



OS Versions

VERSIONS

Netware 6.5

SP 4 (including OES distribution)
SP 5 (including OES distribution)

Notes:

Cluster Management/High Availability

VERSIONS

NCS 1.7, **NCS 1.8** – NW 6.5

Up to 16 cluster nodes supported with Secure Path 3.0c SP2.1.

Notes:

Servers

Proliant x86 Servers
Proliant AMD64
Proliant EM64T

Notes:

Please visit for detailed HP server support Matrix: <http://h10018.www1.hp.com/wwsolutions/novell/index-all.html>
Third party servers are supported if on Novell's Yes, Tested and Approved list and the OS/HBA/driver combination is supported by this document.

GENERAL NOTES

SAN Design Reference Guide

For specific configuration guidelines and coexistence information, refer to <http://h18000.www1.hp.com/products/storageworks/san/documentation.html>.

Red text indicates changes since the previous update of this stream.

HBAs					
HBAs	Boot	Direct Connect	Driver	Firmware	BIOS
FCA2214 281541-B21 (2 Gbps, 64-bit PCI-X)	Y	Y	6.90i 6.90m	1.52 1.52	Loaded from driver Loaded from driver
FCA2214DC 321835-B21 (2 Gbps, 64-bit PCI-X, Dual Channel)					
HP:FC Mezzanine for BL20p	Y	Y	6.90i 6.90m	1.45 1.45	Loaded from driver Loaded from driver
FC1142SR (4Gb PCIe) FC1242SR (4GB PCIe dual channel)	Y	Y	6.90i 6.90m	1.24 1.24	Loaded from driver Loaded from driver
FC1143 (4Gb PCI-X 2.0) FC1243 (4Gb PCI-X 2.0 dual channel)	Y	Y	6.90i 6.90m	1.24 1.24	Loaded from driver Loaded from driver
Notes:					

Path Management	
Path Secure Path 3.0c SP2.1 (16 nodes max for cluster and non-cluster.)	Path
Notes:	Notes:

Fibre Channel Switches

B-Series	C-Series	M-Series
<p>Brocade 4Gb SAN Switch for HP c-Class BladeSystem: 4/12 SAN Switch Brocade 4Gb SAN Switch for HP c-Class BladeSystem: 4/24 SAN Switch Brocade 4Gb SAN Switch for HP c-Class BladeSystem: 4/24 SAN Switch Power Pack Brocade 4Gb SAN Switch for HP p-Class BladeSystem, Base Brocade 4Gb SAN Switch for HP p-Class BladeSystem, Full Fabric Brocade 4Gb SAN Switch for HP p-Class BladeSystem, Power Pack CPQ StorageWorks SAN Switch 16, 16-EL CPQ StorageWorks SAN Switch 2/8-EL, 2/16, 2/16-EL CPQ StorageWorks SAN Switch 8, 8-EL CPQ StorageWorks SAN Switch Integrated/32 CPQ StorageWorks SAN Switch Integrated/64 HP Brocade 2400, 2800 (HP reseller) HP StorageWorks 4/16 SAN Switch, 4/16 SAN Switch Performance Pack HP StorageWorks 4/256 SAN Director, 4/256 SAN Director Power Pack HP StorageWorks 4/8 SAN Switch, 4/8 SAN Switch Performance Pack HP StorageWorks Core Switch 2/64, 2/64 Power Pack HP StorageWorks GSA/TAA SAN switch 2/16V, 2/16N FF, 2/16N Power Pack HP StorageWorks GSA/TAA SAN switch 2/8V, 2/8V Power Pack HP StorageWorks MSA SAN Switch 2/8 HP StorageWorks SAN Director 2/128, 2/128 Power Pack HP StorageWorks SAN Switch 2/16-EL, 2/16, 2/16 Power Pack HP StorageWorks SAN switch 2/16V, 2/16N FF, 2/16N Power Pack HP StorageWorks SAN Switch 2/32, 2/32 Power Pack HP StorageWorks SAN Switch 2/8 EL, 2/8 Power Pack HP StorageWorks SAN switch 2/8V, 2/8V Power Pack HP StorageWorks SAN Switch 4/32 Base, 4/32 Base Full and 4/32 Power Pack HP StorageWorks SAN Switch 4/32B Base, 4/32B Base Full and 4/32B Power Pack HP StorageWorks SAN Switch 4/64 HP Surestore FC 1Gb/2Gb Entry Switch 8B HP Surestore FC 1Gb/2Gb Switch 16B HP Surestore FC 1Gb/2Gb Switch 8B HP Surestore FC Switch 6164 (32 ISL Ports) HP Surestore FC Switch 6164 (64 ISL Ports)</p>	<p>Cisco MDS 9020 Fabric Switch Cisco MDS 9120 Fabric Switch Cisco MDS 9140 Fabric Switch Cisco MDS 9216 Multilayer Fabric Switch Cisco MDS 9216A Multilayer Fabric Switch Cisco MDS 9216i Multilayer Fabric Switch Cisco MDS 9506 Multilayer Director Switch Cisco MDS 9509 Multilayer Director Switch Cisco MDS 9513 Multilayer Director Switch Cisco MDS 9124 Fabric Switch Cisco MDS 9124e Fabric Switch for c-Class BladeSystem</p>	<p>CPQ StorageWorks SAN Director 64 HP StorageWorks Director 2/64, 2/140 HP StorageWorks Edge Switch 2/12, 2/16, 2/24, 2/32 HP Surestore Director FC-64 McData 4Gb SAN Switch for HP p-Class BladeSystem McData ED-5000 (McData reseller) McData ES-3016, ES-3032 (HP reseller) McData Sphereon 4400, 4700 McData Intrepid 10000 Director (i10K)</p>

Notes:

See Switch stream on SPOCK web site under Other Hardware > FC Switches for firmware and software details.

Fibre Channel Routing

Router Model	
HP StorageWorks Multi-protocol Router HP StorageWorks 400 Multi-protocol Router HP StorageWorks Multi-Protocol Router Blade	

Notes:
See Router information on SPOCK web site under Other Hardware > FC Routing/FCIP/iSCSI for firmware and software details.

ARRAY

<p><u>MSA1000 ACTIVE/PASSIVE OR SINGLE CONTROLLER</u></p> <p>Controller: MSA1000</p> <p>Recommended Firmware: 5.20 See critical note below *</p> <p>Minimum Firmware: 4.48</p>	<p><u>MSA1500 ACTIVE/PASSIVE OR SINGLE CONTROLLER</u></p> <p>Controller: MSA1000</p> <p>Recommended Firmware: 5.20</p> <p>Minimum Firmware: 5.10</p> <p>MSA20 SATA Disk Enclosure: 2.02**</p>
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Notes:

*The upgrade from 4.48 FW to 5.20 FW is a one-way process. The controller CAN NOT be downgraded to 4.48 firmware after upgrading to 5.20.

** MSA20 SATA Disk Enclosure only attaches to MSA 1500

ARRAY Software

<p><u>Array Features</u> Array Diagnostic Utility Storage Event Broker Selective Storage Presentation</p>	<p><u>Device Management</u> ACU-XE ACU</p>	<p><u>Data Replication</u> N/A</p>	<p><u>Back-up</u> See EBS document for details For details see EBS document on SPOCK under "Data Protection Solutions"</p>
<p><u>Other</u></p>		<p><u>San Management</u> See OVSAM documents for details Insight Manager</p>	

Notes: