



**Enterprise Backup Solution
Hardware/Software
Compatibility Matrix
May 2003**

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This matrix includes tape automation compatibility details for Direct Attach Storage, Direct Attach Fibre (point-to-point), and Storage Area Network connection options.

For information about tape drive compatibility and support, go to <http://www.hp.com/go/connect>

STORAGE HARDWARE / SOFTWARE COMPATIBILITY MATRIX

Libraries | AutoLoaders | Operating Systems | RAID Arrays | Infrastructure | Servers | Fibre HBAs
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DAS, DAF, and SAN Support	HP Data Protector	Atempo Time Navigator	BakBone NetVault	CA BrightStor ARCserve	CA BrightStor EB	CommVault Galaxy	Legato NetWorker	Syncsort Backup Express	Tivoli Storage Manager	VERITAS Backup Exec	VERITAS NetBackup
Enterprise Libraries											
ESL 9595 (Ultrium 460)	✓						✓		✓	✓ ²	✓
ESL 9595 (Ultrium 230)	✓			✓		✓	✓	✓		✓	✓
ESL 9595 S2	✓			✓	✓	✓	✓	✓		✓	✓
ESL 9595 SL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ESL 9326 SL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ESL 9326 DX	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ESL 9322 (Ultrium 460)	✓						✓			✓ ²	✓
ESL 9322 (Ultrium 230)	✓			✓		✓	✓	✓		✓	✓
ESL 9322 S2	✓			✓	✓	✓	✓	✓		✓	✓
ESL 9198 SL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ESL 9198 DLX	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Mid-Range Libraries											
MSL 6060 (Ultrium 460)	✓			✓			✓			✓ ²	✓
MSL 5060 (Ultrium 230)	✓			✓			✓			✓	✓
MSL 5052 S2	✓			✓	✓	✓	✓	✓		✓	✓
MSL 5052 SL	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
MSL 6030 (Ultrium 460)	✓			✓			✓			✓ ²	✓
MSL 5030 (Ultrium 230)	✓			✓			✓			✓	✓
MSL 5026 S2	✓			✓	✓	✓	✓	✓		✓	✓
MSL 5026 SL	✓	✓	✓	✓	✓	✓	✓	✓	✓ ³	✓	✓
MSL 5026 DLX	✓	✓	✓	✓	✓	✓	✓	✓	✓ ³	✓	✓
SSL 2020 TL ⁴	✓	✓	✓	✓		✓	✓ ¹	✓	✓ ¹	✓	✓ ¹

NOTES:

- 1) Windows NT/2000 and Solaris support in homogeneous SAN environments only
- 2) Support is with Windows NT/2000 only
- 3) Library stacks are not supported
- 4) NSR fibre-SCSI bridge does not support SSL 2020 TL library

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DAS Support	HP Data Protector	Atempo Time Navigator	BakBone NetVault	CA BrightStor ARCserve	CA BrightStor EB	CommVault Galaxy	Legato NetWorker	Syncsort Backup Express	Tivoli Storage Manager	VERITAS Backup Exec	VERITAS NetBackup
AutoLoaders¹											
1/8 Ultrium 230 Tape Autoloader	✓ ⁶			✓ ⁸			✓ ¹⁰			✓ ⁵	✓ ⁹
1/8 DLT vs80 Tape Autoloader	✓ ³	✓ ³	✓ ³	✓	✓ ³	✓ ³	✓ ⁴	✓ ³	✓	✓ ⁵	
SSL1016 SDLT160/320 Tape Autoloader	✓ ⁶			✓ ³			✓ ³			✓ ³	✓ ²
SSL1016 DLT1 Tape Autoloader	✓ ³	✓ ³	✓ ³	✓ ⁵	✓ ³	✓ ³		✓ ³		✓ ³	✓ ³

NOTES:

- 1) Autoloaders are only supported in Direct Attach SCSI configurations
- 2) Support with Windows NT/2000, HP-UX 11.0, and HP-UX 11.11 only
- 3) Support is with Windows NT/2000 only
- 4) Support for Windows NT/2000, Linux, and Solaris only
- 5) Support for Windows NT/2000 and Netware only
- 6) Support for Windows NT/2000, Netware, and HP-UX 10.2, 11.0 & 11.11 only
- 7) HP-UX commands fbackup/frecover and backups launched using HP-UX Site Area Manager are not supported
- 8) Support for Windows NT/2000, Linux, and Netware only
- 9) Support for Windows NT/2000, Linux, Solaris, and HP-UX 10.2, 11.0 & 11.11 only
- 10) Support for Windows 2000, Solaris, and Linux only

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Operating Systems											
HP-UX 11.0	✓		✓ ²		✓ ²	✓ ²	✓	✓ ²	✓		✓
HP-UX 11.11	✓	✓ ²					✓	✓ ²	✓		✓
HP-UX 11.22	✓										✓
WIN NT 4.0	✓	✓	✓	✓ ⁷	✓	✓	✓	✓	✓	✓	✓
WIN 2000 Server/AS	✓	✓	✓	✓ ⁷	✓	✓	✓	✓	✓	✓	✓
WIN Server 2003				✓ ⁷			✓			✓	
Tru64 5.1 ³							✓				✓
Tru64 5.1A ³	✓	✓	✓		✓	✓	✓	✓			✓
Tru64 5.1B ³							✓				
Linux Redhat Advanced Server 2.1							✓				
NetWare 5.1	✓		✓	✓ ⁷				✓		✓	
NetWare 6.0	✓			✓ ⁷				✓		✓	
Solaris 7	✓						✓		✓		✓
Solaris 8	✓	✓	✓		✓	✓	✓	✓	✓		✓
Solaris 9	✓						✓				✓
AIX 4.3.3	✓ ⁵		✓				✓		✓		✓
AIX 5.1L							✓ ¹				✓
High Availability											
HP-UX (Service Guard) ⁴	✓ ⁶										✓ ⁶
Windows (MSCS)		✓	✓			✓	✓	✓	✓	✓	✓
Tru64 (TruCluster)		✓					✓	✓			✓
NetWare 5.1 (NWCS)										✓	
NetWare 6.0 (NWCS)								✓		✓	
Solaris											✓

NOTES:

- 1) DLT8000 products not supported
- 2) A-Class, L-Class, N-Class, and V-Class servers only
- 3) Ultrium 460 (LTO) support only
- 4) Supported on XP raid array products only
- 5) Robot control is performed on Windows platform
- 6) ATS is not supported
- 7) Supports ESL9000 libraries in a homogeneous environment only

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SAN Support	HP Data Protector	Atempo Time Navigator	BakBone NetVault	CA BrightStor ARCserve	CA BrightStor EB	CommVault Galaxy	Legato NetWorker	Syncsort Backup Express	Tivoli Storage Manager	VERITAS Backup Exec	VERITAS NetBackup
RAID Arrays											
XP 1024/128 ^{1,5}	✓			✓			✓			✓	✓
XP 48/512 ^{1,5}	✓			✓			✓			✓	✓
Zero Downtime with XP	✓										
Instant Recovery with XP	✓										
Enterprise Virtual Array (EVA) ¹	Solaris, Tru64, HP-UX, and NT/WIN2K	NT/WIN2K only	NT/WIN2K only	✓ ³	NT/WIN2K only	NT/WIN2K only	✓	NT/WIN2K only	HP-UX, Win2k, and Solaris	✓ ³	✓
VA 7410/7110 ^{1,5}	✓			✓			✓			✓	✓
VA 7400/7100 ^{1,5}	✓			✓			✓			✓	✓
EMA 16000 ¹	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
EMA 12000/8000 ¹	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MSA1000 ^{2, 4}	NT/WIN2K only	NT/WIN2K only	NT/WIN2K only	✓	NT/WIN2K only	NT/WIN2K only	NT/WIN2K & LINUX	NT/WIN2K only		✓	NT/WIN2K only

NOTES:

- 1) Consult with your hp solutions provider for disk array SAN compatibility information
- 2) The MSA1000 can be configured as a stand alone raid array or used in conjunction with the optional MSA Fabric Switch 6.
For compatibility information about the optional MSA Fabric Switch 6, refer to the [Infrastructure](#) page within this document for support details
- 3) Netware 5.1 & 6.0 supported in single path configuration with FCA 2210 HBA only
- 4) NetWare 5.1 & 6.0 supported with FCA2210 HBA only
- 5) For XP and VA array configurations, disk and tape must be on separate HBAs

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Interconnects ¹											
Director Switch 2/140	✓			✓	✓		✓			✓	✓
Director Switch 2/64	✓			✓	✓		✓			✓	✓
Edge Switch 2/32	✓			✓	✓		✓			✓	✓
Edge Switch 2/24	✓			✓	✓		✓			✓	✓
Edge Switch 2/16	✓			✓	✓		✓			✓	✓
Core Switch 2/64	✓			✓	✓		✓			✓	✓
SAN Switch 2/32	✓			✓	✓		✓		✓	✓	✓
SAN Switch 2/16	✓			✓	✓	✓	✓	✓	✓	✓	✓
SAN Switch 2/8	✓			✓	✓	✓	✓	✓	✓	✓	✓
SAN Switch 2/16-EL	✓			✓	✓	✓	✓	✓	✓	✓	✓
SAN Switch 2/8-EL	✓			✓	✓	✓	✓	✓	✓	✓	✓
SAN Switch 16	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SAN Switch 8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SAN Switch 16EL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SAN Switch 8EL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
FC Switch 16B	✓			✓	✓	✓	✓	✓		✓	✓
FC Switch 8B	✓			✓	✓	✓	✓	✓		✓	✓
MSA Fabric Switch 2/8							✓		✓		
MSA Fabric Switch 6 ³										✓	
FC-AL Switch ²	✓	✓	✓	✓		✓		✓		✓	

NOTES:

- 1) Refer to [Heterogeneous Open SAN Design Reference Guide](http://h18000.www1.hp.com/products/storageworks/san/documentation.html) for switch configuration rules and guidelines located at: <http://h18000.www1.hp.com/products/storageworks/san/documentation.html> or consult with your hp solutions provider for assistance
- 2) NSR products do not support FC-AL Switch
- 3) Supported with Windows and NSR - no NetWare

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SAN Support	HP Data Protector	Atempo Time Navigator	BakBone NetVault	CA BrightStor ARCserve	CA BrightStor EB	CommVault Galaxy	Legato NetWorker	Syncsort Backup Express	Tivoli Storage Manager	VERITAS Backup Exec	VERITAS NetBackup
Bridges											
NSR M2402	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NSR N1200	✓			✓			✓		✓	✓	✓
NSR E1200-160	✓			✓			✓			✓	✓
NSR E1200	✓			✓			✓		✓	✓	✓
NSR E2400	✓			✓			✓		✓	✓	✓
MDR ^{1,3}	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Serverless (3PC) Backup Support											
NSR M2402				Windows 2000 Serverless opt w/ HSG only	Windows 2000 Serverless opt w/ HSG only					Windows 2000 ServerFree opt with HSG, HSV, MSA1000 only	Sol 8 NBU 4.5 nbu_snap w/ HSG only ²
NSR N1200				Windows 2000 Serverless opt w/ HSG only	Windows 2000 Serverless opt w/ HSG only					Windows 2000 ServerFree opt with HSG, HSV, MSA1000 only	Sol 8 NBU 4.5 nbu_snap w/ HSG only ²
NSR E1200				Windows 2000 Serverless opt w/ HSG only	Windows 2000 Serverless opt w/ HSG only					Windows 2000 ServerFree opt with HSG, HSV, MSA1000 only	Sol 8 NBU 4.5 nbu_snap w/ HSG only ²
NSR E2400				Windows 2000 Serverless opt w/ HSG only	Windows 2000 Serverless opt w/ HSG only					Windows 2000 ServerFree opt with HSG, HSV, MSA1000 only	Sol 8 NBU 4.5 nbu_snap w/ HSG only ²

NOTES:

- 1) MDR does not support the following libraries:
 - LTO-based libraries MSL5060L1, MSL5030L1, ESL9595L1 and ESL9322L1
 - SDLT2-based libraries MSL5026S2, MSL5052S2, ESL9322S2 and ESL9595S2
- 2) Master router configuration not supported
- 3) MDR does not support Direct Attach Fibre (DAF) configurations

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Servers											
HP SuperDome (pa-risc)	✓						✓				✓
HP rp series (pa-risc)	✓						✓				✓
HP A, L, N, and V-Class	✓	✓	✓		✓	✓	✓	✓			✓
HP ProLiant	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HP NetServer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HP AlphaServer	✓	✓	✓		✓	✓	✓	✓			✓
IBM RS/6000	✓		✓				✓		✓		✓
Sun UltraSPARC	✓	✓	✓		✓	✓	✓	✓	✓		✓
Third Party X86	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NAS											
NAS 8000	✓										
NAS Executor 7000	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
NAS B3000	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
NAS B2000	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓

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Fibre Host Bus Adapters¹											
HP-UX											
A6795A (2G)	✓						✓				✓
A6685A (1G)	✓						✓				✓
A5158A (1G)	✓	✓	✓		✓	✓	✓	✓	✓		✓
Tru64											
FCA2354 (2G)							✓		✓		✓
KGPSA -CA (1G)	✓	✓	✓		✓	✓	✓	✓			✓
Solaris											
FCA2257P (2G - PCI)											
FCA2257C (1G - cPCI)											
SWSA4-SC 64-bit (1G - Sbus)	✓	✓	✓		✓	✓	✓	✓	✓		✓
SWSA4-PC 32-bit (1G - PCI)							✓		✓		✓
JNI FCE6460 (2G - PCI)	✓						✓				✓
JNI FCE6410 (1G - PCI)	✓						✓				✓
AIX											
IBM 6228 (2G)	✓						✓				✓
PCHto-FC HBA for AIX (1G) 197819-B21	✓		✓				✓		✓		✓

NOTES:

1) Refer to [Heterogeneous Open SAN Design Reference Guide](http://h18000.www1.hp.com/products/storageworks/san/documentation.html) for configuration rules and guidelines located at:
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Fibre Host Bus Adapters¹											
Windows											
FCA2355 (2G)	✓			✓			✓		✓	✓	✓
ISP2312 (2G - BL20pG2 Blade Server)	✓									✓	✓
FCA2101 (2G)	✓			✓	✓	✓	✓	✓	✓	✓	✓
64-bit/33MHz PCI to FC (1G) KGPSA-CB	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
LINUX											
FCA2214 (2G)											
QLA2200 (1G)	✓						✓	✓			
NetWare											
FCA2210 (2G)	✓ ³			✓ ³						✓ ³	
64-bit / 66 MHz PCI to FC HBA ^{2, 4} (1G)	✓		✓	✓				✓		✓	
32-bit / 33 MHz HBA ^{2, 4} (1G)	✓			✓				✓		✓	

NOTES:

1) Refer to [Heterogeneous Open SAN Design Reference Guide](#) for configuration rules and guidelines located at:

<http://h18000.www1.hp.com/products/storageworks/san/documentation.html> or consult with your hp solutions provider for assistance

2) COMPAQ HBAs

3) Supports Enterprise Virtual Array (single path only) and MSA1000 (with external HP StorageWorks SAN switch only).

4) Heterogeneous Windows and NetWare configurations require FCA-2210 HBA for access to shared tape. If the configuration includes NetWare 6, HSG80-based disk storage (MA8000, EMA16000) and shared tape, servers must be configured with Compaq HBA's for disk storage and FCA-2210 HBA's for tape storage (separate switch zones for disk and tape).

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SCSI Host Bus Adapters				
HP-UX	Tru64	Solaris	Windows	NetWare
A6829A (LVD Ultra-160 PCI)	3X-KZPCA-AA (LVD Ultra)	LSI 6603 (LVD Dual port)	154457-B21 (Ultra3 LVD, single channel)	348757-B21 (dual channel wide)
A6828A (LVD Ultra-160 PCI)		LSI 6602 (LVD Single port)	129803-B21 (Ultra3 LVD, dual channel)	268351-B21 (U320, dual channel) ¹
A5149A (LVD Ultra 2 PCI)			348757-B21 (dual channel wide)	
A5150A (LVD Ultra 2 PCI)			Adaptec 2940U2W	
A4974A (PCI Ultra SCSI Single Ended Adaptor)			Adaptec 2940U2B	
A4999A (PCI Ultra2 Low Voltage Diff SCSI adaptor)			Adaptec 29160	
A5838A (PCI 2 Port 100Base-T 2-Port Ultra2 SCSI)			Adaptec 39160	
			Qlogic 1280	
			Symbios/LSI 8951	
			Symbios/LSI 8952U	
			Symbios/LSI 22902	
			Symbios/LSI 22903	
			Symbios/LSI 22915	
			268351-B21 (U320, dual channel) ¹	
			???? C7474A ??? Mike Peebles 1/8 Autoloader	

NOTES:

1) Supported with driver 1.08.18 only

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OpenView											
Storage Virtual Replicator				✓			✓		✓	✓	✓
OV-SAM	✓			✓			✓			✓	✓
StorageWorks											
Data Replication Manager				✓			✓		✓	✓	NT/WIN2K only
Enterprise Volume Manager		✓		✓		✓	✓		✓	NT/WIN2K only	NT/WIN2K only
Tools and Utilities											
Smart Start	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Insight Manager 7				✓			✓		✓	✓	✓

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Disk Array Multipath¹											
AutoPath for HP-UX ¹	✓						✓				✓
Secure Path for HP-UX ¹	EVA Only						EVA Only				EVA Only
Secure Path for WIN NT ¹	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Secure Path for WIN 2000 ¹	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AutoPath for Windows 2000 ¹										✓	
Tru64 Multipath ²							✓	✓			✓
Secure Path for NetWare ¹										✓ ³	
Secure Path for Solaris ¹							✓		✓		✓
Secure Path for AIX ¹											
IBM DPO									✓		

NOTES:

1) Refer to [Heterogeneous Open SAN Design Reference Guide](#) for configuration rules and guidelines located at:

<http://h18000.www1.hp.com/products/storageworks/san/documentation.html> or consult with your hp solutions provider for assistance

2) Multipath to tape supported

3) MSA1000 requires 3.0c with FCA-2210, HSG80's require 3.0b with COMPAQ HBAs

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Enterprise Libraries												
ESL 9595 (Ultirum 460)												
Robot FW	3.40	3.40						3.40		3.40	3.40	3.40
Drive FW Ultrium 460	F38W	F38W						F38W		F38W	F38W	F38W
ESL 9595 (Ultirum 230)												
Robot FW	3.40	3.40			3.31		3.31	3.40	3.31		3.40	3.40
Drive FW Ultrium 230	E30W (005.452)	E30W (005.452)			E30W (005.452)		E30W (005.452)	E30W (005.452)	E30W (005.452)		E30W (005.452)	E30W (005.452)
ESL 9595 S2												
Robot FW	3.40	3.40			3.31	3.20	3.20	3.40	3.20		3.40	3.40
Drive FW SDLT 160/320	v52	v52			v52	V35	V35	v52	V35		v52	v52
ESL 9595 SL												
Robot FW	3.40	3.40	3.20p5	3.20p5	3.31	3.20	3.20	3.40	3.20		3.40	3.40
Drive FW SDLT 110/220	v52	v52	V35	V35	v52	V35	V35	v52	V35		v52	v52
ESL 9326 SL												
Robot FW	3.40	3.40	3.20p5	3.20p5	3.31	3.20	3.20	3.40	3.20		3.40	3.40
Drive FW SDLT 110/220	v52	v52	V35	V35	v52	V35	V35	v52	V35		v52	v52
ESL 9326 DX												
Robot FW	3.40	3.40	3.20p5	3.20p5	3.31	3.20	3.20	3.40	3.20		3.40	3.40
Drive FW 40/80	V80	V80	V80	V80	V80	V80	V80	V80	V80		V80	V80
ESL 9322 (Ultirum 460)												
Robot FW	3.40	3.40						3.40		3.40	3.40	3.40
Drive FW Ultrium 460	F38W	F38W						F38W		F38W	F38W	F38W
ESL 9322 (Ultirum 230)												
Robot FW	3.40	3.40			3.31		3.31	3.40	3.31		3.40	3.40
Drive FW Ultrium 230	E30W (005.452)	E30W (005.452)			E30W (005.452)		E30W (005.452)	E30W (005.452)	E30W (005.452)		E30W (005.452)	E30W (005.452)
ESL 9322 S2												
Robot FW	3.40	3.40			3.31	3.20	3.20	3.40	3.20		3.40	3.40
Drive FW SDLT 160/320	v52	v52			v52	V35	V35	v52	V35		v52	v52
ESL 9198 SL												
Robot FW	3.40	3.40	3.20p5	3.20p5	3.31	3.20	3.20	3.40	3.20		3.40	3.40
Drive FW SDLT 110/220	v52	v52	V35	V35	v52	V35	V35	v52	V35		v52	v52
ESL 9198 DLX												
Robot FW	3.40	3.40	3.20p5	3.20p5	3.31	3.20	3.20	3.40	3.20		3.40	3.40
Drive FW 40/80	v80	v80	V80	V80	v80	V80	V80	v80	V80		v80	v80

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Mid-Range Libraries												
MSL 6060 (Ultrium 460)												
Robot FW	4.14	4.14			4.14			4.14			4.14	4.14
Drive FW Ultrium 460	F38W	F38W			F38W			F38W			F38W	F38W
MSL 5060 L1												
Robot FW	4.08	4.08			4.08			4.08			4.08	4.08
Drive FW Ultrium 230	E30W (005.452)	E30W (005.452)			E30W (005.452)			E30W (005.452)			E30W (005.452)	E30W (005.452)
MSL 5052 S2												
Robot FW	4.08	4.08			4.08	3.11	3.11	4.08	3.11		4.08	4.08
Drive FW SDLT 160/320	v52	v52			v52	v35	V35	v52	V35		v52	v52
MSL 5052 SL												
Robot FW	4.08	4.08	3.11	3.11	4.08	3.11	3.11	4.08	3.11		4.08	4.08
Drive FW SDLT 110/220	v52	v52	V35	V35	v52	v35	V35	v52	v35		v52	v52
MSL 6030 (Ultrium 460)												
Robot FW	4.14	4.14			4.14			4.14			4.14	4.14
Drive FW Ultrium 460	F38W	F38W			F38W			F38W			F38W	F38W
MSL 5030 L1												
Robot FW	4.08	4.08			4.08			4.08			4.08	4.08
Drive FW Ultrium 230	E30W (005.452)	E30W (005.452)			E30W (005.452)			E30W (005.452)			E30W (005.452)	E30W (005.452)
MSL 5026 S2												
Robot FW	4.08	4.08			4.08	3.11	3.11	4.08	3.11		4.08	4.08
Drive FW SDLT 160/320	v52	v52			v52	v35	V35	v52	V35		v52	v52
MSL 5026 SL												
Robot FW	4.08	4.08	3.11	3.11	4.08	3.11	3.11	4.08	3.11		4.08	4.08
SDLT 110/220 FW	v52	v52	V35	V35	v52	V35	V35	v52	v35		v52	v52
MSL 5026 DLX												
Robot FW	4.08	4.08	3.11	3.11	4.08	3.11	3.11	4.08	3.11		4.08	4.08
Drive FW 40/80	v80	v80	V80	V80	v80	v80	V80	v80	v80		v80	v80
SSL 2020 TL												
Robot FW	4.16	4.16	4.15	4.15	4.16		4.16	4.16	4.16		4.16	4.16
Drive FW AIT50	1.32	1.32	1.30	1.30	1.32		1.30	1.32	1.27		1.32	1.32

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Autoloaders												
1/8 Ultrium 230 Tape Autoloader												
Robot FW												
Drive FW Ultrium 230												
1/8 DLT vs80 Tape Autoloader												
Robot FW												
Drive FW vs80												
SSL1016 SDLT160/320 Tape Autoloader												
Robot FW	v31	v31			v31						v31	v31
Drive FW SDLT 160/320	v52	v52			v52						v52	v52
SSL1016 DLT1 Tape Autoloader												
Robot FW	v31	v31			v31	v13	v13		v13		v31	v31
Drive FW DLT 1	v53	v53			v53	v46	v46		v46		v53	v53
RAID Arrays												
XP 1024/128	21.04.04.00/00	21.04.04.00/00			21.04.04.00/00			21.04.04.00/00			21.04.04.00/00	21.04.04.00/00
XP 48/512	01.18.48.00/00	01.18.48.00/00			01.18.48.00/00			01.18.48.00/00			01.18.48.00/00	01.18.48.00/00
Zero Downtime with XP												
Instant Recovery with XP												
Enterprise Virtual Array (EVA) FW	2.002	2.002	v2_w020214-2000	v2_w020214-2000	2.002	2.0	2.0	2.002	2.0		2.002	2.002
VA 7410/7110	ha A100	ha A100			ha A100			ha A100			ha A100	ha A100
VA 7400/7100	hp18	hp18			hp18			hp18			hp18	hp18
EMA 16000	ACS 8.7	ACS 8.7	8.6	8.6	ACS 8.7	8.6	8.6	ACS 8.7	8.6		ACS 8.7	ACS 8.7
EMA 12000/8000	ACS 8.7	ACS 8.7	8.6	8.6	ACS 8.7	8.6	8.6	ACS 8.7	8.6		ACS 8.7	ACS 8.7
MSA1000												
MSA1000 Controller	2.38	2.38	1.14	1.14	2.38	1.14	1.14	2.38	1.14		2.38	2.38
MSA1000 GEM	1.86	1.86			1.86			1.86			1.86	1.86
MSA1000 Fabric Switch 6	101G12										101G12	
Bridges												
NSR M2402	4.03.19	4.03.19	4.02	4.02	4.03.19	4.02.aw	4.02.aw	4.03.19	4.02.aw	4.03.19	4.03.19	4.03.19
NSR N1200	4.03.19	4.03.19			4.03.19			4.03.19		4.03.19	4.03.19	4.03.19
NSR E2400	4.03.19	4.03.19			4.03.19			4.03.19		4.03.19	4.03.19	4.03.19
NSR E1200-160	4.03.24	4.03.24			4.03.24			4.03.24			4.03.24	4.03.24
NSR E1200	4.03.19	4.03.19			4.03.19			4.03.19		4.03.19	4.03.19	4.03.19
MDR	v1187	v1187	v1186	v1186	v1187	v1187	v1187	v1187	V1187	V1187	v1187	v1187

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Interconnects												
Director Switch 2/140	v4.01.02, HAFM (required) v06.03.01	v4.01.02, HAFM (required) v06.03.01			v4.01.02, HAFM (required) v06.03.01	v4.01.02, HAFM (required) v06.03.01		v4.01.02, HAFM (required) v06.03.01			v4.01.02, HAFM (required) v06.03.01	v4.01.02, HAFM (required) v06.03.01
Director Switch 2/64	v4.01.02, HAFM (required) v06.03.01	v4.01.02, HAFM (required) v06.03.01			v4.01.02, HAFM (required) v06.03.01	v4.01.02, HAFM (required) v06.03.01		v4.01.02, HAFM (required) v06.03.01			v4.01.02, HAFM (required) v06.03.01	v4.01.02, HAFM (required) v06.03.01
Edge Switch 2/32	v4.01.02, HAFM (required) v06.03.01	v4.01.02, HAFM (required) v06.03.01			v4.01.02, HAFM (required) v06.03.01	v4.01.02, HAFM (required) v06.03.01		v4.01.02, HAFM (required) v06.03.01			v4.01.02, HAFM (required) v06.03.01	v4.01.02, HAFM (required) v06.03.01
Edge Switch 2/24	v4.01.02, HAFM (required) v06.03.01	v4.01.02, HAFM (required) v06.03.01			v4.01.02, HAFM (required) v06.03.01	v4.01.02, HAFM (required) v06.03.01		v4.01.02, HAFM (required) v06.03.01			v4.01.02, HAFM (required) v06.03.01	v4.01.02, HAFM (required) v06.03.01
Edge Switch 2/16	v4.01.02, HAFM (required) v06.03.01	v4.01.02, HAFM (required) v06.03.01			v4.01.02, HAFM (required) v06.03.01	v4.01.02, HAFM (required) v06.03.01		v4.01.02, HAFM (required) v06.03.01			v4.01.02, HAFM (required) v06.03.01	v4.01.02, HAFM (required) v06.03.01
Core Switch 2/64	4.0.2b	4.0.2b			4.0.2b	4.0.2b		4.0.2b			4.0.2b	4.0.2b
SAN Switch 2/32	3.0.2k	3.0.2k			3.0.2k	3.0.2e		3.0.2k			3.0.2k	3.0.2k
SAN Switch 2/16	3.0.2k	3.0.2k			3.0.2k	3.0.2e	3.0.2e	3.0.2k	3.0.2e		3.0.2k	3.0.2k
SAN Switch 2/8	3.0.2k	3.0.2k			3.0.2k	3.0.2e	3.0.2e	3.0.2k	3.0.2e		3.0.2k	3.0.2k
SAN Switch 2/16-EL	3.0.2k	3.0.2k			3.0.2k	3.0.2e	3.0.2e	3.0.2k	3.0.2e		3.0.2k	3.0.2k
SAN Switch 2/8-EL	3.0.2k	3.0.2k			3.0.2k	3.0.2e	3.0.2e	3.0.2k	3.0.2e		3.0.2k	3.0.2k
SAN Switch 16	2.6.0h	2.6.0h	2.6	2.6	2.6.0h	a2.6.0.c	a2.6.0.c	2.6.0h	a2.6.0.c		2.6.0h	2.6.0h
SAN Switch 8	2.6.0h	2.6.0h	2.6	2.6	2.6.0h	a2.6.0.c	a2.6.0.c	2.6.0h	a2.6.0.c		2.6.0h	2.6.0h
SAN Switch 16EL	2.6.0h	2.6.0h	2.6	2.6	2.6.0h	a2.6.0.c	a2.6.0.c	2.6.0h	a2.6.0.c		2.6.0h	2.6.0h
SAN Switch 8EL	2.6.0h	2.6.0h	2.6	2.6	2.6.0h	a2.6.0.c	a2.6.0.c	2.6.0h	a2.6.0.c		2.6.0h	2.6.0h
FC Switch 16B	3.0.2k	3.0.2k			3.0.2k	3.0.2e	3.0.2e	3.0.2k	3.0.2e		3.0.2k	3.0.2k
FC Switch 8B	3.0.2k	3.0.2k			3.0.2k	3.0.2e	3.0.2e	3.0.2k	3.0.2e		3.0.2k	3.0.2k
MSA Fabric Switch 2/8	3.0.2k	3.0.2k			3.0.2k	3.0.2k	3.0.2k	3.0.2k			3.0.2k	3.0.2k
MSA Fabric Switch 6	101G12										101G12	
FC-AL Switch												
FC Loop Switch FW	1.20-g07	1.20-g07	1.20-g07	1.20-g07	1.20-g07		1.20-g07		1.20-g07		1.20-g07	
FC Loop Switch ROM	V1.2-b2	V1.2-b2	V1.2-b2	V1.2-b2	V1.2-b2		V1.2-b2		V1.2-b2		V1.2-b2	
HP OpenView Storage & StorageWorks Software												
OpenView												
Storage Virtual Replicator	3.0b sp1				3.0b sp1			3.0b sp1			3.0b sp1	3.0b sp1
OV-SAM	3.0.1	3.0.1			3.0.1			3.0.1			3.0.1	3.0.1
StorageWorks												
Data Replication Manager	2.0a				2.0a			2.0a			2.0a	2.0a
Enterprise Volume Manager	V2.0		V2.0		V2.0		V2.0	V2.0			V2.0	V2.0

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Tools and Utilities												
Smart Start	6.2	6.2	5.2, 5.3	5.2, 5.3	6.2	5.2, 5.3, 5.4	5.2, 5.3	6.2	5.2, 5.3, 5.4		6.2	6.2
Insight Manager 7	7				7			7			7	7
Disk Array Multipath Support												
AutoPath for HP-UX	2.01	2.01						2.01				2.01
Secure Path for HP-UX	3.0a, SP1	3.0a, SP1						3.0a, SP1				3.0a, SP1
Secure Path for WIN NT	4.0a	4.0a	v3.1a sp2	v3.1a sp2	4.0a	4	4	4.0a	4		4.0a	4.0a
Secure Path for WIN 2000	4.0a	4.0a	v3.1a sp2	v3.1a sp2	4.0a	4	4	4.0a	4		4.0a	4.0a
AutoPath for Windows 2000											02.00.00	
Tru64 Multipath	Native							Native	Native			Native
Secure Path for NetWare	3.0c										3.0c	
Secure Path for Solaris	3.0a, SP1							3.0a, SP1				3.0a, SP1
Secure Path for AIX	2.0b											
IBM DPO												
Operating System												
HP-UX	11.11 w/SP56 (HWE 11.11) PHKL_22857 11.00 w/SP56 (HWE 11.0) PHKL_25769	11.11 w/SP56 (HWE 11.11) PHKL_22857 11.00 w/SP56 (HWE 11.0) PHKL_25769	11.11	11.0		11.0	11.0	11.11 w/SP56 (HWE 11.11) PHKL_22857 11.00 w/SP56 (HWE 11.0) PHKL_25769	11.0, 11.11			11.11 w/SP56 (HWE 11.11) PHKL_22857 11.00 w/SP56 (HWE 11.0) PHKL_25769
Win NT 4.0 Server	sp6a	sp6a	sp6a	sp6a	sp6a	sp6a	sp6a	sp6a	sp6a		sp6a	sp6a
Win 2000 Server	sp3	sp3	sp2	sp2	sp3	sp2	sp2	sp3	sp2		sp3	sp3
Tru64 UNIX	5.1 pk6, 5.1A pk4 5.1B pk1 (ipk)	5.1A pk4	5.1A	5.1A		5.1A	5.1A pk1	5.1 pk6, 5.1A pk4 5.1B pk1 (ipk)	5.1A pk2			5.1 pk6, 5.1A pk4
Linux – Red Hat	Advanced Server 2.1							Advanced Server 2.1				
NetWare	5.1 sp5 6.0 sp2	5.1 sp5 6.0 sp2		5.1 sp5	5.1 sp5 6.0 sp2				5.1 sp5 6.0 sp2		5.1 sp5 6.0 sp2	
Solaris UNIX	7, 8, and 9	7, 8, and 9	8	8		8	8	7, 8, and 9	8			7, 8, and 9
AIX	4.3.3 and 5.1L	4.3.3		4.3.3				4.3.3 and 5.1L				4.3.3 and 5.1L

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Fibre Host Bus Adapters												
Windows												
FCA2355 (2G)												
FW	3.82a1	3.82a1			3.82a1			3.82a1			3.82a1	3.82a1
WIN NT 4.0 Driver	4-4.82a14	4-4.82a14			4-4.82a14			4-4.82a14			4-4.82a14	4-4.82a14
WIN 2000 Driver	5-4.82a14	5-4.82a14			5-4.82a14			5-4.82a14			5-4.82a14	5-4.82a14
ISP2312 (2G - BL20pG2 Blade Server)												
FW	1.33	1.33									1.33	1.33
WIN Driver	8.2.0.72	8.2.0.72									8.2.0.72	8.2.0.72
FCA2101 (2G)												
FW	3.82a1	3.82a1			3.82a1	3.81a3	3.81a3	3.82a1	3.81a3		3.82a1	3.82a1
WIN NT 4.0 Driver	4-4.82a14	4-4.82a14			4-4.82a14			4-4.82a14			4-4.82a14	4-4.82a14
WIN 2000 Driver	5-4.82a14	5-4.82a14			5-4.82a14	5-4.54a7	5-4.81a9	5-4.82a14	5-4.53a9		5-4.82a14	5-4.82a14
64-bit/33MHz PCI to FC (1G - Windows) KGPSA-CB												
FW	3.82a1	3.82a1	3.82a1	3.82a1	3.82a1	3.82a1	3.82a1	3.82a1	3.82a1		3.82a1	3.82a1
WIN NT 4.0 Driver	4-4.82a14	4-4.82a14			4-4.82a14	4-4.53a7	4-4.53a7	4-4.82a14	4-4.53a7		4-4.82a14	4-4.82a14
WIN 2000 Driver	5-4.82a14	5-4.82a14	5-4.52a9	5-4.52a9	5-4.82a14	5-4.53a7	5-4.52a9	5-4.82a14	5-4.53a7		5-4.82a14	5-4.82a14
LINUX												
FCA2214 (2G)												
FW	1.29											
Linux Driver (Intel)	6.04.00											
QIA2200 (1G)												
FW	1.76	1.76						1.76	1.76			
Linux Driver (Intel)	6.0.1c	6.0.1c						6.0.1c	6.0.1			
NetWare												
FCA2210 (2G)												
FW	1.29	1.29			1.29						1.29	
NetWare Driver	6.50s3	6.50s3			6.50s3						6.50s3	
64 Bit / 66 MHz PCI to FC HBA (1G)												
NetWare Driver	2.52	2.52		2.52	2.52				2.52		2.52	
32-bit / 33 MHz HBA (1G)												
NetWare Driver	2.52	2.52			2.52				2.52		2.52	
AIX												
IBM 6228 (2Gb)												
FW												
AIX Driver												
PCHto-FC HBA for AIX (1G) 197819-B21												
FW												
AIX Driver	1.5.19	1.5.19		1.5.11.1				1.5.19				1.5.19

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Components & Firmware	Current Release	HP Data Protector	Atempo Time Navigator	BakBone NetVault	CA BrightStor ARCserve	CA BrightStor EB	CommVault Galaxy	Legato NetWorker	Syncsort Backup Express	Tivoli Storage Manager	VERITAS Backup Exec	VERITAS NetBackup
Fibre Host Bus Adapters												
HP-UX												
A6795A (2G)												
FW												
HP-UX Driver	11.11.09	11.11.09						11.11.09				11.11.09
A6685A (1G)												
FW												
HP-UX Driver	11.11.09	11.11.09						11.11.09				11.11.09
A5158A (1G)												
FW												
HP-UX Driver	11.11.09	11.11.09	11.00.06	11.00.06		11.00.06	11.00.06	11.11.09	11.00.06			11.11.09
Tru64												
FCA2354												
FW	3.81a4							3.81a4				3.81a4
Tru64 Driver	2.06							2.06				2.06
KGPSA -CA												
FW	3.81a4	3.81a4	3.81a4	3.81a4		3.81a4	3.81a4	3.81a4	3.81a4			3.81a4
Tru64 Driver	2.06	2.06	1.32a	1.32a		1.32a	1.32a	2.06	2.02			2.06
Solaris												
FCA2257P (2G - PCI)												
Fcode	3.1.2											
Solaris Driver	3.26											
FCA2257C (1G - PCI)												
Fcode	3.1.2											
Solaris Driver	3.26											
FCA2257S (1G - Sbus)												
Fcode	3.1.2											
Solaris Driver	3.26											
SWSA4-SC 64-bit Sbus												
Fcode	13.3.7	13.3.7	13.3.7	13.3.7		13.3.7	13.3.7	13.3.7	13.3.7			13.3.7
Solaris Driver	2.5.9	2.5.9	2.5.9	2.5.9		2.5.9	2.5.9	2.5.9	2.5.9			2.5.9
SWSA4-PC 32-bit PCI												
Fcode	3.0.3							3.0.3				3.0.3
Solaris Driver	2.5.9							2.5.9				2.5.9
JNI FCE6460 (2G - PCI)												
Fcode	3.89	3.89						3.89				3.89
Solaris Driver	5.2.1	5.2.1						5.2.1				5.2.1
JNI FCE6410 (1G - PCI)												
Fcode	3.9	3.9						3.9				3.9
Solaris Driver	4.13	4.13						4.13				4.13

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ISV DETAILS

Name	Version	Date Last Tested	Recommended Tape Driver	Application Information/Support
HP OpenView Storage Data Protector	5.0	Current	Use Data Protector Driver for Windows	Data Protector Product Information Data Protector Device Support Matrix
Atempo Time Navigator	3.6	Mar-02		www.atempo.com
BakBone NetVault	6.5.1	Mar-02		www.bakbone.com
Computer Associates BrightStor ARCserve for Windows NT/2000	ARCserve v9.0 build 1868	Current	CABA Driver for Windows	support.ca.com
Computer Associates BrightStor ARCserve for NetWare	9.0	Current	HP Driver for Netware	support.ca.com
Computer Associates BrightStor Enterprise Backup	BEB v10.0 SP4 Bd. 1400	Aug-02		support.ca.com/
CommVault Galaxy	4.1.0	Aug-02		www.commvault.com
Legato NetWorker	7.0 and 6.1.3	Current	HP Driver for Windows	www.legato.com
Syncsort Backup Express	v2.1.5B	Aug-02	Use Native Drivers	www.syncsort.com
Tivoli Storage Manager	5.1.6.4	Current	Tivoli Driver for Windows	www.tivoli.com
VERITAS Backup Exec for Windows Servers	9.0 build 4367.2	Current	BE Driver for Windows	www.veritas.com
VERITAS Backup Exec for NetWare	9.0 build 4175.1	Current	BE Driver for Netware	www.veritas.com
VERITAS NetBackup Windows	4.5 FP3 and 3.4.1 MP3	Current	HP Driver for Windows	www.veritas.com
VERITAS NetBackup UNIX	4.5 FP3 and 3.4 MP3	Current		www.veritas.com

NOTE: All ISV certifications have been completed with a minimum configuration of 16 servers by 16 drives.

This does not imply any limitations of the ISV backup and restore application or HP StorageWorks SAN products.

Refer to the ISV website or your ISV representative for maximum configuration details.