-21 DS4200 (FAStT 700), DS4500 (FAStT 900<sup>1</sup>)

Operating System		Host Bus Adapter	Multipath Support	Switch Fabric	
Type	Version				
AIX	5.1, 5.2, 5.3	IBM: 6227, 6228, 6239, 5716, JS20	RDAC	MDS 9509	Blade Center Cisco Embedded Switch 3.1(2a) 3.1(3a) 3.2(1a) 3.2(2c) 3.2(3) 3.2.(3a) 3.3(1c) 4.1(1c)
Windows NT	4.0 (SP6a)	IBM: FC2103, FC2104 QLogic: QLA2200F, QLA2340L, QLA2342L, QLA2300F Emulex: LP9002, LP9402, LP9802, LP10000		MDS 9506 MDS 9216A MDS 9216i MDS 9140 MDS 9513	
Windows 2000	Server Advanced Server	IBM: FC2103, FC2104 QLogic: QLA2200F, QLA2340L, QLA2342L, QLA2300F, QLA2310F		3.0(2a) 3.0(3)	
Windows 2003	Standard, Enterprise, Web Edition	IBM: eServer BladeCenter HS20, HS40		3.1(2a) 3.1(3a)	
Netware	6.0	IBM: FC2103, FC2104 QLogic: QLA2200F, QLA2340L, QLA2342L, QLA2300F, QLA2310F Emulex: LP9002, LP9402, LP9802, LP10000	No	3.2(1a) 3.2(2c) 3.2(3) 3.2.(3a) 3.3(1c) 4.1(1c)	
	6.5	IBM: eServer BladeCenter HS20, HS40			
Linux	RedHat AS 2.1	IBM: FC2103, FC2104	RDAC		
	United Linux 1.0 (SLES 8)		No	MDS 9020 2.1(2)	
	RedHat 7.3, 8, 9	IBM: eServer BladeCenter HS20, HS40	RDAC		
	RedHat AS 2.1			MDS 9124 3.1(2a) 3.1(3a)	
	United Linux 1.0 (SLES 8)				
Solaris	2.6, 7, 8, 9, 10	JNI: FCE-1473, FCE-6460 QLogic: QLA2200F, QLA2340L, QLA2342L, QLA2300F, QLA2310F	RDAC MPXIO	3.2(1a) 3.2(2c) 3.2(3)	
HP-UX	11.0, 11i	HP: A5158A, A6795A, A6826A, A3591B	RDAC	3.2.(3a) 3.3(1c) 4.1(1c)	
VMware ESX	2.0, 2.5.2	IBM: eServer Blade Center HS20, HS40 Emulex: LP9002, LP9402, LP9802, LP10000 QLogic: QLA2200F, QLA2340L, QLA2342L, QLA2300F		MDS9222i MDS9134 MSM 18/4 3.2(1a) 3.2(2c) 3.2(3) 3.2.(3a) 3.3(1c) 4.1(1c)	

1. Refer to the following links for latest IBM interoperability support matrix: <http://www-03.ibm.com/systems/storage/disk/ds4000/pdf/interop-matrix.pdf>  
<ftp://service.boulder.ibm.com/storage/san/cisco/mds9216.pdf>



Table 1-22 DS4300 (FAStT 600 Single and Dual Controller), DS4300 Turbo

Operating System		Host Bus Adapter	Multipath Support	Switch Fabric		
Type	Version					
AIX	5.1, 5.2, 5.3	IBM: 6227, 6228, 6239, 5716	No	MDS 9509	MDS9222i	
Windows NT	4.0 (SP6a)	IBM: FC2102, FC2103, FC2104	RDAC	MDS 9506	MDS9134	
Windows 2000	Server Advanced Server (SP3)	QLogic: QLA2200F, QLA2340L, QLA2342L, QLA2300F, QLA2310F, QLA2310FL		MDS 9216A	MSM 18/4	
Windows 2003	Standard, Enterprise, Web Edition	Emulex: LP9002, LP9402, LP9802		MDS 9216i	3.2(1a)	
Netware	6.0	IBM: FC2103, FC2104 QLogic: QLA2200F, QLA2340L, QLA2342L, QLA2300F, QLA2310F, QLA2310FL	No	MDS 9140	3.2(2c)	
				MDS 9513	3.2(3)	
				3.0(2a)	3.2.(3a)	
				3.0(3)	3.3(1c)	
Linux	RedHat AS 2.1, 3.0 RedHat 3.0 (xSeries)	IBM: FC2103, FC2104 QLogic: QLA2340L, QLA2342L, QLA2300F, QLA2310F, QLA2310FL	RDAC	3.1(2a)	Blade Center Cisco Embedded Switch	
				3.2(2c)		3.1(2a)
	United Linux 1.0 (SLES 8) SLES 9 (pSeries)		No	3.2(3)		3.1(3a)
				3.2.(3a)		3.2(1a)
Solaris	2.6, 7, 8, 9, 10	JNI: FCE-1473, FCE-6460 QLogic: QLA2300F, QLA2340, QLA2342	RDAC MPXIO	3.3(1c)	3.2(2c)	
				4.1(1c)	3.2(3)	
HP-UX	11.0, 11i	HP: A5158A, A6795A	RDAC	MDS 9020	3.2.(3a)	
				2.1(2)	3.3(1c)	
				MDS 9124	4.1(1c)	
				3.1(2a)		
				3.1(3a)		
				3.2(1a)		
				3.2(2c)		
				3.2(3)		
				3.2.(3a)		
				3.3(1c)		
4.1(1c)						

Table 1-23 DS4100 (FAStT 100)<sup>1</sup>

Operating System		Host Bus Adapter	Multipath Support	Switch Fabric	
Type	Version				
AIX	5.1, 5.2, 5.3	<b>IBM:</b> 6227, 6228, 6239, 5716	No	MDS 9509	MDS9222i
Windows 2000	Server	<b>IBM:</b> FC2102, FC2103, FC2104	RDAC	MDS 9506	MDS9134
	Advanced Server (SP3)	<b>QLogic:</b> QLA2200F, QLA2340L, QLA2342L, QLA2300F, QLA2310F, QLA2310FL		MDS 9216A	MSM 18/4
Windows 2003	Standard, Enterprise, Web Edition	<b>Emulex:</b> LP9002, LP9402, LP9802	No	MDS 9216i	3.2(1a)
Linux	RedHat 3.0	<b>IBM:</b> FC2103, FC2104 <b>QLogic:</b> QLA2340L, QLA2342L, QLA2300F, QLA2310F, QLA2310FL	RDAC	MDS 9140	3.2(2c)
				MDS 9513	3.2(3)
	SLES 9 (pSeries)		No	3.0(2a)	3.2.(3a)
	SLES 8 (xSeries)			3.0(3)	3.3(1c)
				3.1(2a)	4.1(1c)
				3.1(3a)	
				3.2(1a)	Blade Center Cisco Embedded Switch
				3.2(2c)	
				3.2(3)	3.1(2a)
				3.2.(3a)	3.1(3a)
				3.3(1c)	3.2(1a)
				4.1(1c)	3.2(2c)
					3.2(3)
				MDS 9020	3.2.(3a)
				2.1(2)	3.3(1c)
				2.1(3)	4.1(1c)
				MDS 9124	
				3.1(2a)	
				3.1(3a)	
				3.2(1a)	
				3.2(2c)	
				3.2(3)	
				3.2.(3a)	
				3.3(1c)	
				4.1(1c)	

1. Refer to the following URL for complete IBM SAN Volume Controller Compatibility information with Cisco MDS 9000 Family switches:  
<http://www-1.ibm.com/support/docview.wss?rs=591&uid=ssg1S1002472>

Table 1-24 IBM FAStT 200, 500

Operating System		Host Bus Adapter	RDAC Multipath Support	Switch Fabric	
Type	Version	Model			
AIX	5.1, 5.2, 5.3	<b>IBM:</b> 6227, 6228, 6239, 5716, JS20	No	MDS9500	MDS9124
Windows NT	4.0 (SP6a)	<b>IBM:</b> FC2103, FC2104 <b>QLogic:</b> QLA2200F, QLA2340L, QLA2342L, QLA2300F	Yes	MDS9216	3.1(2a)
Windows 2000	Server Advanced Server	<b>QLogic:</b> QLA2200F, QLA2340L, QLA2342L, QLA2300F, QLA2310F		MD9216i	3.1(3a)
				MDS9100	3.2(2c)
Windows 2003	Standard, Enterprise, Web Edition	<b>IBM:</b> eServer Blade Center HS20, HS40		1.3(4a)	3.2(3)
Linux	RedHat 7.3, 8, 9	<b>IBM:</b> eServer Blade Center HS20 (8678)	2.0(2b)	3.2.(3a)	
			2.1(1b)	4.1(1c)	
			2.1(2b)		
	SLES 9 (pSeries) SLE 8.0 (xSeries)	<b>IBM:</b> eServer Blade Center HS20 (8832)	2.1(2d)	MDS9222i	
RedHat 3.0 (pSeries) RedHat 8.0 (xSeries)	<b>IBM:</b> eServer Blade Center HS20 (8832, 8678) <b>QLogic:</b> QLA2200F, QLA2340L, QLA2342L, QLA2300F, QLA2310F, FC2103, FC2104	3.0(2)	MDS9134		
		3.0(2a)	MSM 18/4		
Solaris	2.6, 7, 8, 9	<b>JNI:</b> FCE-1473, FCE-6460 <b>QLogic:</b> QLA2200F, QLA2340L, QLA2342L, QLA2300F, QLA2310F, FC2103, FC2104	3.0(3)	3.2(1a)	
			3.1(2a)	3.2(2c)	
			3.1(3a)	3.2(3)	
			3.2(1a)	3.2.(3a)	
HP-UX	11.0, 11i	<b>HP:</b> A5158A, A6795A	3.2(2c)	3.3(1c)	
			3.2(3)	4.1(1c)	
VMware ESX	2.0, 2.5.2	<b>IBM:</b> eServer Blade Center HS20, HS40	3.2(3a)	4.1(1c)	
			3.3(1c)		
			3.3(1c)		
			4.1(1c)		

Table 1-25 IBM DS 8000, 6000 Series Distance Extension

Cisco Product	Protocol	Enhanced Remote Mirror			Global Mirror FICON	Cisco Fabric	
		Metro Mirroring	Global Copy	Global Mirroring			
IP Service Module (IPS 4, IPS 8)	FC-IP	Ver. 5.0.0 & higher	Ver. 5.0.0 & higher	Ver. 5.0.0 & higher	Ver. 5.0.0 & higher	MDS 9509	MDS9222i
MDS 9216i						MDS 9506	MDS9134
MPS-14/2						MDS 9216A	MSM 18/4
Cisco ONS	FC					MDS 9216i	3.2(1a)
Cisco CWDM						MDS 9140	3.2(2c)
						MDS 9513	3.2(3)
						3.0(2a)	3.2.(3a)
						3.0(3)	3.3(1c)
						3.1(2a)	4.1(1c)
						3.1(3a)	
						3.2(1a)	Blade Center
						3.2(2c)	Cisco
						3.2(3)	Embedded
						3.2.(3a)	Switch
						3.3(1c)	3.1(2a)
						4.1(1c)	3.1(3a)
							3.2(1a)
	MDS 9020	3.2(2c)					
	2.1(2)	3.2(3)					
	2.1(3)	3.2.(3a)					
		3.3(1c)					
		4.1(1c)					
	MDS 9124						
	3.1(2a)						
	3.1(3a)						
	3.2(1a)						
	3.2(2c)						
	3.2(3)						
	3.2.(3a)						
	3.3(1c)						
	4.1(1c)						

**Table 1-26 IBM DS 4000 Series Distance Extension**

Cisco Product	Protocol	Volume Copy	RVM	Cisco Fabric		
Cisco CWDM	FC	ver. 8.3, 8.41 & higher	ver. 8.3, 8.41 & higher	MDS 9509	MDS9222i	
				MDS 9506	MDS9134	
				MDS 9216A	MSM 18/4	
				MDS 9216i	3.2(1a)	
				MDS 9140	3.2(2c)	
				MDS 9513	3.2(3)	
				3.0(2a)	3.2.(3a)	
				3.0(3)	3.3(1c)	
				3.1(2a)	4.1(1c)	
				3.1(3a)		
				3.2(1a)	Blade Center Cisco Embedded Switch	
				3.2(2c)		
				3.2(3)		3.1(2a)
				3.2.(3a)		3.1(3a)
				3.3(1c)		3.2(1a)
				4.1(1c)		3.2(2c)
						3.2(3)
				MDS 9020		3.2.(3a)
				2.1(2)		3.3(1c)
						4.1(1c)
				MDS 9124		
				3.1(2a)		
				3.1(3a)		
				3.2(1a)		
				3.2(2c)		
				3.2(3)		
				3.2.(3a)		
				3.3(1c)		
4.1(1c)						

Table 1-27 IBM ESS 2105 Series Distance Extension

Cisco Product	Protocol	PPRC Sync	PPRC Long Distance	Async Cascade		Cisco Fabric	
				PPRC-XD	Async PPRC		
IP Service Module (IPS 8, IPS 4)	FC-IP	ver. 2.3.0 & higher	ver. 2.3.0 & higher	ver. 2.3.0 & higher	ver 2.4.0 & higher	MDS 9509	MDS9222i
MPS-14/2						MDS 9506	MDS9134
MDS 9216i						MDS 9216A	MSM 18/4
Cisco CWDM	FC					MDS 9216i	3.2(1a)
Cisco ONS						MDS 9140	3.2(2c)
						MDS 9513	3.2(3)
						3.0(2a)	3.2.(3a)
						3.0(3)	3.3(1c)
						3.1(2a)	4.1(1c)
						3.1(3a)	
						3.2(1a)	Blade Center
						3.2(2c)	Cisco Embedded
						3.2(3)	Switch
						3.2.(3a)	3.1(2a)
						3.3(1c)	3.1(3a)
						4.1(1c)	3.2(1a)
		3.2(2c)					
	MDS 9020	3.2(3)					
	2.1(2)	3.2.(3a)					
	2.1(3)	3.3(1c)					
		4.1(1c)					
	MDS 9124						
	3.1(2a)						
	3.1(3a)						
	3.2(1a)						
	3.2(2c)						
	3.2(3)						
	3.2.(3a)						
	3.3(1c)						
	4.1(1c)						

**Table 1-28 IBM SAN Volume Controller<sup>1</sup>**

SVC version	Protocol			Cisco Fabric
	FC	FC-IP	iSCSI	
V2.1.0 & higher	2.1(2b)	2.1(2b)	Windows 2000 (1.06 driver)	MDS9513
	3.0(2)	3.0(2)	Windows 2003 (1.06 driver)	MDS9509
	3.2(1a)	3.2(1a)	Red Hat AD 2.1, 3.0 (3.6.2 driver), 4.0	MDS9506
	3.2(2c)	3.2(2c)		MDS9216
	3.2(3)	3.2(3)		MDS9216i
	3.2.(3a)	3.2.(3a)		MDS9100
	3.3(1c)	3.3(1c)		MDS9124
	4.1(1c)	4.1(1c)		

1. Refer to the following URL for the complete IBM SAN Volume Controller Compatibility Matrix under Supported Hardware with Cisco MDS product family:  
<http://www-304.ibm.com/jct01004c/systems/support/supportsite.wss/supportresources?taskind=4&brandind=5000033&familyind=5329743>

## HP

Table 1-29 HP XP 10000, 12000, 20000, 24000<sup>1</sup>

Operating System		Host Bus Adapter	Multipath Support	Switch Fabric	
Type	Version				
OpenVMS Alpha	7.3-2, 8.2, 8.3	<b>HP:</b> FCA2354, FCA2384, FCA2684, FCA2684DC <b>Emulex:</b> LP8000, LP9002, LP9802, LP10000, LP10000DC	Native	MDS9513 MDS9509 MDS9506	MDS9222i MDS9134 MSM 18/4
OpenVMS IA64 <sup>3</sup>	8.2-1, 8.3, 8.3-1H1	<b>HP:</b> AD299A, AD355A, A6826A, A9782A, A9784A, AB465A, AB378A, AB378B, AB379A, AB379B, AD300A, AD193A, AD194A, QMH2462		MDS9216A MDS9216i MDS9140	3.2(1a) 3.2(2c) 3.2(3)
HP-UX <sup>4</sup>	11iv1, 11iv2	<b>HP:</b> A5158, A6795A, AB465A, A9782A, A9784A, A6826A, AB378A, AB379A, AD193A, AD194A, AB378B, AB379A, AD300A, AD299A, AD355A, QMH2462, Mezzanine	SecurePath	3.0(2a)	3.3(1c)
	11iv3		Native	3.0(3) 3.1(2a) 3.1(3a)	4.1(1b)
Tru64 Unix	5.1B-3, 5.1B-4	<b>Emulex:</b> LP8000, LP9002, LP9802, LP10000, LP10000DC		3.2(1a) 3.2(2c)	FICON 3.0(3) 3.2(2c)
AIX	4.3.3, 5.1, 5.2, 5.3	<b>IBM:</b> 5716, 6227, 6228, 6239	MPIO/ODM	3.2(3) 3.3(1c)	
Windows 2000	Advanced Server (SP3+)	<b>HP:</b> DS-KGPSA-CB, FCA2355, FCA2101, LP9802DC, LP1050DC, FCA2214, FCA2214-DC, Mezzanine, Balcony <b>QLogic:</b> QLA2462, QLA234x, QMH2462 <b>Emulex:</b> LP1050DC, LP1050EX, LP11002-M4, LP9802DC, LP8000, LPe1105	SecurePath  Microsoft MPIO/DSM	4.1(1b)  MDS9020 2.1(2) 2.1(3)	MDS9500 MDS9100 MDS9200 1.3(4a) 2.0(1b) 2.1(2b) 3.1.3(a) 3.2(1a) 3.2(2c) 3.2(3) 3.3(1c) 4.1(1b)
Windows 2003	Enterprise Edition	<b>HP:</b> DS-KGPSA-CB, FCA2355, FCA2101, FCA2214, FCA2214-DC, Mezzanine, Balcony <b>Qlogic:</b> QLA2462, QLA234x <b>Emulex:</b> LP11002-M4, LP1050DC, LP9802DC, LP8000		MDS9124 3.1(2) 3.1(3a) 3.2(1a) 3.2(2c) 3.2(3) 3.3(1c) 4.1(1b)  <sup>2</sup> MDS9124e 3.1(2a) 3.1(3a) 3.2(1a) 3.2(2c) 3.2(3) 3.3(1c) 4.1(1b)	BDE 3.2.(3a) 3.3(1a) 3.3(1c)



Table 1-29 HP XP 10000, 12000, 20000, 24000<sup>1</sup> (continued)

Operating System		Host Bus Adapter	Multipath Support	Switch Fabric	
Type	Version				
Windows 2008 <sup>5</sup>	IA32 & x64	<b>Emulex:</b> LP1050 (FC2143), LP11002 (FC2243), LPe1150 (FC2142SR), LPe11002 (FC2242SR), LPe1105 (HP c-Class Mezz Card), LP9802DC (FCA2404DC), LP982 (FCA2408) <b>QLogic:</b> QLA2460 (FC1143), QLA2462 (FC1243), QLE2460 (FC1142), QLE2462 (FC1242), QLA2340 (FCA2214), QLA2342 (FCA2214DC), QMH2462 (HP c-Class Mezz Card) <b>HP:</b> FC Mezz Card (p-Class BL20p G2), FC Adapter Card (p-Class BL20p G3, BL45p G2), Mezzanine FCA (p-Class BL20p G4), HPBALCF 105 (p-Class BL25p, BL45p), FC Balcony Card (p-Class BL30p, BL35p), E-FC Adapter Card (p-Class BL20p G3), E-FC Balcony Card (p-Class BL25p, BL45p, BL45p G2, BL30p, BL35p, BL45p)	HP MPIO FF DSM 3.00.00		
Windows NT	Enterprise 4.0 (SP6a)	<b>HP:</b> FCA2355, FCA2101, DS-KGPSA-CB	EOL		
Solaris	8, 9, 10	<b>Emulex:</b> LP9802, LP10000DC <b>QLogic:</b> QLA2202, QLA2310, QLA234x, QLA2462 <b>JNI:</b> FCE-6410, FCX-6562, FCE-6460, FCE-1473 <b>Sun:</b> SG-XPCI1FC-QF2, SG-XPCI2FC-QF2	MPXIO  Veritas DMP  SecurePath		
Linux (32bit or 64bit)	Red Hat EL 3 U6+ Red Hat EL 4 U1+ SuSE 8 SP4+ SuSE 9 SP2+	<b>HP:</b> Mezzanine, Balcony <b>QLogic:</b> QLA234x, QLA 2462, QLE 2462, QMH2462 <b>Emulex:</b> LP11002, LPe1105	Emulex Multipulse  QLogic Path Failover		
Netware	5.1 SP8 & higher	<b>HP:</b> Mezzanine <b>QLogic:</b> QLA234x	Native		
VMware ESX Server (XP 12000 not supported)	3.0	<b>HP:</b> FCA2214, FCA2210, FCA2214DC, Mezzanine, Balcony	Native		

1. Boot From SAN is supported
2. HP Fibre Channel Switch Module (MDS 9124e) Restrictions:
  - The NPV mode can be supported with Brocade fabric configuration in InterOp mode or Native mode. If the MDS9124e NPV is connected to an external fabric comprising of only Brocade switches, use Brocade Native mode only. If the MDS9124e NPV is connected to an external fabric with a mix of Brocade and Ciscoswitches, then Brocade (and Cisco) switches need to be set to InterOp mode-1 (as defined in the document below)
  - Refer to <http://bizsupport.austin.hp.com/bc/docs/support/SupportManual/c00758719/c00758719.pdf>
3. Open VMS is not supported on the MSA 1500 active/passive configuration.
4. HPUX 11iv1 is not supported on AD194A, AB378B, AB379B, Mezzanine cards. QMH2462 is supported on HPUX 11iv2, 3 only. AD299A and AD355A is supported on HPUX 11iv2 only.
5. Cisco MDS SAN-OS 3.2(3) is the minimum version required for Windows 2008 support.

Table 1-30 HP XP128, XP1024, XP48, XP512<sup>1</sup>

Operating System		Host Bus Adapter	Multipath Support	Switch Fabric	
Type	Version				
OpenVMS Alpha	7.3-2, 8.2, 8.3	<b>HP:</b> FCA2354, FCA2384, FCA2684, FCA2684DC <b>Emulex:</b> LP8000, LP9002, LP9802, LP10000, LP10000DC	Native	MDS9513 MDS9509 MDS9506 MDS9216A MDS9216i MDS9140	MDS9500 MDS9100 MDS9200 1.3(4a) 2.0(1b) 2.1(2b)
OpenVMS IA64 <sup>2</sup>	8.2-1, 8.3, 8.3-1H1	<b>HP:</b> AD299A, AD355A, A6826A, A9782A, A9784A AB465A, AB378A, AB378B, AB379A AB379B, AD300A, AD193A, AD194A, QMH2462			
HP-UX <sup>3</sup>	11iv1, 11iv2	<b>HHP:</b> A5158, A6795A, AB465A, A9782A, A9784A, A6826A, AB378A, AB379A, AD193A, AD194A, AB378B, AB379A, AD300A, AD299A, AD355A, QMH2462, Mezzanine	SecurePath	3.0(2a)	3.1.3(a)
	11iv3		Native	3.0(3) 3.1(2a) 3.1(3a) 3.2(2c) 3.2(3) 3.3(1c)	3.2(1a) 3.2(2c) 3.2(3) 3.3(1c) 4.1(1b)
Tru64 Unix	5.1B-3, 5.1B-4	<b>Emulex:</b> LP8000, LP9002, LP9802, LP10000, LP10000DC			
AIX	4.3.3, 5.1, 5.2, 5.3	<b>IBM:</b> 5716, 6227, 6228, 6239	MPIO/ODM		
Windows 2000	Advanced Server (SP3+)	<b>HP:</b> DS-KGPSA-CB, FCA2355, FCA2101, LP9802DC, LP1050DC, FCA2214, FCA2214-DC, Mezzanine, Balcony <b>QLogic:</b> QLA2462, QLA234x, QMH2462 <b>Emulex:</b> LP1050DC, LP1050EX, LP11002-M4, LP9802DC, LP8000, LPe1105	SecurePath  Microsoft MPIO/DSM	3.3(1c) 4.1(1b)  MDS9020 2.1(2) 2.1(3)	BDE 3.2.(3a) 3.3(1a) 3.3(1c)
Windows 2003	Enterprise Edition	<b>HP:</b> DS-KGPSA-CB, FCA2355, FCA2101, FCA2214, FCA2214-DC, Mezzanine, Balcony <b>Qlogic:</b> QLA2462, QLA234x <b>Emulex:</b> LP11002-M4, LP1050DC, LP9802DC, LP8000		MDS9124 3.1(2) 3.1(3a) 3.2(1a) 3.2(2c) 3.2(3)	MDS9222i MDS9134 MSM 18/4 3.2(1a) 3.2(2c) 3.2(3) 3.3(1c)
Windows NT	Enterprise 4.0 (SP6a)	<b>HP:</b> FCA2355, FCA2101, DS-KGPSA-CB	EOL		
Solaris	8, 9, 10	<b>Emulex:</b> LP9802, LP10000DC <b>QLogic:</b> QLA2202, QLA2310, QLA234x, QLA2462 <b>JNI:</b> FCE-6410, FCX-6562, FCE-6460, FCE-1473 <b>Sun:</b> SG-XPCI1FC-QF2, SG-XPCI2FC-QF2	MPXIO	3.3(1c) 4.1(1b)	4.1(1b)
			Veritas DMP		
			SecurePath	MDS9124e 3.1(2a)	3.0(3) 3.2(2c)
Linux (32bit or 64bit)	Red Hat EL 3 U6+ Red Hat EL 4 U1+ SuSE 8 SP4+ SuSE 9 SP2+	<b>HP:</b> Mezzanine, Balcony <b>Qlogic:</b> QLA234x, QLA 2462, QLE 2462, QMH2462 <b>Emulex:</b> LP11002, LPe1105	Emulex	3.1(3a)	3.3(1c)
			Multipulse	3.2(1a) 3.2(2c)	
			QLogic Path Failover	3.2(3) 3.3(1c)	
Netware	5.1 SP8 & higher	<b>HP:</b> Mezzanine <b>QLogic:</b> QLA234x	Native	4.1(1b)	
VMware ESX Server (XP 12000 not supported)	3.0	<b>HP:</b> FCA2214, FCA2210, FCA2214DC, Mezzanine, Balcony	Native		

1. Boot From SAN is supported
2. OpenVMS is not supported on the MSA 1500 active/passive configuration.
3. HPUX 11iv1 is not supported on AD194A, AB378B, AB379B, Mezzanine cards. QMH2462 is supported on HPUX 11iv2, 3 only. AD299A and AD355A is supported on HPUX 11iv2 only.

Table 1-31 HP EVA GL -- 3000 (HSV100, HSV101), 5000 (HSV200, HSV201)<sup>1</sup>

Operating System		Host Bus Adapter	Multipath Support	Switch Fabric	
Type	Version				
OpenVMS Alpha	7.3-2, 8.2, 8.3	<b>HP:</b> FCA2354, FCA2384, FCA2684, FCA2684DC <b>Emulex:</b> LP8000, LP9002, LP9802, LP10000, LP10000DC	Native	MDS9513	MDS9124e
OpenVMS IA64 <sup>2</sup>	8.2-1, 8.3, 8.3-1H1	<b>HP:</b> AD299A, AD355A, A6826A, A9782A, A9784A AB465A, AB378A, AB378B, AB379A AB379B, AD300A, AD193A, AD194A, QMH2462		MDS9509	3.1(2a)
HP-UX <sup>3</sup>	11iv1, 11iv2	<b>HP:</b> A5158, A6795A, AB465A, A9782A, A9784A, A6826A, AB378A, AB379A, AD193A, AD194A, AB378B, AB379A, AD300A, AD299A, AD355A, QMH2462, Mezzanine	SecurePath	MDS9140	3.2(1a)
	11iv3		native	3.0(2a)	3.3(1c)
Tru64 Unix	5.1B-3, 5.1B-4	<b>Emulex:</b> LP8000, LP9002, LP9802, LP10000, LP10000DC		3.0(3)	4.1(1b)
AIX	4.3.3, 5.1, 5.2, 5.3	<b>IBM:</b> 5716, 6227, 6228, 6239	MPIO/ODM	3.1(2a)	
Windows 2000	Advanced Server (SP3+)	<b>HP:</b> DS-KGPSA-CB, FCA2355, FCA2101, LP9802DC, LP1050DC, FCA2214, FCA2214-DC, Mezzanine, Balcony <b>Emulex:</b> LP1050DC, LP1050EX, LP11002-M4, LP8000 <b>QLogic:</b> QLA2462, QLA234x	SecurePath	3.1(3a)	MDS9500
			Microsoft MPIO/DSM	3.2(1a)	MDS9100
Windows 2003	Enterprise Edition	<b>HP:</b> DS-KGPSA-CB, FCA2355, FCA2101, FCA2214, FCA2214-DC, Mezzanine, Balcony <b>Emulex:</b> LP1050DC, LP1050EX, LP11002-M4, LP8000, LP9802 <b>QLogic:</b> QLA2462, QLA234x		3.2(2c)	MDS9200
				3.2(3)	1.3(4a)
Windows 2008 <sup>4</sup>	IA32 & x64	<b>Emulex:</b> LP1050 (FC2143), LP11002 (FC2243), LPe1150 (FC2142SR), LPe11002 (FC2242SR), LPe1105 (HP c-Class Mezz Card), LP9802DC (FCA2404DC), LP982 (FCA2408) <b>QLogic:</b> QLA2460 (FC1143), QLA2462 (FC1243), QLE2460 (FC1142), QLE2462 (FC1242), QLA2340 (FCA2214), QLA2342 (FCA2214DC), QMH2462 (HP c-Class Mezz Card) <b>HP:</b> FC Mezz Card (p-Class BL20p G2), FC Adapter Card (p-Class BL20p G3, BL45p G2), Mezzanine FCA (p-Class BL20p G4), HPBALCF 105 (p-Class BL25p, BL45p), FC Balcony Card (p-Class BL30p, BL35p), E-FC Adapter Card (p-Class BL20p G3), E-FC Balcony Card (p-Class BL25p, BL45p, BL45p G2, BL30p, BL35p, BL45p)	HP MPIO FF DSM 3.00.00	4.1(1b)	2.1(2b)
					3.3(1c)
Windows NT	Enterprise Edition 4.0 (SP6a)	<b>HP:</b> FCA2355, FCA2101, DS-KGPSA-CB	EOL	MDS9020	3.2(1a)
					2.1(2)
Linux (32bit or 64bit)	RedHat AS 2.1 Red Hat EL 3 U6+ Red Hat EL 4 U1+ SuSE 7 SuSE 8 SP4+ SuSE 9 SP2+	<b>HP:</b> FCA2214, Mezzanine, Balcony <b>QLogic:</b> QLA234x	Emulex Multipulse	2.1(3)	3.2(2c)
					3.2(2c)
Solaris	8, 9, 10	<b>JNI:</b> FCE-1473, FCE-6410, FCX-6562, FCE-6460 <b>Emulex:</b> LP9802, LP10000DC <b>QLogic:</b> QLA2310, QLA234x <b>Sun:</b> SG-XPCI1FC-QF2, SG-XPCI2FC-QF2	MPXIO	3.3(1c)	BDE
					4.1(1b)
Solaris	8, 9, 10	<b>JNI:</b> FCE-1473, FCE-6410, FCX-6562, FCE-6460 <b>Emulex:</b> LP9802, LP10000DC <b>QLogic:</b> QLA2310, QLA234x <b>Sun:</b> SG-XPCI1FC-QF2, SG-XPCI2FC-QF2	Veritas DMP	MDS9124	3.3(1a)
					3.1(2)
Solaris	8, 9, 10	<b>JNI:</b> FCE-1473, FCE-6410, FCX-6562, FCE-6460 <b>Emulex:</b> LP9802, LP10000DC <b>QLogic:</b> QLA2310, QLA234x <b>Sun:</b> SG-XPCI1FC-QF2, SG-XPCI2FC-QF2	SecurePath	3.1(3a)	4.1(1b)
					3.2(1a)
Solaris	8, 9, 10	<b>JNI:</b> FCE-1473, FCE-6410, FCX-6562, FCE-6460 <b>Emulex:</b> LP9802, LP10000DC <b>QLogic:</b> QLA2310, QLA234x <b>Sun:</b> SG-XPCI1FC-QF2, SG-XPCI2FC-QF2	SecurePath	MDS9222i	
					MDS9134
Solaris	8, 9, 10	<b>JNI:</b> FCE-1473, FCE-6410, FCX-6562, FCE-6460 <b>Emulex:</b> LP9802, LP10000DC <b>QLogic:</b> QLA2310, QLA234x <b>Sun:</b> SG-XPCI1FC-QF2, SG-XPCI2FC-QF2	SecurePath	MSM 18/4	
					3.2(1a)
Solaris	8, 9, 10	<b>JNI:</b> FCE-1473, FCE-6410, FCX-6562, FCE-6460 <b>Emulex:</b> LP9802, LP10000DC <b>QLogic:</b> QLA2310, QLA234x <b>Sun:</b> SG-XPCI1FC-QF2, SG-XPCI2FC-QF2	SecurePath	3.2(2c)	
					3.2(3)
Solaris	8, 9, 10	<b>JNI:</b> FCE-1473, FCE-6410, FCX-6562, FCE-6460 <b>Emulex:</b> LP9802, LP10000DC <b>QLogic:</b> QLA2310, QLA234x <b>Sun:</b> SG-XPCI1FC-QF2, SG-XPCI2FC-QF2	SecurePath	3.3(1c)	
					4.1(1b)

Table 1-31 HP EVA GL -- 3000 (HSV100, HSV101), 5000 (HSV200, HSV201<sup>1</sup>) (continued)

Operating System		Host Bus Adapter	Multipath Support	Switch Fabric	
Type	Version				
Netware	5.1 SP8	HP: Mezzanine	Native		
	6.1 SP4	QLogic: QLA234x			
VMware ESX Server	3.0	HP: FCA2214, FCA2210, FCA2214DC, Mezzanine	Native		

1. Boot From SAN is supported
2. OpenVMS is not supported on the MSA 1500 active/passive configuration.
3. HPUX 11iv1 is not supported on AD194A, AB378B, AB379B, Mezzanine cards. HPUX 11iv3 supports EVA 3000/5000 active/active configuration. QMH2462 is supported on HPUX 11iv2, 3 only. AD299A and AD355A is supported on HPUX 11iv2 only.
4. Cisco MDS SAN-OS 3.2(3) is the minimum version required for Windows 2008 support. Only active/active EVA firmware versions are supported.

**Table 1-32 HP EVA XL -- 4x00 (HSV200, HSV200-A, HSV200-B), 6x00 (HSV200, HSV200-A, HSV200-B), 8x00 (HSV200, HSV200-A, HSV200-B)<sup>1</sup>**

Operating System		Host Bus Adapter	Multipath Support	Switch Fabric	
Type	Version				
OpenVMS Alpha	7.3-2, 8.2, 8.3	<b>HP:</b> FCA2354, FCA2384, FCA2684, FCA2684DC <b>Emulex:</b> LP8000, LP9002, LP9802, LP10000, LP10000DC	Native	MDS9513	MDS9124e
	OpenVMS IA64 <sup>2</sup>	<b>HP:</b> AD299A, AD355A, A6826A, A9782A, A9784A AB465A, AB378A, AB378B, AB379A AB379B, AD300A, AD193A, AD194A, QMH2462		MDS9509	3.1(2a)
HP-UX <sup>3</sup>	11iv1, 11iv2	<b>HP:</b> A5158, A6795A, AB465A, A9782A, A9784A, A6826A, AB378A, AB379A, AD193A, AD194A, AB378B, AB379A, AD300A, AD299A, AD355A, QMH2462, Mezzanine	SecurePath	MDS9506	3.1(3a)
	11iv3		Native	MDS9216A	3.2(1a)
Tru64 Unix <sup>4</sup>	5.1B-3, 5.1B-4	<b>Emulex:</b> LP8000, LP9002, LP9802, LP10000, LP10000DC	SecurePath	MDS9216i	3.2(2c)
	AIX			4.3.3, 5.1, 5.2, 5.3	<b>IBM:</b> 5716, 6227, 6228, 6239
Windows 2000 (SP3+)	Advanced Server (SP3+)	<b>HP:</b> DS-KGPSA-CB, FCA2355, FCA2101, LP9802DC, LP1050DC, FCA2214, FCA2214-DC, Mezzanine, Balcony <b>Emulex:</b> LP1050DC, LP1050EX, LP11002-M4, LP8000 <b>QLogic:</b> QLA2462, QLA234x	SecurePath	3.0(2a)	3.3(1c)
			Microsoft MPIO/DSM	3.0(3)	4.1(1b)
Windows 2008 <sup>5</sup>	IA32 & x64	<b>Emulex:</b> LP1050 (FC2143), LP11002 (FC2243), LPe1150 (FC2142SR), LPe11002 (FC2242SR), LPe1105 (HP c-Class Mezz Card), LP9802DC (FCA2404DC), LP982 (FCA2408) <b>Qlogic:</b> QLA2460 (FC1143), QLA2462 (FC1243), QLE2460 (FC1142), QLE2462 (FC1242), QLA2340 (FCA2214), QLA2342 (FCA2214DC), QMH2462 (HP c-Class Mezz Card) <b>HP:</b> FC Mezz Card (p-Class BL20p G2), FC Adapter Card (p-Class BL20p G3, BL45p G2), Mezzanine FCA (p-Class BL20p G4), HPBALCF 105 (p-Class BL25p, BL45p), FC Balcony Card (p-Class BL30p, BL35p), E-FC Adapter Card (p-Class BL20p G3), E-FC Balcony Card (p-Class BL25p, BL45p, BL45p G2, BL30p, BL35p, BL45p)	HP MPIO FF DSM 3.00.00	MDS9020	3.1(3a)
				2.1(2)	3.2(1a)
Windows NT	Enterprise Edition 4.0 (SP6a)	<b>HP:</b> FCA2355, FCA2101, DS-KGPSA-CB	EOL	MDS9124	3.1(4a)
				3.2(3)	2.0(1b)
Linux (32bit or 64bit)	RedHat AS 2.1 Red Hat EL 3 U6+ Red Hat EL 4 U1+ SuSE 7 SuSE 8 SP4+ SuSE 9 SP2+	<b>HP:</b> FCA2214, Mezzanine, Balcony <b>QLogic:</b> QLA234x	Emulex Multipulse	3.1(2)	2.1(2b)
				3.1(3a)	3.1(3a)
Solaris	8, 9, 10	<b>JNI:</b> FCE-1473, FCE-6410, FCX-6562, FCE-6460 <b>Emulex:</b> LP9802, LP10000DC <b>QLogic:</b> QLA2310, QLA234x <b>Sun:</b> SG-XPCI1FC-QF2, SG-XPCI2FC-QF2	MPXIO	3.2(1a)	3.2(3)
				3.2(2c)	4.1(1b)
			Veritas DMP	MDS9022i	BDE
				SecurePath	3.2(3a)
				MDS9134	3.3(1a)
				MSM 18/4	3.3(1c)
				3.2(1a)	3.3(1c)
				3.2(2c)	3.3(1c)
				3.2(3)	4.1(1b)
				4.1(1b)	

**Table 1-32 HP EVA XL -- 4x00 (HSV200, HSV200-A, HSV200-B), 6x00 (HSV200, HSV200-A, HSV200-B), 8x00 (HSV200, HSV200-A, HSV200-B)<sup>1</sup> (continued)**

Operating System		Host Bus Adapter	Multipath Support	Switch Fabric	
Type	Version				
Netware	5.1 SP8	HP: Mezzanine	Native		
	6.1 SP4	QLogic: QLA234x			
VMware ESX Server	3.0	HP: FCA2214, FCA2210, FCA2214DC, Mezzanine, Balcony	Native		
MAC-OS <sup>6</sup>	10.4.11	ATTO: Celerity FC-41XS, Celerity FC-41ES, Celerity FC-42ES, Celerity FC-44ES	No		

1. Boot From SAN is supported
2. OpenVMS is not supported on the MSA 1500 active/passive configuration.
3. HPUX 11iv1 is not supported on AD194A, AB378B, AB379B, Mezzanine cards. QMH2462 is supported on HPUX 11iv2, 3 only. AD299A and AD355A is supported on HPUX 11iv2 only.
4. True64 is not supported on EVA4400 and MSA1500 (active/passive) arrays.
5. Cisco MDS SAN-OS 3.2(3) is the minimum version required for Windows 2008 support. Only active/active EVA firmware versions are supported.
6. Certified bundled solution by HP/ATTO

**Table 1-33 HP MA8000 (HSG80)**

Operating System		Host Bus Adapter	Multipath Support	Switch Fabric	
Type	Version				
AIX	4.3.3, 5.1, 5.3	IBM: 6227, 6228, 5716	SecurePath		MDS9513
Windows 2000	Advanced Server (SP3+)	HP: DS-KGPSA-CB, FCA2355, FCA2101, LP9802DC, LP1050DC, FCA2214, FCA2214-DC, Mezzanine	SecurePath		MDS9509
Windows 2003	Enterprise Edition	HP: DS-KGPSA-CB, FCA2355, FCA2101, FCA2214, FCA2214-DC, Mezzanine			MDS9506
Windows NT	Enterprise 4.0 (SP6a)	HP: FCA2355, FCA2101, DS-KGPSA-CB			MDS9216A
Linux	RedHat AS 2.1	HP: FCA2214, Mezzanine			MDS9216i
	SUSE 7	HP: FCA2214			MDS9140
Solaris	8, 9	JNI: FCE-6410, FCX-6562, FCE-6460, LP9802			3.0(2a)
		QLogic: QLA2310			3.0(3)
		JNI: FCE-1473			3.1(2)
		Sun: SG-XPCI2FC-QF2			3.2(1a)
Netware	5.1 SP8	HP: Mezzanine			MDS9020
	6.1 SP4	Qlogic: QLA234x			2.1(2)
					MDS9124
					3.1(2)
					3.2(1a)
					MDS9222i
					MDS9134
					MSM 18/4
					3.2(1a)

Table 1-34 HP MSA1000, MSA1500 (Active/Active)<sup>1</sup>

Operating System		Host Bus Adapter	Multipath Support	Switch Fabric	
Type	Version				
HP-UX <sup>2</sup>	11iv1, 11iv2	<b>HP:</b> A5158, A6795A, AB465A, A9782A, A9784A, A6826A, AB378A, AB379A, AD193A, AD194A, AB378B, AB379A, AD300A, AD299A, AD355A, QMH2462, Mezzanine	Single Path	MDS9513 MDS9509 MDS9506 MDS9216A	MDS9124e 3.1(2a) 3.1(3a) 3.2(1a)
	11iv3		Native	MDS9216i	3.2(2c)
OpenVMS Alpha	7.3-2, 8.2, 8.3	<b>HP:</b> FCA2354, FCA2384, FCA2684, FCA2684DC <b>Emulex:</b> LP8000, LP9002, LP9802, LP10000, LP10000DC	Native	MDS9140	3.2(3)
				3.0(2a) 3.0(3) 3.1(2)	3.3(1c) 4.1(1b)
OpenVMS IA64 <sup>3</sup>	8.2-1, 8.3, 8.3-1H1	<b>HP:</b> AD299A, AD355A, A6826A, A9782A, A9784A AB465A, AB378A, AB378B, AB379A AB379B, AD300A, AD193A, AD194A, QMH2462		3.1(3a)	MDS9500
				3.2(1a) 3.2(2c) 3.2(3) 3.3(1c)	MDS9100 MDS9200 1.3(4a) 2.0(1b)
Tru64 Unix	5.1B-3, 5.1B-4	<b>Emulex:</b> LP8000, LP9002, LP9802, LP10000, LP10000DC		4.1(1b)	2.1(1b) 2.1(2b)
Windows 2000	Advanced Server (SP3+)	<b>HP:</b> DS-KGPSA-CB, FCA2355, FCA2101, LP9802DC, LP1050DC, FCA2214, FCA2214-DC, Mezzanine, Balcony <b>Emulex:</b> LP8000 <b>Qlogic:</b> QLA234x	SecurePath (Active/Passive)  Microsoft MPIO/DM (Active/Active)	MDS9020	3.1(3a) 3.2(1a) 3.2(2c)
				2.1(2)	3.2(3)
Windows 2003	Enterprise Edition	<b>HP:</b> FCA2355, FCA2101, FCA2214, FCA2214-DC, DS-KGPSA-CB, Mezzanine, Balcony <b>Emulex:</b> LP8000, LP9002, LP9802 <b>QLogic:</b> QLA234x		3.1(2)	3.3(1c)
				3.1(3a) 3.2(1a) 3.2(2c) 3.2(3)	4.1(1b)  BDE 3.2.(3a)
Windows 2008 <sup>4</sup>	IA32 & x64	<b>Emulex:</b> LP1050 (FC2143), LP11002 (FC2243), LPe1150 (FC2142SR), LPe11002 (FC2242SR), LPe1105 (HP c-Class Mezz Card), LP9802DC (FCA2404DC), LP982 (FCA2408) <b>Qlogic:</b> QLA2460 (FC1143), QLA2462 (FC1243), QLE2460 (FC1142), QLE2462 (FC1242), QLA2340 (FCA2214), QLA2342 (FCA2214DC), QMH2462 (HP c-Class Mezz Card) <b>HP:</b> FC Mezz Card (p-Class BL20p G2), FC Adapter Card (p-Class BL20p G3, BL45p G2), Mezzanine FCA (p-Class BL20p G4), HPBALCF 105 (p-Class BL25p, BL45p), FC Balcony Card (p-Class BL30p, BL35p), E-FC Adapter Card (p-Class BL20p G3), E-FC Balcony Card (p-Class BL25p, BL45p, BL45p G2, BL30p, BL35p, BL45p)	HP MPIO FF DSM 3.00.00	3.3(1c) 4.1(1b)	3.3(1a) 3.3(1c)
				MDS9222i MDS9134 MSM 18/4	3.2(1a) 3.2(2c) 3.2(3) 3.3(1c) 4.1(1b)
Windows NT	Enterprise Edition 4.0 (SP6a)	<b>HP:</b> FCA2355, FCA2101, DS-KGPSA-CB	EOL		

Table 1-34 HP MSA1000, MSA1500 (Active/Active)<sup>1</sup> (continued)

Operating System		Host Bus Adapter	Multipath Support	Switch Fabric	
Type	Version				
Linux (32bit or 64bit)	RedHat AS 2.1 Red Hat EL 3 U6+ Red Hat EL 4 U1+ SuSE 7 SuSE 8 SP4+ SuSE 9 SP2+	<b>HP:</b> FCA2214, Mezzanine, Balcony <b>QLogic:</b> QLA234x	Emulex Multipulse  Qlogic Failover		
VMware ESX Server (MSA1000 only)	3.0	<b>HP:</b> FCA2214, FCA2210, FCA2214DC, Mezzanine <b>QLogic:</b> QLA234x	Native		

1. Boot From SAN is supported
2. HPUX 11iv1 is not supported on AD194A, AB378B, AB379B, Mezzanine cards. MSA 1000 active/active supports HPUX 11iv3 only. MSA 1000/1500 single control support HPUX 11iv1, v2 only. MSA1500 active/active configurations supports HPUX 11iv1, 2, 3 versions. QMH2462 is supported on HPUX 11iv2, 3 only. AD299A and AD355A is supported on HPUX 11iv2 only.
3. Open VMS is not supported on the MSA 1500 active/passive configuration.
4. Cisco MDS SAN-OS 3.2(3) is the minimum version required for Windows 2008 support. Only active/active EVA firmware versions are supported.

Table 1-35 HP VA7410, VA7400

Operating System		Host Bus Adapter	Multipath Support	Switch Fabric
Type	Version			
Windows 2000	Advanced Server (SP3)	<b>HP:</b> DS-KGPSA-CB, FCA2355, FCA2101, FCA2214, FCA2214-DC, LP1050, LP9802DC, LP10000DC	SecurePath	MDS9513 MDS9509 MDS9506 MDS9216A MDS9216i MDS9140 3.0(2a) 3.0(3) 3.1(2)
Windows 2003	Enterprise Edition	<b>HP:</b> DS-KGPSA-CB, FCA2355, FCA2101, FCA2214, FCA2214-DC, LP1050DC, LP10000, LP9802		MDS9020 2.1(2)  MDS9124 3.1(2)



**Table 1-36 Distance Extension**

Distance System	Maximum Distance	Network	Protocol	Storage System	Switch fabric
Cisco 1000Base-CWDM  HP StorageWorks - CWDM 2-Slot MUX - CWDM 8-port MUX - CWDM Slot A 4-port Add/Drop Multiplexer - CWDM Slot B 4-port Add/Drop Multiplexer	50km	CWDM	Block I/O CA (Sync)	HP EVA GL (3.028) HP XL (5.031, 5.110, 6.0)	MDS9513 MDS9509
			Block I/O CA (Sync, Async)	HP XP128/1024, XP48/512, XP12000	MDS9506 MDS9216A MDS9216i MDS 9 3.0(2a) 3.0(3) 3.1(2a)
Cisco 15530	100km	DWDM	Block I/O CA (Sync)	HP EVA GL (3.028)) HP XL (5.031, 5.110, 6.0)	3.1(3a) 3.2(1a)
			Block I/O CA (Sync, Async)	HP XP128/1024, XP48/512, XP12000	3.2(2c) 3.2(3)
Cisco 15540	100km	DWDM	Block I/O CA (Sync)	HP EVA GL (3.028)) HP XL (5.031, 5.110, 6.0)	3.3(1c) 4.1(1b)
			Block I/O CA (Sync, Async)	HP XP128/1024, XP48/512, XP12000	MDS9222i
Cisco 15252	100km	DWDM	Block I/O CA (Sync)	HP EVA GL (3.028)) HP XL (5.031, 5.110, 6.0)	MSM 18/4 3.2(1a)
			Block I/O CA (Sync, Async)	HP XP128/1024, XP48/512, XP12000	3.2(2c) 3.2(3) 3.3(1c)
Cisco MDS IPS-8 Cisco MPS-14/2 Cisco MDS 9216i	See note <sup>1</sup> after this table.	FC-IP (IPSec/IKE)	Block I/O CA (Sync)	HP EVA GL (3.028)) HP XL (5.031, 5.110, 6.0)	4.1(1b)
			Block I/O CA (Sync, Async)	HP XP128/1024, XP48/512, XP12000	MDS9124e 3.1(2a) 3.1(3a) 3.2(1a) 3.2(2c) 3.2(3) 3.3(1c) 4.1(1b)  BDE 3.2.(3a) 3.3(1a) 3.3(1c)

1. Supported distance is determined by HP field personnel and professional services based on customer’s application requirements.

# Sun Microsystems<sup>1</sup>

Table 1-37 StorEdge 9970V

Operating System		Host Bus Adapter	Cisco Certified	Switch Fabric	
Type	Version				
Solaris	8, 9, 10	Sun: SG-XPCI1FC-QF2, SG-XPCI2FC-QF2, SG-XPCI1FC-EM2, SG-XPCI2FC-EM2	Yes	MDS9500 MDS9216 MDS9100 1.3(4a) 2.0(2b) 2.1(1b) 2.1(2b) 3.0(2a) 3.0(3) 3.1(3a) 3.2(1a) 3.2(2c) 3.3(1a) 4.1(1b)  MDS9216i 2.0(2b) 2.1(1b) 2.1(2b) 3.0(2a) 3.0(3) 3.1(3a) 3.2(1a) 3.2(2c) 3.3(1a) 4.1(1b)	MDS9134 MDS9124 MDS9222i MSM 18/4 3.2(1a) 3.2(2c) 3.3(1a) 4.1(1b)  MDS9020 2.1(2) 2.1(3)  GTY 3.2(3a) 3.3(1c)

1. Refer to the following link for the Sun Microsystems InterOp Tool:  
[https://extranet.stortek.com/interop/interop?cmd=search\\_matrix](https://extranet.stortek.com/interop/interop?cmd=search_matrix)

**Table 1-38 StorEdge T3+**

Operating System		Host Bus Adapter	Cisco Certified	Switch Fabric
Type	Version			
Solaris	8, 9, 10	Sun: SG-XPCI1FC-QF2, SG-XPCI2FC-QF2, SG-XPCI1FC-EM2, SG-XPCI2FC-EM2	Yes	MDS9500 MDS9216 MDS9100 1.3(4a) 2.0(2b) 2.1(1b) 2.1(2b) 3.0(2a) 3.1(3a)  MDS9216i 2.0(2b) 2.1(1b) 2.1(2b) 3.0(2a) 3.1(3a)  MDS9020 2.1(2)  GTY 3.2(3a)

Table 1-39 StorEdge FC Array A5200

Operating System		Host Bus Adapter	Cisco Certified	Switch Fabric
Type	Version			
Solaris	8, 9, 10	Sun: SG-XPCI1FC-QF2, SG-XPCI2FC-QF2, SG-XPCI1FC-EM2, SG-XPCI2FC-EM2	Yes	MDS9500 MDS9216 MDS9100 1.3(4a) 2.0(2b) 2.1(1b) 2.1(2b) 3.0(2a)  MDS9216i 2.0(2b) 2.1(1b) 2.1(2b) 3.0(2a)  MDS9020 2.1(2)

Table 1-40 StorEdge 6000

Operating System		Host Bus Adapter	Switch Fabric
Type	Version		
Solaris	8, 9, 10	Sun: SG-XPCI1FC-QF2, SG-XPCI2FC-QF2, SG-XPCI1FC-EM2, SG-XPCI2FC-EM2	MDS9500 MDS9216 MDS9100 MDS9216i 2.0(2b) 2.1(1b) 2.1(2b) 3.0(2a) 3.1(3a) 3.2(1a) 3.2(2c) 3.3(1a) 4.1(1b)  MDS9134 MDS9124 MDS9222i MSM 18/4 3.2(1a) 3.2(2c) 3.3(1a)  MDS9020 2.1(2) 2.1(3)  Get-To-Yes 3.2(3a)

Table 1-41 StorEdge 3000

Operating System		Host Bus Adapter	Cisco Certified	Switch Fabric
Type	Version			
Solaris	8, 9, 10	Sun: SG-XPCI1FC-QF2, SG-XPCI2FC-QF2, SG-XPCI1FC-EM2, SG-XPCI2FC-EM2	Yes	MDS9500 MDS9216 MDS9100 MDS9216i 2.0(2b) 2.1(1b) 2.1(2b) 3.0(2a) 3.1(3a) 3.2(1a) 3.2(2c) 3.3(1a) 4.1(1b)  MDS9134 MDS9124 MDS9222i MSM 18/4 3.2(1a) 3.2(2c) 3.3(1a) 4.1(1b)  MDS9020 2.1(2) 2.1(3)  Get-To-Yes 3.2(3a)

# NEC

**Table 1-42 S2300**

Operating System		Host Bus Adapter	Multipath	Switch Fabric
Type	Version			
Windows 2000	Advanced Server (SP3 or higher)	Emulex: LP952L	NEC SPS	MDS9500 MDS9216 MDS9216i
Windows 2003	Enterprise Server			
HPUX	11.0	HP: A6795A, A6826A	PvLinks	MDS9100 1.3(4a)
	11i			
Linux	RedHat AS2.1	Emulex: LP952L	No	3.1(1)
Solaris	8, 9	QLogic: QLA2310F	Veritas DMP	
AIX	5.1, 5.2	IBM: 6228, 6239	No	

**Table 1-43 S1300**

Operating System		Host Bus Adapter	Multipath	Switch Fabric
Type	Version			
Windows 2000	Advanced Server (SP3 or higher)	Emulex: LP952L	NEC SPS	MDS9500 MDS9216 MDS9216i
Windows 2003	Enterprise Server			
HPUX	11.0	HP: A6795A, A6826A	PvLinks	MDS9100 1.3(4a)
	11i			
Linux	RedHat AS2.1	Emulex: LP952L	No	3.1(1)
Solaris	8, 9	QLogic: QLA2310F	Veritas DMP	
AIX	5.1, 5.2	IBM: 6228, 6239	No	

**Table 1-44 S2800**

Operating System		Host Bus Adapter	Multipath	Switch Fabric
Type	Version			
Windows 2000	Advanced Server (SP3 or higher)	Emulex: LP952L	NEC SPS	MDS9500 MDS9216 MDS9216i
Windows 2003	Enterprise Server			
HPUX	11.0	HP: A6795A, A6826A	PvLinks	MDS9100 1.3(4a)
	11i			
Linux	RedHat AS2.1	Emulex: LP952L	No	3.1(1)
Solaris	8, 9	QLogic: QLA2310F	Veritas DMP	
AIX	5.1, 5.2	IBM: 6228, 6239	No	

**Table 1-45** D1-10, D3-10

Operating System		Host Bus Adapter	Multipath	Switch Fabric
Type	Version			
Windows 2003	Enterprise Server	Emulex: LP1150, LPe1150 QLogic: QLE2460, QLA2460	NEC Path Manager	MDS9124 3.1(2)
Linux	RedHat Enterprise	<b>Emulex:</b> LP1150, LPe1150 <b>QLogic:</b> QLA2460, QLE2460		

**Table 1-46** S2800 Distance Extension

Cisco Product	Protocol	RDR Sync.	RDR Async	Cisco Fabric
IP Service Module (IPS 8, IPS 4)	FC-IP	ver. 2.3.0	ver. 2.3.0	MDS9500
Cisco CWDM	FC			MDS9216
Cisco ONS				MDS9216i
				MDS9100
				1.3(4a)
				3.1(1)



# Fujitsu

Table 1-47 Eternus 2000

Operating System		Host Bus Adapter	Multipath	Switch Fabric
Type	Version			
Solaris	8, 9	<b>Emulex:</b> LP10000, LP10000DC, LP11000, LP11002, LPe11000, LPe11002 <b>QLogic:</b> QLA2340, QLA2342, QLA2460, QLA2462 <b>Fujitsu:</b> PW008FC2, PW008FC3, XSPFC211A, XSPFC212A, SE0X7F12F <b>Sun:</b> SG-XPCI1FC-QF4, SG-XPCI2FC-QF4, SG-XPCI1FC-QF, SG-XPCI1FC-QL2, SG-XPCI1FC-EM4, SG-XPCI2FC-EM4, SG-XPCI1FC-EM2, SG-XPCI2FC-EM2, SG-XPCIE1FC-EM4, SG-XPCIE1FC-QF4	MPxIO Solaris9:SFS4.4.14 Solaris8:SFS4.4.13 +Patch:119913-13 VERITAS5.0 MP1 (DMP) EMPD V2.0.3	MDS9500 MDS9216 MDS9216i MDS9120 MDS9124 3.2(3)
	10	<b>Fujitsu:</b> PW008FC2, PW008FC3, XSPFC211A, XSPFC212A, XSPFC401A, XSPFC402A, SE0X7F11F, SE0X7F12F <b>Emulex:</b> LP10000, LP10000DC, LP11000, LP11002, LPe11000, LPe11002 <b>QLogic:</b> QLA2340, QLA2342, QLA2460, QLA2462 <b>Sun:</b> SG-XPCIE1FC-EM4, SG-XPCIE2FC-EM4, SG-XPCI1FC-EM4, SG-XPCI2FC-EM4, SG-XPCI1FC-QF4, SG-XPCI2FC-QF4, SG-XPCI1FC-QF2, SG-XPCI1FC-QL2	MPxIO VERITAS5.0 MP1 (DMP) EMPD V2.0.3	
	x86 Solaris 10	<b>Sun:</b> SG-XPCI1FC-EM4, SG-XPCI2FC-EM4, SG-XPCIE1FC-EM4, SG-XPCIE2FC-EM4, SG-XPCI1FC-QF4, SG-XPCI2FC-QF4 <b>Emulex:</b> LP11000, LP11002, LPe11000, LPe11002 <b>QLogic:</b> QLA2460, QLA2462	MPxIO	
HPUX	11iv2	<b>HP:</b> AB378A, AB379A, A6826A, A6795A	PvLinks VERITAS5.0 MP1 (DMP)	
	11iv3	<b>HP:</b> AB378A, AB379A, A6826A, A6795A, AB378B, AD193A, AD300A	PvLinks	
AIX	5.2, 5.3	<b>IBM:</b> 1905, 1910	VERITAS5.0 MP1 (DMP) MPIO2.0.0	
Windows 2003	Standard Edition, Standard Edition SP1, Standard, Edition SP2, R2 Standard Edition, R2 Standard, Edition SP2 Enterprise Edition, Enterprise Edition SP1, Enterprise Edition SP2, R2 Enterprise Edition SP1, R2 Enterprise Edition SP2, (IA-32) Standard x64 Edition, Enterprise x64 Edition	<b>Fujitsu:</b> PG-FC107, PG-FCD101, PG-FCD102, PG-FCD201, PG-FC201, PG-FC202 <b>Emulex:</b> LP10000, LP10000DC, LP1050, LP1050DC, LP1050Ex, LP10000ExDC, LP11000, LP11002, LP1150, LPe11000, LPe11002, LPe1150 <b>Qlogic:</b> QLA2460, QLA2462, QLE2460, QLE2462, QLE2464	EMPD V2.0L11	

Table 1-47 Eternus 2000 (continued)

Operating System		Host Bus Adapter	Multipath	Switch Fabric
Type	Version			
Windows 2003	Enterprise Edition for Itanium-based Systems	<b>Fujitsu</b> : MC-08FC11, MC-08FC71, MC-08FC31, MC-08FC41, MC-08FC51, MC-08FC61,	EMPD V2.0L14	MDS9500 MDS9216
Windows 2000	Server, Advanced Server SP4	<b>Emulex</b> : LP10000, LP10000DC, LP1050, LP1050DC, LP1050Ex, LP10000ExDC, LP11000, LP11002, LP1150, LPe11000, LPe11002, LPe1150, <b>Qlogic</b> : QLA2460, QLA2462, QLE2460, QLE2462, QLE2464		MDS9216i MDS9120 MDS9124 3.2(3)
Linux	Red Hat Enterprise Linux AS , v.3 for x86	<b>Fujitsu</b> : PG-FC107, PG-FC201, PG-FCD101, PG-FCD102	GRMPD V1.0L04	
	Red Hat Enterprise Linux ES, v.3 for x86	<b>Emulex</b> : LP10000, LP10000DC, LP1050, LP1050DC, LP1050Ex, LP10000ExDC		
	Red Hat Enterprise Linux AS , v.4 for x86	<b>Fujitsu</b> : PG-FC107, PG-FCD101, PG-FCD102, PG-FC201, PG-FC202, PG-FCD201,	EMPD V2.0L11	
	Red Hat Enterprise Linux ES, v.4 for x86	<b>Emulex</b> : LP10000, LP10000DC, LP1050, LP1050DC, LP1050Ex, LP10000ExDC, LP11000, LP11002, LP1150, LPe11000, LPe11002, LPe1150 <b>Qlogic</b> : QLA2340, QLA2342, QLA2344, QLE2360, QLE2362, QLA2460, QLA2462, QLE2460, QLE2462		
	Red Hat Enterprise Linux AS v.4 for EM64T	<b>Fujitsu</b> : PG-FC107, PG-FCD101, PG-FCD102, PG-FC201, PG-FC202, PG-FCD201	EMPD V2.0L11	
	Red Hat Enterprise Linux ES v.4 for EM64T	<b>Emulex</b> : LP10000, LP10000DC, LP1050, LP1050DC, LP1050Ex, LP10000ExDC, LP11000, LP11002, LP1150, LPe11000, LPe11002, LPe1150 <b>Qlogic</b> : QLA2340, QLA2342, QLA2344, QLE2360, QLE2362	VERITAS5.0 MP1 (DMP)	
	Red Hat Enterprise Linux AS v.4 for Itanium	<b>Fujitsu</b> : MC-08FC11, MC-08FC31, MC-08FC41, MC-08FC51, MC-08FC61, MC-08FC71	EMPD V2.0L11	
	Red Hat Enterprise Linux ES v.4 for Itanium			
Red Hat Enterprise Linux 5 for x86	<b>Fujitsu</b> : PG-FC107, PG-FCD101, PG-FCD102, PG-FC201, PG-FC202, PG-FCD201 <b>Emulex</b> : LP10000, LP10000DC, LP1050, LP1050DC, LP1050Ex, LP10000ExDC, LP11000, LP11002, LP1150, LPe11000, LPe11002, LPe1150 <b>Qlogic</b> : QLA2340, QLA2342, QLA2344, QLE2360, QLE2362	EMPD V2.0L11  DeviceMapper		
Red Hat Enterprise Linux 5 for Intel64	<b>Fujitsu</b> : PG-FC107, PG-FCD101, PG-FCD102, PG-FC201, PG-FC202, PG-FCD201, <b>Emulex</b> : LP10000, LP10000DC, LP1050, LP1050DC, LP1050Ex, LP10000ExDC, LP11000, LP11002, LP1150, LPe11000, LPe11002, LPe1150 <b>Qlogic</b> : QLA2340, QLA2342, QLA2344, QLE2360, QLE2362	EMPD V2.0L11  DeviceMapper		
Red Hat Enterprise Linux 5 for Itanium	<b>Fujitsu</b> : MC-08FC11, MC-08FC31, MC-08FC41, MC-08FC51, MC-08FC61, MC-08FC71	EMPD V2.0L11		
SuSE Linux Enterprise Server 9 EM64T	<b>Emulex</b> LP11000/LP11002/LP1150/LPe11000/, LPe11002/LPe1150 <b>Qlogic</b> QLA2460/QLA2462/QLE2460/, QLE2462/QLE2464	VERITAS5.0 MP1 (DMP)		

Table 1-47 Eternus 2000 (continued)

Operating System		Host Bus Adapter	Multipath	Switch Fabric
Type	Version			
Linux	SuSE Linux Enterprise Server 10 x86	Emulex LP11000/LP11002/LP1150/LPe11000/ LPe11002/LPe1150 Qlogic QLA2460/QLA2462/QLE2460/ QLE2462/QLE2464	EMPD V2.0L12 DeviceMapper	MDS9500 MDS9216 MDS9216i MDS9120
	SuSE Linux Enterprise Server 10 EM64T	Emulex LP11000/LP11002/LP1150/LPe11000/ LPe11002/LPe1150 Qlogic QLA2460/QLA2462/QLE2460/ QLE2462/QLE2464	EMPD V2.0L12 DeviceMapper	MDS9124 3.2(3)
	SuSE Linux Enterprise Server 10Itanium	Emulex LP11000/LP11002/LP1150/LPe11000/ LPe11002/LPe1150	EMPD V2.0L12	
Vmware Infrastructure	3.0.1, 3.0.2, 3.5	Fujitsu : PG-FC107, PG-FCD101, PG-FCD102, PG-FC201, PG-FC202, PG-FCD201 Emulex : LP10000, LP1050, LP1050Ex, LP11000, LP1150, LPe1150 Qlogic : QLA2340, QLA2342, QLA2460, QLE2462	Vmware	

Table 1-48 Eternus 3000

Operating System		Host Bus Adapter	Multipath	Switch Fabric
Type	Version			
Windows 2000	Advanced Server (SP4)	<b>Emulex:</b> LP9802, LP10000	GRMPD	MDS9500
Windows 2003	Enterprise Server	<b>QLogic:</b> QLA2342		MDS9216
HPUX	11.0	<b>HP:</b> A6795A, A6826A	PvLinks	MDS9216i
	11i			MDS9120
Linux	RedHat AS2.1, 3.0	<b>QLogic:</b> QLA2342 <b>Emulex:</b> LP9002	No	2.0(3) 3.1(1)
Solaris	8, 9	<b>Emulex:</b> LP9802, LP10000	Veritas DMP	
AIX	5.3, 5.2	<b>IBM:</b> 6228, 6239	No	
		<b>Cambex:</b> P2000LC	DPF	

Table 1-49 Eternus 6000

Operating System		Host Bus Adapter	Multipath	Switch Fabric
Type	Version			
Windows 2000	Advanced Server (SP4)	Emulex: LP9802, LP10000	GRMPD	MDS9500
Windows 2003	Enterprise Server	QLogic: QLA2342		MDS9216
HPUX	11.0	HP: A6795A, A6826A	PvLinks	MDS9216i
	11i			MDS9120
Linux	RedHat AS2.1, 3.0	QLogic: QLA2342	No	2.0(3)
		Emulex: LP9002		3.1(1)
Solaris	8, 9	Emulex: LP9802, LP10000	Veritas DMP	
AIX	5.3, 5.2	IBM: 6228, 6239	No	
		Cambex: P2000LC	DPF	

Table 1-50 Eternus 4000

Operating System		Host Bus Adapter	Multipath	Switch Fabric
Type	Version			
Windows 2000	Advanced Server (SP4)	<b>Fujitsu</b> : PG-FC105, PG-FC106, PG-FC107, PG-FCD101, PG-FCD102, PG-FCD201, PG-FC201, PG-FC202 <b>Emulex</b> : LP9002L, LP9002DC, LP952L, LP9802, LP9802DC, LP982, LP10000, LP10000DC, LP1050, LP1050DC, LP1050Ex, LP10000ExDC, LP11000, LP11002, LP1150, LPe11000, LPe11002, LPe1150 <b>QLogic</b> : QLA2340, QLA2342, QLE2360, QLE2362, QLE2364, QLA2460, QLA2462, QLE2460, QLE2462, QLE2464	EMPD V2.0L12	MDS9509 MDS9506 MDS9216 MDS9124 3.2.(3)
Windows 2003	Standard Edition, SP1, SP2 R2 Standard Edition, SP2 Enterprise Edition, SP1, SP2 R2 Enterprise Edition SP1, SP2 R2 Enterprise Edition SP2 (IA-32)	<b>Fujitsu</b> : PG-FC105, PG-FC106, PG-FC107, PG-FCD101, PG-FCD102, PG-FCD201, PG-FC201, PG-FC202 <b>Emulex</b> : LP9002L, LP9002DC, LP952L, LP9802, LP9802DC, LP982, LP10000, LP10000DC, LP1050, LP1050DC, LP1050Ex, LP10000ExDC, LP11000, LP11002, LP1150, LPe11000, LPe11002, LPe1150 <b>QLogic</b> : QLA2340, QLA2342, QLE2360, QLE2362, QLE2364, QLA2460, QLA2462, QLE2460, QLE2462, QLE2464	EMPD V2.0L03	
	Standard x64 Edition Enterprise x64 Edition	<b>Fujitsu</b> : PG-FC106, PG-FC107, PG-FCD101, PG-FCD102, PG-FCD201, PG-FC201, PG-FC202 <b>Emulex</b> : LP9002L, LP9002DC, LP952L, LP9802, LP9802DC, LP982, LP10000, LP10000DC, LP1050, LP1050DC, LP1050Ex, LP10000ExDC, LP11000, LP11002, LP1150, LPe11000, LPe11002, LPe1150 <b>QLogic</b> : QLA2340, QLA2342, QLE2360, QLE2362, QLE2364, QLA2460, QLA2462, QLE2460, QLE2462, QLE2464		
	Enterprise Edition Datacenter Edition for Itanium-based Systems	<b>Fujitsu</b> : MC-08FC11, MC-08FC31, MC-08FC41, MC-08FC51, MC-08FC61, MC-08FC71 <b>Emulex</b> : LP10000, LP10000DC, LP1050, LP1050DC, LP1050Ex, LP10000ExDC, LP11000, LP11002, LP1150, LPe11000, LPe11002, LPe1150		
Linux	Red Hat Enterprise Linux AS v.3 for x86 Red Hat Enterprise Linux ES v.3 or x86 Red Hat Enterprise Linux AS v.4 for x86 Red Hat Enterprise Linux ES v.4 for x86	<b>Fujitsu</b> : PG-FC106, PG-FC107, PG-FC201, PG-FC202, PG-FCD101, PG-FCD102, PG-FCD201 <b>Emulex</b> : LP9802, LP9802DC, LP982, LP10000, LP10000DC, LP1050, LP1050DC, LP1050Ex, LP10000ExDC, LP11000, LP11002, LP1150, LPe11000, LPe11002, LPe1150 <b>QLogic</b> : QLA2340, QLA2342, QLE2360, QLE2362, QLE2364, QLA2460, QLA2462, QLE2460, QLE2462, QLE2464		

Table 1-50 Eternus 4000

Operating System		Host Bus Adapter	Multipath	Switch Fabric
Type	Version			
Linux	Red Hat Enterprise Linux AS v4 for EM64T	Fujitsu : PG-FC106, PG-FC107, PG-FC201, PG-FC202, PG-FCD101, PG-FCD102, PG-FCD201	EMPD V2.0L03	MDS9509 MDS9506 MDS9216 MDS9124 3.2.(3)
	Red Hat Enterprise Linux ES v4 for EM64T	Emulex : LP9802, LP9802DC, LP982LP10000, LP10000DC, LP1050, LP1050DC, LP1050Ex, LP10000ExDC, LP11000, LP11002, LP1150, LPe11000, LPe11002, LPe1150 QLogic : QLA2340, QLA2342, QLE2360, QLE2362, QLE2364, QLA2460, QLA2462, QLE2460, QLE2462, QLE2464		
	Red Hat Enterprise Linux AS v4 for Itanium	Fujitsu : MC-08FC11, MC-08FC31, MC-08FC41, MC-08FC51, MC-08FC61, MC-08FC71	EMPD V2.0L11	
	Red Hat Enterprise Linux ES v4 for Itanium			
	Red Hat Enterprise Linux 5 for x86	Fujitsu : PG-FC107, PG-FCD101, PG-FCD102, PG-FCD201, PG-FC201, PG-FC202	EMPD V2.0L10	
	Red Hat Enterprise Linux 5, for Intel64	Emulex : LP10000, LP10000DC, LP1050, LP1050DC, LP1050Ex, LP10000ExDC, LP11000, LP11002, LP1150, LPe11000, LPe11002, LPe1150 QLogic : QLA2340, QLA2342, QLE2360, QLE2362, QLE2364, QLA2460, QLA2462, QLE2460, QLE2462, QLE2464		
	Red Hat Enterprise Linux 5 for Itanium	Fujitsu : MC-08FC11, MC-08FC31, MC-08FC41, MC-08FC51, MC-08FC61, MC-08FC71		
	SuSE Linux Enterprise Server 8 (x86)	QLogic : QLA2340, QLA2342, QLE2360, QLE2362, QLE2364, QLA2460, QLA2462, QLE2460, QLE2462, QLE2464	EMPD V2.0L10	
	SuSE Linux Enterprise Server 9 (x86)			
	SuSE Linux Enterprise Server 8 (EM64T)			
SuSE Linux Enterprise Server 9 (EM64T)	Fujitsu : MC-08FC11, MC-08FC41 Emulex : LP10000, LP10000DC, LP1050, LP1050DC, LP1050Ex, LP10000ExDC, LP11000, LP11002, LP1150, LPe11000, LPe11002, LPe1150 QLogic : QLA2340, QLA2342, QLE2360, QLE2362, QLE2364, QLA2460, QLA2462, QLE2460, QLE2462, QLE2464	EMPD V2.0L10		
SuSE Linux Enterprise Server 9 (Itanium)				
SuSE Linux Enterprise Server 10 (x86)	Emulex : LP11000, LP11002, LP1150, LPe11000, LPe11002, LPe1150 QLogic : QLA2460, QLA2462, QLE2460, QLE2462, QLE2464	DeviceMapper		
SuSE Linux Enterprise Server 10 (EM64T)				

Table 1-50 Eternus 4000

Operating System		Host Bus Adapter	Multipath	Switch Fabric
Type	Version			
VMware Infrastructure	3.0.0, 3.0.1, 3.0.2, 3.5	Fujitsu : PG-FC106, PG-FC107, PG-FC201, PG-FC202, PG-FCD201, PG-FCD101, PG-FCD102 Emulex : LP9802, LP1050, LP1050Ex, LP10000, LP10000DC, LP1150, LP11000, LP11002, LPe11150, LPe11000, LPe11002 Qlogic : QLA2340, QLA2342, QLA2460, QLE2462	Vmware	MDS9509 MDS9506 MDS9216 MDS9124 3.2.(3)
VMware ESX Server	2.5.3, 2.5.4	Fujitsu : PG-FC106, PG-FC107, PG-FC201, PG-FCD101, PG-FCD102 Emulex : LP9802, LP1050, LP1050Ex, LP10000, LP10000DC Qlogic : QLA2340, QLA2342		
Solaris	8, 9	Fujitsu : GP7B8FC1, PW008FC2, PW008FC3, XSPFC211A, XSPFC212A Net Marks : PW008FC2-NM Emulex : LP10000, LP10000DC, LP11000, LP11002, LPe11000, LPe11002 QLogic : QLA2340, QLA2342, QLA2460, QLA2462 Sun : SG-XPCI1FC-QF2, SG-XPCI1FC-QL2, SG-XPCI2FC-QF2, SG-XPCI2FC-QF2-Z, SG-XPCI1FC-EM2, SG-XPCI2FC-EM2, SG-XPCIE1FC-EM4, SG-XPCIE2FC-EM4, SG-XPCI1FC-EM4, SG-XPCI2FC-EM4, SG-XPCI1FC-QF4, SG-XPCI2FC-QF4, SG-XPCIE1FC-QF4, SG-XPCIE2FC-QF4		
Solaris	10	<b>Fujitsu</b> : GP7B8FC1, PW008FC2, PW008FC3, XSPFC211A, XSPFC212A, SE0X7F11F, SE0X7F12F, XSPFC401A, XSPFC402A <b>Net Marks</b> : PW008FC2-NM <b>Emulex</b> : LP10000, LP10000DC, LP11000, LP11002, LPe11000, LPe11002 <b>QLogic</b> : QLA2340, QLA2342, QLA2460, QLA2462 <b>Sun</b> : SG-XPCI1FC-QF2, SG-XPCI1FC-QL2, SG-XPCI2FC-QF2, SG-XPCI2FC-QF2-Z, SG-XPCI1FC-EM2, SG-XPCI2FC-EM2, SG-XPCIE1FC-EM4, SG-XPCIE2FC-EM4, SG-XPCI1FC-EM4, SG-XPCI2FC-EM4, SG-XPCI1FC-QF4, SG-XPCI2FC-QF4, SG-XPCIE1FC-QF4, SG-XPCIE2FC-QF4	MPxIO VERITAS.5.0 MP1 (DMP)  EMPD V2.0.3	
	x86 Solaris 10 OS	<b>Sun</b> : SG-XPCI1FC-EM4, SG-XPCI2FC-EM4, SG-XPCIE1FC-EM4, SG-XPCIE2FC-EM4, SG-XPCI1FC-QF4, SG-XPCI2FC-QF4 <b>Emulex</b> : LP11000, LP11002, LPe11000, LPe11002 <b>QLogic</b> : QLA2460, QLA2462	MPxIO	

Table 1-50 Eternus 4000

Operating System		Host Bus Adapter	Multipath	Switch Fabric
Type	Version			
HPUX	11iv1	HP : A6826A, AB378A	PV-Links	MDS9509
	11iv2	HP : A6826A, A6795A, A9782A, A9784A, AB378A, AB378B, AB379A, AB465A , AB378B,AD193A,AD300A,AD299A,AD355A	PV-Links(2007) VERITAS4.1 MP1 (DMP)  VERITAS5.0 MP1 (DMP)	MDS9506 MDS9216 MDS9124 3.2.(3)
	11iv3	HP : AB378A, AB379A, A6826A, A6795A, AB378B,AD193A,AD300A	Native Multipathing  PV-Links	
AIX	5.2, 5.3	IBM : 5716, 1977, 5758, 1905, 5759, 1910, 6239, 6228	MPIO2.0.0 VERITAS4.0 MP1 (DMP) VERITAS5.0 MP1 (DMP)	



Table 1-51 Eternus 8000

Operating System		Host Bus Adapter	Multipath	Switch Fabric
Type	Version			
Windows 2000	Advanced Server (SP4)	<b>Fujitsu</b> : PG-FC105, PG-FC106, PG-FC107, PG-FCD101, PG-FCD102, PG-FCD201, PG-FC201, PG-FC202 <b>Emulex</b> : LP9002L, LP9002DC, LP952L, LP9802, LP9802DC, LP982, LP10000, LP10000DC, LP1050, LP1050DC, LP1050Ex, LP10000ExDC, LP11000, LP11002, LP1150, LPe11000, LPe11002, LPe1150 <b>QLogic</b> : QLA2340, QLA2342, QLE2360, QLE2362, QLE2364, QLA2460, QLA2462, QLE2460, QLE2462, QLE2464	EMPD V2.0L12	MDS9509 MDS9506 MDS9216 MDS9124 3.2.(3)
Windows 2003	Standard Edition, SP1, SP2 R2 Standard Edition, SP2 Enterprise Edition, SP1, SP2 R2 Enterprise Edition SP1, SP2 R2 Enterprise Edition SP2 (IA-32)	<b>Fujitsu</b> : PG-FC105, PG-FC106, PG-FC107, PG-FCD101, PG-FCD102, PG-FCD201, PG-FC201, PG-FC202 <b>Emulex</b> : LP9002L, LP9002DC, LP952L, LP9802, LP9802DC, LP982, LP10000, LP10000DC, LP1050, LP1050DC, LP1050Ex, LP10000ExDC, LP11000, LP11002, LP1150, LPe11000, LPe11002, LPe1150 <b>QLogic</b> : QLA2340, QLA2342, QLE2360, QLE2362, QLE2364, QLA2460, QLA2462, QLE2460, QLE2462, QLE2464	EMPD V2.0L03	
	Standard x64 Edition Enterprise x64 Edition	<b>Fujitsu</b> : PG-FC106, PG-FC107, PG-FCD101, PG-FCD102, PG-FCD201, PG-FC201, PG-FC202 <b>Emulex</b> : LP9002L, LP9002DC, LP952L, LP9802, LP9802DC, LP982, LP10000, LP10000DC, LP1050, LP1050DC, LP1050Ex, LP10000ExDC, LP11000, LP11002, LP1150, LPe11000, LPe11002, LPe1150 <b>QLogic</b> : QLA2340, QLA2342, QLE2360, QLE2362, QLE2364, QLA2460, QLA2462, QLE2460, QLE2462, QLE2464		
	Enterprise Edition Datacenter Edition for Itanium-based Systems	<b>Fujitsu</b> : MC-08FC11, MC-08FC31, MC-08FC41, MC-08FC51, MC-08FC61, MC-08FC71 <b>Emulex</b> : LP10000, LP10000DC, LP1050, LP1050DC, LP1050Ex, LP10000ExDC, LP11000, LP11002, LP1150, LPe11000, LPe11002, LPe1150		
Linux	Red Hat Enterprise Linux AS v.3 for x86 Red Hat Enterprise Linux ES v.3 or x86 Red Hat Enterprise Linux AS v.4 for x86 Red Hat Enterprise Linux ES v.4 for x86	<b>Fujitsu</b> : PG-FC106, PG-FC107, PG-FC201, PG-FC202, PG-FCD101, PG-FCD102, PG-FCD201 <b>Emulex</b> : LP9802, LP9802DC, LP982, LP10000, LP10000DC, LP1050, LP1050DC, LP1050Ex, LP10000ExDC, LP11000, LP11002, LP1150, LPe11000, LPe11002, LPe1150 <b>QLogic</b> : QLA2340, QLA2342, QLE2360, QLE2362, QLE2364, QLA2460, QLA2462, QLE2460, QLE2462, QLE2464		

Table 1-51 Eternus 8000 (continued)

Operating System		Host Bus Adapter	Multipath	Switch Fabric
Type	Version			
Linux	Red Hat Enterprise Linux AS v4 for EM64T	Fujitsu : PG-FC106, PG-FC107, PG-FC201, PG-FC202, PG-FCD101, PG-FCD102, PG-FCD201	EMPD V2.0L03	MDS9509 MDS9506 MDS9216 MDS9124 3.2.(3)
	Red Hat Enterprise Linux ES v4 for EM64T	Emulex : LP9802, LP9802DC, LP982LP10000, LP10000DC, LP1050, LP1050DC, LP1050Ex, LP10000ExDC, LP11000, LP11002, LP1150, LPe11000, LPe11002, LPe1150 QLogic : QLA2340, QLA2342, QLE2360, QLE2362, QLE2364, QLA2460, QLA2462, QLE2460, QLE2462, QLE2464		
	Red Hat Enterprise Linux AS v4 for Itanium	Fujitsu : MC-08FC11, MC-08FC31, MC-08FC41, MC-08FC51, MC-08FC61, MC-08FC71	EMPD V2.0L11	
	Red Hat Enterprise Linux ES v4 for Itanium			
	Red Hat Enterprise Linux 5 for x86	Fujitsu : PG-FC107, PG-FCD101, PG-FCD102, PG-FCD201, PG-FC201, PG-FC202	EMPD V2.0L11	
	Red Hat Enterprise Linux 5, for Intel64	Emulex : LP10000, LP10000DC, LP1050, LP1050DC, LP1050Ex, LP10000ExDC, LP11000, LP11002, LP1150, LPe11000, LPe11002, LPe1150 QLogic : QLA2340, QLA2342, QLE2360, QLE2362, QLE2364, QLA2460, QLA2462, QLE2460, QLE2462, QLE2464		
	Red Hat Enterprise Linux 5 for Itanium	Fujitsu : MC-08FC11, MC-08FC31, MC-08FC41, MC-08FC51, MC-08FC61, MC-08FC71	EMPD V2.0L10	
	SuSE Linux Enterprise Server 8 (x86)	QLogic : QLA2340, QLA2342, QLE2360, QLE2362, QLE2364, QLA2460, QLA2462, QLE2460, QLE2462, QLE2464		
	SuSE Linux Enterprise Server 9 (x86)			
	SuSE Linux Enterprise Server 8 (EM64T)	Fujitsu : MC-08FC11, MC-08FC41 Emulex : LP10000, LP10000DC, LP1050, LP1050DC, LP1050Ex, LP10000ExDC, LP11000, LP11002, LP1150, LPe11000, LPe11002, LPe1150 QLogic : QLA2340, QLA2342, QLE2360, QLE2362, QLE2364, QLA2460, QLA2462, QLE2460, QLE2462, QLE2464	DeviceMapper	
SuSE Linux Enterprise Server 9 (EM64T)				
SuSE Linux Enterprise Server 9 (Itanium)	Emulex : LP11000, LP11002, LP1150, LPe11000, LPe11002, LPe1150 QLogic : QLA2460, QLA2462, QLE2460, QLE2462, QLE2464	DeviceMapper		
SuSE Linux Enterprise Server 10 (x86)				
SuSE Linux Enterprise Server 10 (EM64T)				

Table 1-51 Eternus 8000 (continued)

Operating System		Host Bus Adapter	Multipath	Switch Fabric
Type	Version			
VMware Infrastructure	3.0.0, 3.0.1, 3.0.2, 3.5	Fujitsu : PG-FC106, PG-FC107, PG-FC201, PG-FC202, PG-FCD201, PG-FCD101, PG-FCD102 Emulex : LP9802, LP1050, LP1050Ex, LP10000, LP10000DC, LP1150, LP11000, LP11002, LPe11150, LPe11000, LPe11002 Qlogic : QLA2340, QLA2342, QLA2460, QLE2462	Vmware	MDS9509 MDS9506 MDS9216 MDS9124 3.2.(3)
VMware ESX Server	2.5.3, 2.5.4	Fujitsu : PG-FC106, PG-FC107, PG-FC201, PG-FCD101, PG-FCD102 Emulex : LP9802, LP1050, LP1050Ex, LP10000, LP10000DC Qlogic : QLA2340, QLA2342		
Solaris	8, 9	Fujitsu : GP7B8FC1, PW008FC2, PW008FC3, XSPFC211A, XSPFC212A Net Marks : PW008FC2-NM Emulex : LP10000, LP10000DC, LP11000, LP11002, LPe11000, LPe11002 QLogic : QLA2340, QLA2342, QLA2460, QLA2462 Sun : SG-XPCI1FC-QF2, SG-XPCI1FC-QL2, SG-XPCI2FC-QF2, SG-XPCI2FC-QF2-Z, SG-XPCI1FC-EM2, SG-XPCI2FC-EM2, SG-XPCIE1FC-EM4, SG-XPCIE2FC-EM4, SG-XPCI1FC-EM4, SG-XPCI2FC-EM4, SG-XPCI1FC-QF4, SG-XPCI2FC-QF4, SG-XPCIE1FC-QF4, SG-XPCIE2FC-QF4		
Solaris	10	<b>Fujitsu</b> : GP7B8FC1, PW008FC2, PW008FC3, XSPFC211A, XSPFC212A, SE0X7F11F, SE0X7F12F, XSPFC401A, XSPFC402A <b>Net Marks</b> : PW008FC2-NM <b>Emulex</b> : LP10000, LP10000DC, LP11000, LP11002, LPe11000, LPe11002 <b>QLogic</b> : QLA2340, QLA2342, QLA2460, QLA2462 <b>Sun</b> : SG-XPCI1FC-QF2, SG-XPCI1FC-QL2, SG-XPCI2FC-QF2, SG-XPCI2FC-QF2-Z, SG-XPCI1FC-EM2, SG-XPCI2FC-EM2, SG-XPCIE1FC-EM4, SG-XPCIE2FC-EM4, SG-XPCI1FC-EM4, SG-XPCI2FC-EM4, SG-XPCI1FC-QF4, SG-XPCI2FC-QF4, SG-XPCIE1FC-QF4, SG-XPCIE2FC-QF4	MPxIO VERITAS.5.0 MP1 (DMP)  EMPD V2.0.3	
	x86 Solaris 10 OS	<b>Sun</b> : SG-XPCI1FC-EM4, SG-XPCI2FC-EM4, SG-XPCIE1FC-EM4, SG-XPCIE2FC-EM4, SG-XPCI1FC-QF4, SG-XPCI2FC-QF4 <b>Emulex</b> : LP11000, LP11002, LPe11000, LPe11002 <b>QLogic</b> : QLA2460, QLA2462	MPxIO	

Table 1-51 Eternus 8000 (continued)

Operating System		Host Bus Adapter	Multipath	Switch Fabric
Type	Version			
HPUX	11iv1	HP : A6826A, AB378A	PV-Links	MDS9509
	11iv2	HP : A6826A, A6795A, A9782A, A9784A, AB378A, AB378B, AB379A, AB465A, AB378B, AD193A, AD300A, AD299A, AD355A	PV-Links(2007) VERITAS4.1 MP1 (DMP)  VERITAS5.0 MP1 (DMP)	MDS9506 MDS9216 MDS9124 3.2.(3)
	11iv3	HP : AB378A, AB379A, A6826A, A6795A, AB378B, AD193A, AD300A	Native Multipathing  PV-Links	
AIX	5.2, 5.3	IBM : 5716, 1977, 5758, 1905, 5759, 1910, 6239, 6228	MPIO2.0.0 VERITAS4.0 MP1 (DMP) VERITAS5.0 MP1 (DMP)	

# ADTX

**Table 1-52**      *ArrayMasStor L*

Operating System		Host Bus Adapter	Multipath	Switch Fabric
Type	Version			
Windows 2000	Advanced Server (SP4)	Emulex: LP9802	Path Cruiser	MDS9500
Windows 2003	Enterprise Server	QLogic: QLA2340		MDS9216
Linux	RedHat 7.1.14-3	<b>Emulex:</b> LP9802	No	MDS9216i
Solaris	8, 9	<b>Sun:</b> SG-XPCI1FC-QF2	Veritas DMP	MDS9100 2.0(2b) 2.1(1b)

# Infotrend

**Table 1-53 EonStor F16F-R2A2**

Operating System		Host Bus Adapter	Multipath	Switch Fabric
Type	Version			
Windows 2000	Advanced Server (SP4)	Emulex: LP9002, LP9802	No	MDS9500
Windows 2003	Enterprise Server	<b>Emulex:</b> LP1050DC		MDS9216
Linux	RedHat 8.0	<b>Emulex:</b> LP9002, 9802 <b>QLogic:</b> QLA2310		MDS9100 MDS9216i 2.1(1b) 2.1(2b) 3.0(3)

**Table 1-54 EonStor 2510FS**

Operating System		Host Bus Adapter	Multipath	Switch Fabric
Type	Version			
Windows 2000	Advanced Server (SP4)	Emulex: LP9002, LP9802	No	MDS9500
Windows 2003	Enterprise Server	<b>Emulex:</b> LP1050DC		MDS9216
Linux	RedHat 8.0	<b>Emulex:</b> LP9002, 9802 <b>QLogic:</b> QLA2310		MDS9100 MDS9216i 2.1(1b) 2.1(2b) 3.0(3)

# 3PAR

**Table 1-55 3Par InServ Storage Server**

Qualified Operating System		Host Bus Adapter	Switch Fabric
Type	Version		
Windows 2000	SP4 x86 x64	<b>QLogic:</b> QLA2310F(L), QLA2340(L), QLA2342(L), QLA2344, QLA2350, QLA2352, QLE2360, QLE2362, 26K4859, 26K4841, 300874-B21, 361426-B21 381881-B21, 354054-B21, QLA2440, QLA2460, QLA2462, QLE2440, QLE2460, QLE2462, QLE2464, 26R0890, 26R0884, 41Y8527, 39Y9306, 403619-B21, 341-3574	MDS9500
Windows 2003	SP1, SP2, R2 SP1, R2 SP2 x86 x64 IA64		MDS9200
Windows 2008	x86 x64 IA64		MDS9216i
Linux RH	RHEL 3, RHEL 4, RHEL 5	<b>Emulex:</b> LP952L, LP982, LP9002(L,DC), LP9402DC, LP9802(DC), LP10000(DC,ExDC), LP1050 (DC), 394757-B21, LP(e)1150, LP(e)11000, LP(e)11002, 39Y9186, 43W6859, 403621-B21, 341-3575	MDS9124
Linux SUSE	SLES 9, SLES 10		MDS9134
AIX	5.1	<b>IBM:</b> 6228, 6239	MDS9100
	5.2		2.1(1a)
	AIX 5.3, AIX 6.1, IBM Virtual I/O Server		2.1(x)
OnStor	EverON 2.2.x, 3.0.x, 3.1.x	Included in EverON	3.0(x)
HP-UX	11i v1, 11iv2, 11iv3	<b>HP:</b> 6795A 6826A 9782A 9784A AB465A AB378 AB379 AD193A AD194A A6795A	3.1(x)
Tru64	5.1b		3.2(x)
Egenera	PAN Manager 5.0, 5.1	Egenera supplied	3.3(1)
VMware ESX	ESX 3.0, 3.0.x, 3.5, 3i	All QLogic and Emulex fibre channel HBAs supported by VMware (excluding: 8Gbs HBA's)	
NetApp	ONTAP 7.2.2, 7.2.3, 7.2.4, 7.2.5	Included in ONTAP O/S	
Incipient iNSP	1.1	N/A	
Data Domain O/S	4.3, 4.4, 4.5	Data Domain supplied	

Table 1-56 3Par InServ Storage Server

Qualified Operating System		Host Bus Adapter	Switch Fabric
Type	Version		
Solaris	8, 9, 10 SPARC	Sun StorageTek: X6799A, X6727A, SG-XPCI1FC-QF2(QL2), SG-XPCI2FC-QF2(QF2-Z), SG-XPCI1FC-EM2, SG-XPCI2FC-EM2, SG-XPCI1FC-EM4-Z, SG-XPCI2FC-EM4-Z, SG-XPCIE1FC-EM4, SG-XPCIE2FC-EM4, SG-XPCI1FC-QF4, SG-XPCIE1FC-QF4, SG-XPCIE2FC-QF4  Emulex: LP9002S, LP9002L, LP9002DC, LP9802, LP10000, LP10000DC, LP10000ExDC, LP11000, LP11002  QLogic: QLA2300F, QLA2302F, QLA2310F(L), QLA2340(L), QLA2342(L), QLA2344, QLA2460, QLA2462	
	10 x86, x64	Sun StorageTek: X6799A,X6727A,SG-XPCI1FC-QF2(QL2), SG-XPCI2FC-QF2(QF2-Z), SG-XPCI1FC-EM2, SG-XPCI2FC-EM2, SG-XPCI1FC-EM4-Z, SG-XPCI2FC-EM4-Z, SG-XPCIE1FC-EM4, SG-XPCIE2FC-EM4, SG-XPCI1FC-QF4, SG-XPCIE1FC-QF4, SG-XPCIE2FC-QF4,  QLogic: QLA2340(L)	



# XIOtech

**Table 1-57** *Magnitude (Rel. 10.01/11.01), Magnitude 3D (Rel. 2.5/3.13), Magnitude 3D 3000 (Rel 4.1)*

Operating System		Host Bus Adapter	Switch Fabric	
Type	Version			
Windows 2000	Advanced Server (SP4)	<b>QLogic:</b> QLA2340, QLA2310, QLA2200	MDS9500	MDS9222i
Windows 2003	Standard and Enterprise Editions	<b>Emulex:</b> LP9002L	MDS9216	MDS9124
Windows NT	4.0 (SP6a)	<b>QLogic:</b> QLA2340, QLA2200, QLA2310F	1.3(4a)	MDS9134
MacOS	10.3	<b>Apple:</b> M9274G/B	2.0(3)	MSM 18/4
AIX	4.3.3, 5.1	<b>Cambex:</b> PC1000, PC2000	2.1(2b)	3.2(1a)
Linux	RedHat 8.0, AS 2.1, Enterprise 3.0	<b>QLogic:</b> QLA 2340, QLA 2310F, QLA2200	3.0(1)	3.2(2c)
	Suse United 1.0, SLES 9	<b>QLogic:</b> QLA 2310F, QLA2340	3.0(2a)	3.3(1c)
HP-UX	11, 11i	<b>HP:</b> A6795A <b>Emulex:</b> LP9002L	3.0(3)	4.1(1b)
			3.1(3a)	MDS9020
Netware	5.1, 6, 6.5	<b>QLogic:</b> QLA 2310F, QLA 2340, QLA 2200	3.2(1a)	2.1(2)
VMware	ESX Server	<b>QLogic:</b> QLA2310F	3.2(2c)	MDS 9513
Solaris	7, 8, 9	<b>QLogic:</b> QLA2310F, QLA2200, QLA 2202FS, QSB 2340	3.3(1c)	
			4.1(1b)	3.0(2a)
				3.0(3)
				3.0(3)
				2.1(2b)
				3.1(3a)
				3.0(1)
				3.2(1a)
				3.2(2c)
				3.3(1c)

Table 1-58 Distance Extension<sup>1</sup>

Distance System	Maximum Distance	Network	Protocol	Storage System	Switch fabric
MDS IPS-8 MDS IPS-4 MPS-14/2 MDS9216i	See note after this table.	DWDM CWDM FCIP	Geo-Replication (Sync mode)	Magnitude 10.01, 11.01 Magnitude 3D 2.5, 3.13 Magnitude 3D 3000 4.1	MDS9500 MDS9216 MDS9216i 1.3(3) 1.3(4a) 2.0(3) 2.1(2b) 3.0(1) 3.0(2a) 3.0(3) 3.1(3a) 3.2(1a) 3.3(1c)  MDS9134 MDS9124 MDS9222i MSM 18/4 3.2(1a) 3.3(1c)  MDS9513 3.0(1) 3.0(2a) 3.0(3) 3.1(3a) 3.2(1a) 3.2(2c) 3.3(1c)

1. Supported distance is determined by XIOtech, based on customer's application requirement. XIOtech accepts Cisco's qualification of the Cisco iSCSI drivers and Microsoft iSCSI drivers with the Cisco MDS 9000 Family switches

# Network Appliance

**Table 1-59 FAS and V-series Product Families**

Operating System	Data ONTAP Version	Cisco Switch Model	Supported SAN-OS/NX-OS
All NetApp FCP Host Kit w/MultiPat	6.4 (6.4.2,6.4.3,6.4.4,6.4.5)	MDS 9216, MDS 9509	1.0(4)
	6.4 (6.4.2,6.4.3,6.4.4,6.4.5)		1.1(1a)
	6.5 (6.5.1,6.5.2)		
	6.5 (6.5.1,6.5.2)	MDS 9506	1.1(1a)
	6.5 (6.5,6.5.1,6.5.2)	MDS 9120, 9140, 9216, 9216i, 9509, 9506	1.3(3c)
	6.5 (6.5.3,6.5.4,6.5.5,6.5.6)	MDS 9120, 9140, 9216, 9216i, 9509, 9506	1.3(4a)
	7.0 (7.0.7.0.1,7.0.2,7.0.3,7.0.4,7.0.5,7.0.6)		
	6.5 (6.5.4,6.5.5,6.5.6); 7.0 (7.0.7.0.1,7.0.2,7.0.3,7.0.4,7.0.5,7.0.6) 7.1 (7.1.7.1.0.1,7.1.1.1,7.1.1.1,7.1.2,7.1.2.1) 7.2 (7.2.1,7.2.1.1,7.2.2,7.2.2L1,7.2.3) 7.2 (7.2.4) 7.2 (7.2.4L1)	MDS 9120, 9140, 9216, 9216 A, 9216i, 9509, 9506	2.1(1b)
	7.2 (7.2.7.2.1,7.2.1.1,7.2.2,7.2.2L1,7.2.3) 7.2 (7.2.4) 7.2 (7.2.4L1) 7.0 (7.0.1,7.0.2,7.0.3,7.0.4,7.0.5,7.0.6) 7.1 (7.1.7.1.0.1,7.1.1.1,7.1.1.1,7.1.2,7.1.2.1)	MDS 9020	FabricWare 2.1(2) 2.1(3)
	7.0 (7.0.3,7.0.4,7.0.5,7.0.6) 7.1 (7.1.7.1.0.1,7.1.1.1,7.1.1.1,7.1.2,7.1.2.1) 7.2 (7.2.7.2.1,7.2.1.1,7.2.2,7.2.2L1,7.2.3) 7.2 (7.2.4) 7.2 (7.2.4L1)	MDS 9120, 9140, 9216, 9216i, 9509, 9506	2.1(2b) 2.1(3)
	7.0 (7.0.4,7.0.5,7.0.6); 7.1(7.1.7.1.0.1,7.1.1.1,7.1.1.1,7.1.2,7.1.2.1) 7.2(7.2.7.2.1,7.2.1.1,7.2.2,7.2.2L1,7.2.3) 7.2 (7.2.4) 7.2 (7.2.4L1)	MDS 9120, 9140, 9216, 9216i, 9509, 9506, 9513	3.0(1) 3.0(2) 3.0(2a) 3.0(2b) 3.0(3) 3.1(1)
	7.1 7.1.0.1-7.1.2.1 7.0 (7.0.5,7.0.6) 7.2 (7.2.4) 7.2 7.2-7.2.3 7.2 (7.2.4L1)	MDS 9120, 9140, 9216, 9216i, 9509, 9506, 9513	3.1(2)
	7.2 (7.2.4) 7.2 7.2-7.2.3 7.1 7.1.0.1-7.1.2.1 7.0 (7.0.5,7.0.6) 7.2 (7.2.4L1)	MDS 9120, 9124, 9513, 9509, 9506, 9216i, 9216A, 9216, 9140 Cisco- HP C-Class 9124e Cisco - IBM BladeCenter Blade DS-IBM-FC-K9	3.1(2a) 3.1(2b) 3.1(3) 3.1(3a)

Table 1-59 FAS and V-series Product Families (continued)

Operating System	Data ONTAP Version	Cisco Switch Model	Supported SAN-OS/NX-OS
All NetApp FCP Host Kit w/MultiPat	7.2 (7.2.4)	MDS 9120, 9124, 9513, 9509, 9506, 9216i, 9216A, 9216, 9140, 9124, 9134	3.2(1a)
	7.0 7.0.5-7.0.6		3.2(2c)
	7.1 7.1.0.1-7.1.2.1	Cisco 9134 N-Port Virtualizer (NPV)	3.2(3)
	7.2 7.2-7.2.3	Cisco 9124 N-Port Virtualizer (NPV)	3.2(3a)
	7.2 (7.2.4L1)	Cisco- HP C-Class 9124e	3.3(1a)
		Cisco- HP C-Class 9124e N-Port Virtualizer (NPV)	3.3(1c)
	Cisco - IBM BladeCenter Blade	4.1(1b)	
	DS-IBM-FC-K9, DS-IBM-FC-K9		
	DS-IBM-FC-K9, DS-IBM-FC-K9 N-Port Virtualizer (NPV)		

# Pillar Data Systems

**Table 1-60 Axiom Storage System 300, 500**

Operating System		Host Bus Adapter	Multipath (APM driver)	Switch Fabric
Type	Version			
windows 2000	Server with SP4 (x86); Advanced Server with SP4 (x86)	<b>Qlogic:</b> QLA2200, QLA2310, QLA2340/42/44, QLE2460/62, QLA2460/62, QMH2462 <b>Emulex:</b> LP982, LP1050, LP9402DC, LP9802/DC, LP10000/DC, LP/e1150, LP11000/2, LPe11000/2	2.2.8 2.3.4	MDS9500 MDS9216i MDS9216A MDS9100
Windows 2003	Standard Edition with SP1 (x86, x64); Enterprise Edition with SP1 (x86, x64, IA64)	<b>Qlogic:</b> QLA2200, QLA2310, QLA2340/42/44, QLE2460/62, QLA2460/62, QMH2462 <b>Emulex:</b> LP982, LP1050, LP9402DC, LP9802/DC, LP10000/DC, LP/e1150, LP11000/2, LPe11000/2		2.0(1b) 2.1(1a) 2.1(1b)
Linux	RedHat ES 3.0/4.0/5.0 OEL4.0	<b>Qlogic:</b> QLA2310F/L QLA2340/2/4, QLA2460/2, QLE2460/2 <b>Emulex:</b> LP10000/DC, LP11000/2, LPe11000/2	2.2.2	2.1(2e) 3.0(1) 3.0(2a)
	SUSE 9	<b>Qlogic:</b> QLA2310F/L QLA2340/2/4, QLA2460/2, QLE2460/2 <b>Emulex:</b> LP10000/DC, LP11000/2, LPe11000/2		3.0(1) 3.1(3) 3.2(1a)
Solaris	8, 9,10	<b>Qlogic:</b> QLA2200, QLA2310, QLA2340/42/44, QCP2340/42 <b>Emulex:</b> LP952/L, LP982, LP9002/DC, LP9402DC, LP9802/DC, LP1050 LP10000/DC	01.04.05 2.02	MDS9020 2.1(2) 2.1(3)
AIX	5.2, 5.3	<b>IBM:</b> 5716, 5758,5759,6228, 6239	2.0.6 2.1.4	MDS9513 3.0(1)
ONStor	EverON 1.2.8.6	Internal HBA	Native	3.0(2a)
VMware ESX	2.5.2, 3.0.2, 3.5	<b>Qlogic:</b> QLA2310, QLA234x		3.0(1) 3.2(1a)  MDS9124 3.2(1a)

# Apple Computer

**Table 1-61 Xserve RAID**

Operating System		Host Bus Adapter	Switch Fabric
Type	Version		
Windows 2000	Advanced Server (SP4)	LSI: 449290	MDS9500
		QLogic: QLA 2310F	MDS9216
MacOS X Server	10.3.2	Apple: Dual FC HBA P/N M8940 G/D	MDS9100
			1.3(4a)
			2.0(1b)
			2.1(1b)
			2.1(2b)
			3.0(2a)
			MDS9216i
			2.0(1b)
			2.1(1b)
			2.1(2b)
			3.0(2a)

# ATTO

**Table 1-62 ATTO Diamond V Class Array**

Operating System		Host Bus Adapter	Multipath	Switch Fabric
Type	Version			
Windows Server 2003	Enterprise Edition	ATTO: FC3300, FC-21PS, FC-22XH	No	MDS9509
Solaris	9	ATTO: FC-21PS		MDS9216
Mac OSX (Tiger)	10.3.9, 10.4.2	ATTO: FC-41XS, FC-21PS		MDS9100
Mac OSX (Panther)	10.3.9	ATTO: FC-21PS		2.1(1a) 3.1(3a)  MDS9216i 2.1(1a) 3.1(3a)

**Table 1-63 HP EVA 4x00, 6x00, 8x00**

Operating System		Host Bus Adapter	Multipath	Switch Fabric
Type	Version			
MacOS	10.4.11	ATTO: Celerity FC-41XS, Celerity FC-41ES, Celerity FC-42ES, Celerity FC-44ES	No	MDS 9214 3.2(3)

# Compellent Technologies

**Table 1-64**      *StorageCenter*

Operating System		Host Bus Adapter	Multipath	Switch Fabric
Type	Version			
Windows Server 2003	Enterprise Edition SP1	<b>QLogic:</b> QLA2342 Emulex: LP11002	MPIO	MDS9124 3.1(1)
Solaris	10	<b>QLogic:</b> QLA2462	No	



# Nexsan

**Table 1-65 ATAboy-2X**

Qualified Operating System		Host Bus Adapter	Switch Fabric
Type	Version		
Windows 2000	Advanced Server (SP3)	QLogic: QLA 2312	MDS9500
Windows 2003			MDS9200
RedHat	9		MDS9100
RHEL	Update 3		MDS 9216i
			1.2(1a)
			1.2(2a)
			2.1(1b)
			2.1(2b)

**Table 1-66 ATAbeast**

Qualified Operating System		Host Bus Adapter	Switch Fabric
Type	Version		
Windows 2000	Advanced Server (SP3)	QLogic: QLA 2312	MDS9500
Windows 2003			MDS9200
RedHat	9		MDS9100
RHEL	Update 3		MDS 9216i
			1.2(1a)
			1.2(2a)
			2.1(1b)
			2.1(2b)

**Table 1-67 SATABoy**

Qualified Operating System		Host Bus Adapter	Switch Fabric
Type	Version		
Windows 2000	Advanced Server (SP3)	QLogic: QLA 2312	MDS9500
Windows 2003			MDS9200
RedHat	9		MDS9100
RHEL	Update 3		MDS 9216i
			1.2(1a)
			1.2(2a)
			2.1(1b)
			2.1(2b)

