



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

[start here](#)

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

# STORAGE HARDWARE / SOFTWARE COMPATIBILITY MATRIX

Libraries | AutoLoaders | Operating Systems | RAID Arrays | Infrastructure | Servers | Fibre HBAs  
SCSI HBAs | Software | Disk Array Multipath | Firmware & Drivers | Backup App Details

April 2003

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
<b>Enterprise Libraries</b>											
ESL 9595 (Ultrium 460)	✓						✓		✓	✓ <sup>2</sup>	✓
ESL 9595 (Ultrium 230)	✓			✓		✓	✓	✓		✓	✓
ESL 9595 S2	✓			✓	✓	✓	✓	✓		✓	✓
ESL 9595 SL	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
ESL 9326 SL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ESL 9326 DX	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ESL 9322 (Ultrium 460)	✓						✓			✓ <sup>2</sup>	✓
ESL 9322 (Ultrium 230)	✓			✓		✓	✓	✓		✓	✓
ESL 9322 S2	✓			✓	✓	✓	✓	✓		✓	✓
ESL 9198 SL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ESL 9198 DLX	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>Mid-Range Libraries</b>											
MSL 6060 (Ultrium 460)	✓			✓			✓			✓ <sup>2</sup>	✓
MSL 5060 L1	✓			✓			✓			✓	✓
MSL 5052 S2	✓			✓	✓	✓	✓	✓		✓	✓
MSL 5052 SL	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
MSL 6030 (Ultrium 460)	✓			✓			✓			✓ <sup>2</sup>	✓
MSL 5030 L1	✓			✓			✓			✓	✓
MSL 5026 S2	✓			✓	✓	✓	✓	✓		✓	✓
MSL 5026 SL	✓	✓	✓	✓	✓	✓	✓	✓	✓ <sup>3</sup>	✓	✓
MSL 5026 DLX	✓	✓	✓	✓	✓	✓	✓	✓	✓ <sup>3</sup>	✓	✓
SSL 2020 TL	✓	✓	✓	✓		✓	✓ <sup>1</sup>	✓	✓ <sup>1</sup>	✓	✓ <sup>1</sup>

## 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

# STORAGE HARDWARE / SOFTWARE COMPATIBILITY MATRIX

Libraries | AutoLoaders | Operating Systems | RAID Arrays | Infrastructure | Servers | Fibre HBAs  
SCSI HBAs | Software | Disk Array Multipath | Firmware & Drivers | Backup App Details

April 2003

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
<b>AutoLoaders<sup>3</sup></b>											
1/8 Ultrium 230 Tape Autoloader	✓			✓			✓			✓	✓
1/8 DLT vs80 Tape Autoloader		✓ <sup>1</sup>	✓ <sup>1</sup>		✓ <sup>1</sup>	✓ <sup>1</sup>		✓ <sup>1</sup>			
SSL1016 SDLT160/320 Tape Autoloader	✓			✓ <sup>1</sup>						✓ <sup>1</sup>	✓ <sup>2</sup>
SSL1016 DLT1 Tape Autoloader	✓	✓ <sup>1</sup>	✓ <sup>1</sup>	✓ <sup>1</sup>	✓ <sup>1</sup>	✓ <sup>1</sup>		✓ <sup>1</sup>		✓	✓

**NOTES:**

- 1) DAS support is with Windows NT/2000 only
- 2) DAS support with Windows NT/2000, HP-UX 11.0, and HP-UX 11.11 only
- 3) DAS connectivity only

# STORAGE HARDWARE / SOFTWARE COMPATIBILITY MATRIX

Libraries | AutoLoaders | Operating Systems | RAID Arrays | Infrastructure | Servers | Fibre HBAs  
SCSI HBAs | Software | Disk Array Multipath | Firmware & Drivers | Backup App Details

April 2003

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<b>Operating Systems</b>											
HP-UX 11.0	✓		✓ <sup>2</sup>		✓ <sup>2</sup>	✓ <sup>2</sup>	✓	✓ <sup>2</sup>	✓		✓
HP-UX 11.11	✓	✓ <sup>2</sup>					✓	✓ <sup>2</sup>	✓		✓
HP-UX 11.22	✓										✓
WIN NT 4.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
WIN 2000 Server/AS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
WIN Server 2003				✓			✓			✓	
Tru64 5.1 <sup>3</sup>							✓				✓
Tru64 5.1A <sup>3</sup>	✓	✓	✓		✓	✓	✓	✓			✓
Tru64 5.1B <sup>3</sup>							✓				
Linux Redhat Advanced Server 2.1							✓				
NetWare 5.1	✓		✓	✓ <sup>7</sup>				✓		✓	
NetWare 6.0	✓			✓ <sup>7</sup>				✓		✓	
Solaris 7	✓						✓		✓		✓
Solaris 8	✓	✓	✓		✓	✓	✓	✓	✓		✓
Solaris 9	✓						✓				✓
AIX 4.3.3	✓ <sup>5</sup>		✓				✓		✓		✓
AIX 5.1L							✓ <sup>1</sup>				✓
<b>High Availability</b>											
HP-UX (Service Guard) <sup>4</sup>	✓ <sup>6</sup>										✓ <sup>6</sup>
Windows (MSCS)		✓	(no failover)			✓	MSCS (next scheduled job)	✓	MSCS (next scheduled job)	MSCS (Checkpoint Restart)	MSCS (Job restart)
Tru64 (TruCluster)		✓					✓	✓			✓
NetWare 5.1 (NWCS)										NWCS (no failover)	
NetWare 6.0 (NWCS)								✓		NWCS (no failover)	
Solaris											VERITAS Cluster Server (no failover)

## NOTES:

- 1) DLT8000 products not supported
- 2) A-Class, L-Class, N-Class, and V-Class servers only
- 3) Ultrium 460 (LTO) support only when available
- 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

# STORAGE HARDWARE / SOFTWARE COMPATIBILITY MATRIX

Libraries | AutoLoaders | Operating Systems | RAID Arrays | Infrastructure | Servers | Fibre HBAs  
SCSI HBAs | Software | Disk Array Multipath | Firmware & Drivers | Backup App Details

April 2003

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
<b>RAID Arrays</b>											
XP 1024/128 <sup>1,5</sup>	✓			✓			✓			✓	✓
XP 48/512 <sup>1,5</sup>	✓			✓			✓			✓	✓
Zero Downtime with XP	✓										
Instant Recovery with XP	✓										
Enterprise Virtual Array (EVA) <sup>1</sup> (HSV)	Solaris, Tru64, HP-UX, and NT/WIN2K	NT/WIN2K only	NT/WIN2K only	✓ <sup>3</sup>	NT/WIN2K only	NT/WIN2K only	✓	NT/WIN2K only		✓ <sup>3</sup>	✓
VA 7410/7110 <sup>1,5</sup>	✓			✓			✓			✓	✓
VA 7400/7100 <sup>1,5</sup>	✓			✓			✓			✓	✓
EMA 16000 <sup>1</sup> (HSG)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
EMA 12000/8000 <sup>1</sup> (HSG)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MSA1000 <sup>2, 4</sup>	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

# STORAGE HARDWARE / SOFTWARE COMPATIBILITY MATRIX

Libraries | AutoLoaders | Operating Systems | RAID Arrays | Infrastructure >>Next | Servers | Fibre HBAs  
SCSI HBAs | Software | Disk Array Multipath | Firmware & Drivers | Backup App Details

April 2003

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
<b>Interconnects<sup>1</sup></b>											
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 <sup>3</sup>										✓	
FC-AL Switch <sup>2</sup>	✓	✓	✓	✓		✓		✓		✓	

## 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

# STORAGE HARDWARE / SOFTWARE COMPATIBILITY MATRIX

[Libraries](#) | [AutoLoaders](#) | [Operating Systems](#) | [RAID Arrays](#) | [<<Previous Infrastructure](#) | [Servers](#) | [Fibre HBAs](#)  
[SCSI HBAs](#) | [Software](#) | [Disk Array Multipath](#) | [Firmware & Drivers](#) | [Backup App Details](#)

April 2003

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
<b>Bridges</b>											
NSR M2402	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NSR N1200	✓			✓			✓		✓	✓	✓
NSR E1200-160	✓			✓			✓			✓	✓
NSR E1200	✓			✓			✓		✓	✓	✓
NSR E2400	✓			✓			✓		✓	✓	✓
MDR <sup>1</sup>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>Serverless (3PC) Backup Support</b>											
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 <sup>2</sup>
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 <sup>2</sup>
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 <sup>2</sup>
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 <sup>2</sup>

**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

# STORAGE HARDWARE / SOFTWARE COMPATIBILITY MATRIX

[Libraries](#) | [AutoLoaders](#) | [Operating Systems](#) | [RAID Arrays](#) | [Infrastructure](#) | [Servers](#) | [Fibre HBAs](#)  
[SCSI HBAs](#) | [Software](#) | [Disk Array Multipath](#) | [Firmware & Drivers](#) | [Backup App Details](#)

April 2003

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
<b>Servers</b>											
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	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>NAS</b>											
NAS 8000	✓										
NAS Executor 7000	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
NAS B3000	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
NAS B2000	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓



# STORAGE HARDWARE / SOFTWARE COMPATIBILITY MATRIX

Libraries | AutoLoaders | Operating Systems | RAID Arrays | Infrastructure | Servers | Fibre HBAs >>Next  
SCSI HBAs | Software | Disk Array Multipath | Firmware & Drivers | Backup App Details

April 2003

SAN and DAF 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
<b>Fibre Host Bus Adapters<sup>1</sup></b>											
<b>HP-UX</b>											
A6795A (2G)	✓						✓				✓
A6685A (1G)	✓						✓				✓
A5158A (1G)	✓	✓	✓		✓	✓	✓	✓			✓
<b>Tru64</b>											
FCA2354 (2G)							✓		✓		✓
KGPSA -CA (1G)	✓	✓	✓		✓	✓	✓	✓			✓
<b>Solaris</b>											
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)	✓						✓				✓
<b>AIX</b>											
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:  
<http://h18000.www1.hp.com/products/storageworks/san/documentation.html> or consult with your hp solutions provider for assistance

# STORAGE HARDWARE / SOFTWARE COMPATIBILITY MATRIX

Libraries | AutoLoaders | Operating Systems | RAID Arrays | Infrastructure | Servers | << Previous Fibre HBAs  
SCSI HBAs | Software | Disk Array Multipath | Firmware & Drivers | Backup App Details

April 2003

SAN and DAF 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
<b>Fibre Host Bus Adapters<sup>1</sup></b>											
<b>Windows</b>											
FCA2355 (2G)	✓			✓			✓		✓	✓	✓
ISP2312 (2G - BL20pG2 Blade Server)	✓									✓	✓
FCA2101 (2G)	✓			✓	✓	✓	✓	✓	✓	✓	✓
64-bit/33MHz PCI to FC (1G) KGPSA-CB	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>LINUX</b>											
FCA2214 (2G)											
QLA2200 (1G)	✓						✓	✓			
<b>NetWare</b>											
FCA2210 (2G)	✓ <sup>3</sup>			✓ <sup>3</sup>						✓ <sup>3</sup>	
64-bit / 66 MHz PCI to FC HBA <sup>2, 4</sup> (1G)	✓		✓	✓				✓		✓	
32-bit / 33 MHz HBA <sup>2, 4</sup> (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

# STORAGE HARDWARE / SOFTWARE COMPATIBILITY MATRIX

[Libraries](#) | [AutoLoaders](#) | [Operating Systems](#) | [RAID Arrays](#) | [Infrastructure](#) | [Servers](#) | [Fibre HBAs](#)  
[SCSI HBAs](#) | [Software](#) | [Disk Array Multipath](#) | [Firmware & Drivers](#) | [Backup App Details](#)

April 2003

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)	
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	

# STORAGE HARDWARE / SOFTWARE COMPATIBILITY MATRIX

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SCSI HBAs | Software | Disk Array Multipath | Firmware & Drivers | Backup App Details

April 2003

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

# STORAGE HARDWARE / SOFTWARE COMPATIBILITY MATRIX

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SCSI HBAs | Software | Disk Array Multipath | Firmware & Drivers | Backup App Details

April 2003

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<b>Disk Array Multipath<sup>1</sup></b>											
AutoPath for HP-UX <sup>1</sup>	✓						✓				✓
Secure Path for HP-UX <sup>1</sup>	EVA Only						EVA Only				EVA Only
Secure Path for WIN NT <sup>1</sup>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Secure Path for WIN 2000 <sup>1</sup>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AutoPath for Windows 2000 <sup>1</sup>										✓	
Tru64 Multipath <sup>2</sup>							✓	✓			✓
Secure Path for NetWare <sup>1</sup>										✓ <sup>3</sup>	
Secure Path for Solaris <sup>1</sup>							✓		✓		✓
Secure Path for AIX <sup>1</sup>											
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

# STORAGE HARDWARE / SOFTWARE COMPATIBILITY MATRIX

Libraries | AutoLoaders | Operating Systems | RAID Arrays | Infrastructure | Servers | Fibre HBAs  
SCSI HBAs | Software | Disk Array Multipath | Firmware & Drivers >>Next | Backup App Details

April 2003

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
<b>Enterprise Libraries</b>												
<b>ESL 9595 (Ultirum 460)</b>												
Robot FW	3.40	3.40						3.40		3.40	3.40	3.40
Drive FW Ultrium 460	F38W	F38W						F38W		F38W	F38W	F38W
<b>ESL 9595 (Ultirum 230)</b>												
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)
<b>ESL 9595 S2</b>												
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	v51	v51			v51	V35	V35	v51	V35		v51	v51
<b>ESL 9595 SL</b>												
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	v51	v51	V35	V35	v51	V35	V35	v51	V35		v51	v51
<b>ESL 9326 SL</b>												
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	v51	v51	V35	V35	v51	V35	V35	v51	V35		v51	v51
<b>ESL 9326 DX</b>												
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
<b>ESL 9322 (Ultirum 460)</b>												
Robot FW	3.40	3.40						3.40		3.40	3.40	3.40
Drive FW Ultrium 460	F38W	F38W						F38W		F38W	F38W	F38W
<b>ESL 9322 (Ultirum 230)</b>												
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)
<b>ESL 9322 S2</b>												
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	v51	v51			v51	V35	V35	v51	V35		v51	v51
<b>ESL 9198 SL</b>												
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	v51	v51	V35	V35	v51	V35	V35	v51	V35		v51	v51
<b>ESL 9198 DLX</b>												
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

# STORAGE HARDWARE / SOFTWARE COMPATIBILITY MATRIX

Libraries | AutoLoaders | Operating Systems | RAID Arrays | Infrastructure | Servers | Fibre HBAs  
SCSI HBAs | Software | Disk Array Multipath | <<Previous Firmware & Drivers >>Next | Backup App Details

April 2003

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
<b>Mid-Range Libraries</b>												
<b>MSL 6060 (Ultrium 460)</b>												
Robot FW	4.14	4.14			4.14			4.14			4.14	4.14
Drive FW Ultrium 460	F38W	F38W			F38W			F38W			F38W	F38W
<b>MSL 5060 L1</b>												
Robot FW	4.14	4.14			4.14			4.14			4.14	4.14
Drive FW Ultrium 230	E30W (005.452)	E30W (005.452)			E30W (005.452)			E30W (005.452)			E30W (005.452)	E30W (005.452)
<b>MSL 5052 S2</b>												
Robot FW	4.14	4.14			4.14	3.11	3.11	4.14	3.11		4.14	4.14
Drive FW SDLT 160/320	v51	v51			v51	v35	V35	v51	V35		v51	v51
<b>MSL 5052 SL</b>												
Robot FW	4.14	4.14	3.11	3.11	4.14	3.11	3.11	4.14	3.11		4.14	4.14
Drive FW SDLT 110/220	v51	v51	V35	V35	v51	v35	V35	v51	v35		v51	v51
<b>MSL 6030 (Ultrium 460)</b>												
Robot FW	4.14	4.14			4.14			4.14			4.14	4.14
Drive FW Ultrium 460	F38W	F38W			F38W			F38W			F38W	F38W
<b>MSL 5030 L1</b>												
Robot FW	4.14	4.14			4.14			4.14			4.14	4.14
Drive FW Ultrium 230	E30W (005.452)	E30W (005.452)			E30W (005.452)			E30W (005.452)			E30W (005.452)	E30W (005.452)
<b>MSL 5026 S2</b>												
Robot FW	4.14	4.14			4.14	3.11	3.11	4.14	3.11		4.14	4.14
Drive FW SDLT 160/320	v51	v51			v51	v35	V35	v51	V35		v51	v51
<b>MSL 5026 SL</b>												
Robot FW	4.14	4.14	3.11	3.11	4.14	3.11	3.11	4.14	3.11		4.14	4.14
SDLT 110/220 FW	v51	v51	V35	V35	v51	V35	V35	v51	v35		v51	v51
<b>MSL 5026 DLX</b>												
Robot FW	4.14	4.14	3.11	3.11	4.14	3.11	3.11	4.14	3.11		4.14	4.14
Drive FW 40/80	v80	v80	V80	V80	v80	v80	V80	v80	v80		v80	v80
<b>SSL 2020 TL</b>												
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

# STORAGE HARDWARE / SOFTWARE COMPATIBILITY MATRIX

Libraries | AutoLoaders | Operating Systems | RAID Arrays | Infrastructure | Servers | Fibre HBAs  
SCSI HBAs | Software | Disk Array Multipath | <<Previous Firmware & Drivers >>Next | Backup App Details

April 2003

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
<b>Autoloaders</b>												
<b>1/8 Ultrium 230 Tape Autoloader</b>												
Robot FW												
Drive FW Ultrium 230												
<b>1/8 DLT vs80 Tape Autoloader</b>												
Robot FW												
Drive FW vs80												
<b>SSL1016 SDLT160/320 Tape Autoloader</b>												
Robot FW	v31	v31			v31						v31	v31
Drive FW SDLT 160/320	v51	v51			v51						v51	v51
<b>SSL1016 DLT1 Tape Autoloader</b>												
Robot FW	v31	v31			v31	v13	v13		v13		v31	v31
Drive FW DLT 1	v53	v53			v53	v46	v46		v46		v53	v53
<b>RAID Arrays</b>												
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
<b>MSA1000</b>												
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	
<b>Bridges</b>												
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



# STORAGE HARDWARE / SOFTWARE COMPATIBILITY MATRIX

[Libraries](#) | [AutoLoaders](#) | [Operating Systems](#) | [RAID Arrays](#) | [Infrastructure](#) | [Servers](#) | [Fibre HBAs](#)  
[SCSI HBAs](#) | [Software](#) | [Disk Array Multipath](#) | [<<Previous](#) [Firmware & Drivers](#) [>>Next](#) | [Backup App Details](#)

April 2003

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
<b>Interconnects</b>												
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 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	
<b>HP OpenView Storage &amp; StorageWorks Software</b>												
<b>OpenView</b>												
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
<b>StorageWorks</b>												
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

# STORAGE HARDWARE / SOFTWARE COMPATIBILITY MATRIX

Libraries | AutoLoaders | Operating Systems | RAID Arrays | Infrastructure | Servers | Fibre HBAs  
SCSI HBAs | Software | Disk Array Multipath | <<Previous Firmware & Drivers >>Next | Backup App Details

April 2003

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
<b>Tools and Utilities</b>												
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
<b>Disk Array Multipath Support</b>												
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												
<b>Operating System</b>												
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

# STORAGE HARDWARE / SOFTWARE COMPATIBILITY MATRIX

Libraries | AutoLoaders | Operating Systems | RAID Arrays | Infrastructure | Servers | Fibre HBAs  
SCSI HBAs | Software | Disk Array Multipath | <<Previous Firmware & Drivers >>Next | Backup App Details

April 2003

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
<b>Fibre Host Bus Adapters</b>												
<b>Windows</b>												
FCA2355 (2G)												
FW	3.82a1	3.82a1			3.82a1			3.82a1			3.82a1	3.82a1
WIN NT 4.0 Driver	4-4.82a9	4-4.82a9			4-4.82a9			4-4.82a9			4-4.82a9	4-4.82a9
WIN 2000 Driver	5-4.82a9	5-4.82a9			5-4.82a9			5-4.82a9			5-4.82a9	5-4.82a9
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	4-4.82a9	4-4.82a9			4-4.82a9			4-4.82a9			4-4.82a9	4-4.82a9
WIN 2000 Driver	5-4.82a9	5-4.82a9			5-4.82a9	5-4.54a7	5-4.81a9	5-4.82a9	5-4.53a9		5-4.82a9	5-4.82a9
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	4-4.82a9	4-4.82a9			4-4.82a9	4-4.53a7	4-4.53a7	4-4.82a9	4-4.53a7		4-4.82a9	4-4.82a9
WIN 2000 Driver	5-4.82a9	5-4.82a9	5-4.52a9	5-4.52a9	5-4.82a9	5-4.53a7	5-4.52a9	5-4.82a9	5-4.53a7		5-4.82a9	5-4.82a9
<b>LINUX</b>												
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			
<b>NetWare</b>												
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	
<b>AIX</b>												
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

# STORAGE HARDWARE / SOFTWARE COMPATIBILITY MATRIX

[Libraries](#) | [AutoLoaders](#) | [Operating Systems](#) | [RAID Arrays](#) | [Infrastructure](#) | [Servers](#) | [Fibre HBAs](#)  
[SCSI HBAs](#) | [Software](#) | [Disk Array Multipath](#) | [<<Previous Firmware & Drivers](#) | [Backup App Details](#)

April 2003

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
<b>Fibre Host Bus Adapters</b>												
<b>HP-UX</b>												
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
<b>Tru64</b>												
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
<b>Solaris</b>												
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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[SCSI HBAs](#) | [Software](#) | [Disk Array Multipath](#) | [Firmware & Drivers](#) | [Backup App Details](#)

April 2003

## ISV DETAILS

Name	Version	Date Last Tested	Application Information/Support
HP OpenView Storage Data Protector	5.0	Current	<a href="#">Data Protector Product Information</a> <a href="#">Data Protector Device Support Matrix</a>
Atempo Time Navigator	3.6	Mar-02	<a href="http://www.atempo.com">www.atempo.com</a>
BakBone NetVault	6.5.1	Mar-02	<a href="http://www.bakbone.com">www.bakbone.com</a>
Computer Associates BrightStor ARCserve for Windows NT/2000	ARCserve v9.0 build 1868	Current	<a href="http://support.ca.com">support.ca.com</a>
Computer Associates BrightStor ARCserve for NetWare	9.0	Current	<a href="http://support.ca.com">support.ca.com</a>
Computer Associates BrightStor Enterprise Backup	BEB v10.0 SP4 Bd. 1400	Aug-02	<a href="http://support.ca.com/">support.ca.com/</a>
CommVault Galaxy	4.1.0	Aug-02	<a href="http://www.commvault.com">www.commvault.com</a>
Legato NetWorker	7.0 and 6.1.3	Current	<a href="http://www.legato.com">www.legato.com</a>
Syncsort Backup Express	v2.1.5B	Aug-02	<a href="http://www.syncsort.com">www.syncsort.com</a>
Tivoli Storage Manager	5.1.6	Current	<a href="http://www.tivoli.com">www.tivoli.com</a>
VERITAS Backup Exec for Windows Servers	9.0 build 4367.2	Current	<a href="http://www.veritas.com">www.veritas.com</a>
VERITAS Backup Exec for NetWare	9.0 build 4175.1	Current	<a href="http://www.veritas.com">www.veritas.com</a>
VERITAS NetBackup Windows	4.5 FP3 and 3.4.1 MP3	Current	<a href="http://www.veritas.com">www.veritas.com</a>
VERITAS NetBackup UNIX	4.5 FP3 and 3.4 MP3	Current	<a href="http://www.veritas.com">www.veritas.com</a>

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.