

HP StorageWorks modules SAN Server 1000 Compatibility Matrix

		Microsoft Windows 2000	Microsoft NT 4	NetWare 6.0	NetWare 5.1	Red Hat Linux 7.2 Professional	Red Hat Linux Advanced Server 2.1	SuSE Linux Enterprise Server 7 (SLES 7)
MSA1000 w/ 256 MB cache	201723-B22 1 controller, 1 I/O port 14 drive bays	✓	✓	✓	✓	✓	✓	✓
MSA1000 2nd Controller w/ 256MB cache	218231-B22	✓	✓	✓	✓	✓	✓	✓
256MB cache module	254786-B21 (max 512MB per controller)	✓	✓	✓	✓	✓	✓	✓
MSA1000 storage shelf #4314R (single bus)	190209-B21 additional 14 drive bays	✓	✓	✓	✓	✓	✓	✓
MSA1000 storage shelf #4354R (split bus)	190211-B21 additional 7+7 drive bays	✓	✓	✓	✓	✓	✓	✓
MSA Hub 2/3 ³	286763-B21 (internal) ships w/ 2/SFPs	✓	✓	✓	✓	✓	✓	✓
MSA Fabric Switch 6 ^{1 & 2}	218232-B21 (internal) 4 SFF, 1 SPF Ports	✓	✓	✓	✓	✓	✓	✓
MSA1000 2nd FC I/O	218960-B21	✓	✓	✓	✓	✓	✓	✓
FCA2101 HBA (Microsoft)	245299-B21	✓	✓					
FCA2210 HBA (NetWare)	281540-B21			✓	✓			
FCA2214 HBA (Linux)	281541-B21					✓	✓	✓
2 Gb/s "Infrastructure" family of switches		For more info on interconnectivity products, click here: http://h18006.www1.HP.com/storage/saninfrastructure.html						
SAN Core Switch 64	254508-B21 32 SFP ports	✓	✓	✓	✓	✓	✓	✓
SAN Edge Switch 2/32	240603-B21 32 SFP ports	✓	✓	✓	✓	✓	✓	✓
SAN Switch 2/16	287055-B21 16 SFP ports	✓	✓	✓	✓	✓	✓	✓
SAN Switch 2/16-EL	283056-B21 16 SFP ports	✓	✓	✓	✓	✓	✓	✓
SAN Switch 2/8-EL	258707-B21 8 SFP ports	✓	✓	✓	✓	✓	✓	✓
2 Gb/s "High Availability" family of switches		For more info on interconnectivity products, click here: http://h18006.www1.HP.com/storage/saninfrastructure.html						
SAN Director 2/140	316094-B21	✓	✓	✓	✓	✓	✓	✓
SAN Director 2/64	286809-B21 32/64 ports	✓	✓	✓	✓	✓	✓	✓
SAN Edge Switch 2/32	286810-B21	✓	✓	✓	✓	✓	✓	✓
SAN Edge Switch 2/16	286811-B22	✓	✓	✓	✓	✓	✓	✓
SAN Edge Switch 2/24	316095-B21	✓	✓	✓	✓	✓	✓	✓
Clusters Supported		✓	✓	✓	✓	✓	✓	✓
High Availability Cluster Kits		✓	✓			✓		✓
HA/F200 Cluster Kit	252409-B22	✓	✓					
HA/F100 Cluster Kit	252408-B22	✓	✓					
HA/L100 LifeKeeper® Cluster kit	303523-B21					✓		✓
SteelEye™ LifeKeeper for Linux 4.2						✓	✓	✓
HP StorageWorks Secure Path v4.0 for Windows Workgroup Edition		✓	✓					
HP StorageWorks Secure Path V3.0C for NetWare for Workgroup Edition				✓	✓			
HP OpenView Virtual Replicator	1 license included free 10 trial licenses included	✓	✓					
Maximum tested configurations:		3-two node clusters		12 node cluster		16 node cluster		
✓ PLEASE NOTE: ✓ Checkmarks indicate hyperlinks to more specific information	configuration notes:	mixed single servers and cluster supported		NetWare limited to a 2-node cluster when Secure Path is deployed. Mixed single servers and clusters supported		2-eight node or one 16-node clusters. Mixed single servers and clusters supported		

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MSA1000 Support Matrix		Windows 2000		
Component:		Product	Part number	Recommended Version
Operating System		Windows 2000 Advanced Server		Service Pack #3
OS High Availability		HP Proliant Cluster HA/F100 for MSA1000	252408-B22	
		HP Proliant Cluster HA/F200 for MSA1000	252409-B22	
Host Bus Adapter (HBA)		FCA2101 Host Bus Adapter	245299-B21	
Required HP Driver		hp FCA2101 version 5-4.82a9		
Array Configuration Utility		Array Configuration Utility (ACU/ACU-XE)		
Array Management Utility		HP Insight Manager		
LUN Masking Utility		Selective Storage Presentation (SSP)		
OpenView SAM support		Secure Path V4.0 for Windows Workgroup Edition	213076-B21	V4.0
		OpenView Virtual Replicator	261770-B21	V3.0
Configuration/Management CD		MSA1000 Support Software CD		

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MSA1000 Support Matrix		Windows NT		
Component:		Product	Part number	Recommended Version
Operating System		Windows NT		Version 4.0, SP 6
OS High Availability		HP Proliant Cluster HA/F100 for MSA1000	252408-B22	
		HP Proliant Cluster HA/F200 for MSA1000	252409-B22	
Host Bus Adapter (HBA)		FCA2101 Host Adapter	245299-B21	
Required HP Driver		hp FCA2101 version 4-4.82a9		
Array Configuration Utility		Array Configuration Utility (ACU/ACU-XE)		
Array Management Utility		HP Insight Manager		
LUN Masking Utility		Selective Storage Presentation (SSP)		
OpenView SAM Support		Secure Path V4.0 for Windows Workgroup Edition	213076-B23	V4.0
		OpenView Virtual Replicator	261770-B21	V3.0
Configuration/Management Support CD		MSA1000 SAN Support Software CD		

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MSA1000 Support Matrix				
Novell NetWare 5.1 and 6.0				
Component:	Product	Part number	Version	
Operating System	Novell NetWare 5.1 and 6.0			
OS High Availability	Novell Cluster Services			
Host Bus Adapter (HBA)	FCA2210 Host Bus Adapter	281540-B21		
Required HP Driver	NetWare FCA2210 HBA driver v6.50s			
Array Configuration Utility	Array Configuration Utility (ACU/ACU-XE)			
Array Management Utility	HP Insight Manager			
LUN Masking Utility	Selective Storage Presentation (SSP)			
OpenView SAM Support	HP StorageWorks Secure Path V3.0C for NetWare for Workgroup Edition	222411-B22	V3.0C	
Configuration/Management CD	MSA1000 SAN Support Software CD			

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MSA1000 Support Matrix		Linux		
Component:	Product	Part number	Recommended Version	
Operating System	Red Hat Linux 7.2 Professional; Red Hat Linux Advanced Server 2.1; SuSE Linux SLES 7			
OS High Availability	HA/L100 LifeKeeper for Linux (Red Hat Linux 7.2 Professional and SuSE Linux SLES 7)	303523-B21		
	LifeKeeper for Linux v4.2 (Red Hat Linux 7.2 Professional, Red Hat Linux Advanced Server 2.1 and SuSE Linux SLES 7)			
Host Bus Adapter (HBA)	FCA2214 Host Bus Adapter	281541-B21		
Required HP Driver	Linux FCA2214 HBA driver v6.0.2			V6.0.2
Array Configuration Utility	Array Configuration Utility (ACU/ACU-XE)			V6.0
Array Management Utility	HP Insight Manager			
LUN Masking Utility	Selective Storage Presentation (SSP)			
OpenView SAM Support	N/A			
Configuration/Management CD	MSA1000 SAN Support Software CD			

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MSA1000 Supported Hard Drives		Description	Part number		
MSA1000 Supports Up to Fourteen 1" Universal Hard Drives		36.4-GB Pluggable Ultra3 Universal Hard Drive, 15,000 rpm (1")	232916-B22		
Note: For complete compatibility information, refer to the Compaq SCSI Hard Drive Compatibility table located at http://www.compaq.com/products/StorageWorks/hdd/hotplug.html		18.2-GB Pluggable Ultra3 Universal Hard Drive, 15,000 rpm (1")	188122- B22		
Maximum of 42 drives supported on the MSA1000 with the addition of two StorageWorks enclosures 4314 or 4214		72-GB Pluggable Ultra3 Universal Hard Drive, 10,000 rpm, (1")	232432-B22		
Maximum of 28 drives supported on the MSA1000 with the addition of one StorageWorks enclosures 4354R dual bus storage		36.4-GB Pluggable Ultra3 Universal Hard Drive, 10,000 rpm, (1")	176496-B22		
		18.2-GB Pluggable Ultra3 Universal Hard Drive, 10,000 rpm, (1")	142673-B22		
		36.4-GB Pluggable Ultra320 Universal Hard Drive, 10,000 rpm, (1")	286713-B22		
		72.8-GB Pluggable Ultra320 Universal Hard Drive, 10,000 rpm, (1")	286714-B22		
		146.8-GB Pluggable Ultra320 Universal Hard Drive, 10,000 rpm, (1")	286716-B22		
		18.2-GB Pluggable Ultra320 Universal Hard Drive, 15,000 rpm, (1")	286775-B22		
		36.4-GB Pluggable Ultra320 Universal Hard Drive, 15,000 rpm, (1")	286776-B22		
		72.8-GB Pluggable Ultra320 Universal Hard Drive, 15,000 rpm, (1")	286778-B22		

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MSA1000 Supported Servers		Server			
				DL 360, DL380, DL580, DL750, DL760, ML350, ML370, ML530, ML570, ML570G2, ML750, PL1850R, PL3000, PL6000, PL6400, PL7000, PL8000, PL8500	
		ProLiant Servers			
Note(s): 1) A variety of Industry-standard servers (including IBM, Dell, Fujitsu, and others) are supported in standalone and designated cluster configurations 2) Must use HP Specified Server Interface (Host Bus Adapter). 3) Refer to MSA1000 Support CD for drivers and documentation.					

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MSA1000 Supported Configurations	Port Configuration	Server Quantity	Cluster Quantity	OS Support	Notes
	3 ports (MSA hub 2/3)	2 servers	1 two-node cluster	Win2k, NT, NetWare,	comes complete with two SFPs
	6 ports (MSA Fabric Switch 6)	5 Servers	2 two-node clusters	Win2k, NT, NetWare,	
	8 ports (8 port)	6 Servers	2 two-node clusters	Win2K, NT, NetWare, Linux	
	12 ports (MSA Fabric Switch 6 cascaded to MSA Fabric Switch 6)	8 Servers	3-two node clusters	Win2k, NT, Linux	
	16 ports (8 Port cascaded to 8 Port)	10 Servers	4 two-node clusters	Win2k (limit 3), NT, Linux	Microsoft Windows limitation
	16 ports (16 port external)	12 Servers	5 two-node clusters	Win2k (limit 3), NT, Linux	Microsoft Windows limitation
	32 ports (16 port cascaded to a 16 port)	20 Servers	9 two-node clusters	Win2k (limit 3), NT, Linux	Microsoft Windows limitation
	7 Ports (Hub 7)	1 Server	N/A	Win2k, NT, Linux	
	7 Ports (Hub 7)	1 Server	N/A	Win2k, NT, Linux	
	7 Ports (Hub 7)	2 Servers	1 two-node	Win2k, NT, Linux	

Footnotes:

¹One hop only cascading between MSA Fabric Switch 6 to MSA Fabric switch 6

²The MSA Fabric Switch 6 cannot be cascaded to any external Fibre Channel switches

³Hub does not support Linux Secure Path - it does support Secure Path for Microsoft and NetWare

FC Storage Hub 7 cannot cascade (hop) to any other interconnect device

SFP - Small Form Factor Pluggable Transceiver

SFF - Small Form Factor Fixed SW Transceiver

<p align="center">For complete SAN Technical Documentation refer to Heterogeneous Open SAN Design Reference Guide at http://h18000.www1.hp.com/products/storageworks/san/documentation.html</p>
<p align="center">For complete SAN Technical Documentation specific to the MSA1000 refer to http://h18000.www1.hp.com/products/storageworks/msa1000/index.html</p>