



# HP StorageWorks Enterprise Backup Solution Hardware/Software Compatibility Matrix

This matrix includes tape automation compatibility details for Direct Attach SCSI (DAS), Direct Attach Fibre (DAF or point-to-point fibre), and Storage Area Network (SAN) connection options. This matrix does not imply device availability.

Products that are scheduled for removal from the EBS Matrix next month will be highlighted in yellow. Automation products will then be moved to the Legacy Support Details page.

For more technical information about EBS and supported 3rd party arrays, go to the Enterprise Backup Solution Design Guide and ISV implementation guides located at <http://h18000.www1.hp.com/products/storageworks/ebs/documentation.html>.

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

## **START HERE**

**March 2004**

**Version 1.0**

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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
<b>Enterprise Libraries</b>											
ESL E-Series 712e (Ultrium 460)	✓ <sup>10</sup>			✓ <sup>7</sup>		✓	✓			✓ <sup>7</sup>	✓
ESL E-Series 630e (SDLT320)	✓ <sup>10</sup>			✓ <sup>7</sup>		✓	✓			✓ <sup>7</sup>	✓
ESL 9595 (Ultrium 460)	✓			✓ <sup>2</sup>	✓	✓	✓	✓	✓	✓	✓
ESL 9595 (Ultrium 230)	✓			✓	✓	✓	✓ <sup>5</sup>	✓	✓	✓	✓
ESL 9595 S2	✓			✓	✓	✓	✓	✓	✓	✓	✓
ESL 9595 SL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ESL 9326 SL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ESL 9326 DX <sup>6</sup>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ESL 9322 (Ultrium 460)	✓			✓ <sup>2</sup>	✓	✓	✓	✓	✓	✓	✓
ESL 9322 (Ultrium 230)	✓			✓	✓	✓	✓ <sup>5</sup>	✓	✓	✓	✓
ESL 9322 S2	✓			✓	✓	✓	✓	✓	✓	✓	✓
ESL 9198 SL	✓	✓	✓	✓ <sup>2</sup>	✓	✓	✓	✓	✓	✓	✓
ESL 9198 DLX <sup>6</sup>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ESL Multi-Unit Scalability <sup>3,4</sup>	✓				✓	✓	✓	✓	✓ <sup>8</sup>		✓
ESL Mixed Media Support	✓			✓		✓				✓ <sup>9</sup>	✓
<b>Mid-Range Libraries</b>											
MSL 6060 (Ultrium 460)	✓			✓	✓	✓	✓	✓	✓	✓	✓
MSL 5060 (Ultrium 230)	✓			✓	✓	✓	✓ <sup>5</sup>	✓	✓	✓	✓
MSL 5052 S2	✓			✓	✓	✓	✓	✓	✓	✓	✓
MSL 5052 SL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MSL 6030 (Ultrium 460)	✓			✓	✓	✓	✓	✓	✓	✓	✓
MSL 5030 (Ultrium 230)	✓			✓	✓	✓	✓ <sup>5</sup>	✓	✓	✓	✓
MSL 5026 S2	✓			✓	✓	✓	✓	✓	✓	✓	✓
MSL 5026 SL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MSL 5026 DLX <sup>6</sup>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MSL Multi-Unit Scalability <sup>3,4</sup>	✓			✓		✓	✓			✓	✓
MSL Mixed Media Support	✓			✓		✓				✓ <sup>9</sup>	✓
SSL 2020 TL <sup>6</sup>	✓	✓	✓	✓ <sup>7</sup>		✓	✓ <sup>1</sup>	✓	✓ <sup>1</sup>	✓ <sup>7</sup>	✓ <sup>1</sup>

## NOTES:

- 1) Windows NT/2000 and Solaris support in homogeneous SAN environments only
- 2) Support is with CA BrightStor ARCserve for Windows NT/2000 and CA BrightStor ARCserve for NetWare in a homogeneous environment only
- 3) ESL multi-unit scalability is with a horizontal pass-through mechanism, and the MSL multi-unit scalability is with a vertical pass-through mechanism
- 4) Contact your ISV for scalability support

- 5) Ultrium 230 drives are not supported on Windows 2003
- 6) Not supported with IA-64 operating systems
- 7) Windows support only
- 8) Support is with IBM 6228 HBA only
- 9) Homogeneous Windows only
- 10) Windows, HP-UX, and NetWare support only

**Interface Controller Support for Libraries >>**

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DAF and SAN Support <sup>1</sup>	E2400-160 FC Interface Controller	NSR E1200-160	NSR E2400	NSR E1200	NSR M2402	NSR N1200
<b>Enterprise Libraries</b>						
ESL E-Series 712e (Ultrium 460)	✓					
ESL E-Series 630e (SDLT320)	✓					
ESL 9595 (Ultrium 460)	✓				✓	
ESL 9595 (Ultrium 230)	✓		✓		✓	✓
ESL 9595 S2	✓		✓		✓	✓
ESL 9595 SL	✓		✓		✓	✓
ESL 9326 SL	✓		✓		✓	✓
ESL 9326 DX					✓	✓
ESL 9322 (Ultrium 460)	✓				✓	
ESL 9322 (Ultrium 230)	✓		✓		✓	✓
ESL 9322 S2	✓		✓		✓	✓
ESL 9198 SL	✓		✓		✓	✓
ESL 9198 DLX	✓		✓		✓	✓
ESL Multi-Unit Scalability	✓		✓		✓	✓
Interface Manager	✓					
<b>Mid-Range Libraries</b>						
MSL 6060 (Ultrium 460)		✓			✓	
MSL 5060 (Ultrium 230)		✓		✓	✓	✓
MSL 5052 S2		✓		✓	✓	✓
MSL 5052 SL		✓		✓	✓	✓
MSL 6030 (Ultrium 460)		✓			✓	
MSL 5030 (Ultrium 230)		✓		✓	✓	✓
MSL 5026 S2		✓		✓	✓	✓
MSL 5026 SL		✓		✓	✓	✓
MSL 5026 DLX		✓		✓	✓	✓
MSL Multi-Unit Scalability		✓		✓	✓	✓
SSL 2020 TL					✓	✓

**NOTE:**

1) For ISV compatibility information with the routers, refer to the second [Infrastructure](#) page within this document or [click here](#).

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DAS Support	Operating System 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	Native	
<b>AutoLoaders<sup>1</sup></b>														
SSL1016 Ultrium 460 Tape Autoloader	HP-UX 11.0	✓						✓		✓		✓	✓	
	HP-UX 11.11	✓						✓		✓		✓	✓	
	HP-UX 11.23	✓						✓					✓	
	Windows NT 4.0	✓			✓	✓	✓		✓	✓	✓	✓		
	Windows 2000 Server/AS	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Windows Server 2003 (32-bit)	✓			✓			✓		✓	✓	✓	✓	
	Windows Server 2003 (64-bit)	✓						✓		✓				
	Tru64 5.1							✓					✓	
	Tru64 5.1A							✓					✓	
	Tru64 5.1B							✓					✓	
	Red Hat Advanced Server 2.1 (32-bit)								✓				✓	✓
	Red Hat Advanced Server 2.1 (64-bit)	✓												
	Red Hat Enterprise LINUX 3.0 (32-bit)													
	Red Hat Enterprise LINUX 3.0 (64-bit)													
	United Linux 1.0/SuSE SLES 8 (32-bit)								✓					✓
	United Linux 1.0/SuSE SLES 8 (64-bit)	✓												
	NetWare 5.1	✓				✓						✓		
	NetWare 6.0	✓				✓						✓		
	NetWare 6.5					✓								
	Solaris 7	✓							✓		✓		✓	
Solaris 8	✓							✓		✓		✓		
Solaris 9	✓							✓				✓		
AIX 4.3.3 (32-bit)								✓		✓		✓		
AIX 5.1L (32-bit)										✓				
AIX 5.2 (32-bit)														
SSL1016 SDLT160/320 Tape Autoloader	HP-UX 11.0	✓						✓				✓	✓	
	HP-UX 11.11	✓						✓				✓	✓	
	HP-UX 11.23	✓											✓	
	Windows NT 4.0	✓			✓	✓	✓		✓	✓	✓	✓		
	Windows 2000 Server/AS	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Windows Server 2003 (32-bit)	✓			✓			✓		✓	✓	✓	✓	
	Windows Server 2003 (64-bit)	✓						✓						
	Tru64 5.1							✓					✓	
	Tru64 5.1A	✓						✓					✓	
	Tru64 5.1B	✓						✓					✓	
	Red Hat Advanced Server 2.1 (32-bit)	✓											✓	✓
	Red Hat Advanced Server 2.1 (64-bit)	✓												
	Red Hat Enterprise LINUX 3.0 (32-bit)													
	Red Hat Enterprise LINUX 3.0 (64-bit)													
	United Linux 1.0/SuSE SLES 8 (32-bit)	✓												
	United Linux 1.0/SuSE SLES 8 (64-bit)	✓												
	NetWare 5.1	✓				✓						✓		
	NetWare 6.0	✓				✓						✓		
	NetWare 6.5					✓								
	Solaris 7	✓							✓				✓	
Solaris 8	✓							✓				✓		
Solaris 9	✓							✓				✓		
AIX 4.3.3 (32-bit)	✓							✓				✓		
AIX 5.1L (32-bit)								✓						
AIX 5.2 (32-bit)														

**NOTE:** 1) Autoloaders are only supported in Direct Attach SCSI configurations

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DAS Support	Operating System 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	Native	
<b>AutoLoaders<sup>1</sup></b>														
1/8 Ultrium 460 Tape Autoloader	HP-UX 11.0	✓						✓		✓		✓	✓	
	HP-UX 11.11	✓						✓		✓		✓	✓	
	HP-UX 11.23	✓						✓					✓	
	Windows NT 4.0	✓			✓		✓			✓	✓	✓		
	Windows 2000 Server/AS	✓			✓		✓	✓		✓	✓	✓	✓	
	Windows Server 2003 (32-bit)	✓			✓			✓		✓	✓	✓	✓	
	Windows Server 2003 (64-bit)	✓						✓			✓	✓	✓	
	Tru64 5.1	✓						✓				✓		
	Tru64 5.1A	✓						✓				✓		
	Tru64 5.1B	✓						✓				✓		
	Red Hat Advanced Server 2.1 (32-bit)	✓										✓	✓	
	Red Hat Advanced Server 2.1 (64-bit)	✓							✓				✓	
	Red Hat Enterprise LINUX 3.0 (32-bit)													
	Red Hat Enterprise LINUX 3.0 (64-bit)													
	United Linux 1.0/SuSE SLES 8 (32-bit)	✓												✓
	United Linux 1.0/SuSE SLES 8 (64-bit)	✓												✓
	NetWare 5.1	✓				✓						✓		
	NetWare 6.0	✓				✓						✓		
	NetWare 6.5					✓								
	Solaris 7	✓							✓				✓	
Solaris 8	✓							✓				✓		
Solaris 9	✓							✓				✓		
AIX 4.3.3 (32-bit)	✓							✓						
AIX 5.1L (32-bit)	✓							✓						
AIX 5.2 (32-bit)	✓							✓						
1/8 Ultrium 230 Tape Autoloader	HP-UX 11.0	✓								✓		✓	✓	
	HP-UX 11.11	✓								✓		✓	✓	
	HP-UX 11.23	✓											✓	
	Windows NT 4.0	✓			✓	✓	✓		✓	✓	✓	✓		
	Windows 2000 Server/AS	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Windows Server 2003 (32-bit)	✓						✓		✓			✓	
	Windows Server 2003 (64-bit)	✓								✓			✓	
	Tru64 5.1													
	Tru64 5.1A													
	Tru64 5.1B													
	Red Hat Advanced Server 2.1 (32-bit)								✓			✓	✓	
	Red Hat Advanced Server 2.1 (64-bit)	✓							✓					
	Red Hat Enterprise LINUX 3.0 (32-bit)													
	Red Hat Enterprise LINUX 3.0 (64-bit)													
	United Linux 1.0/SuSE SLES 8 (32-bit)								✓					✓
	United Linux 1.0/SuSE SLES 8 (64-bit)	✓							✓					
	NetWare 5.1	✓				✓						✓		
	NetWare 6.0	✓				✓						✓		
	NetWare 6.5					✓								
	Solaris 7								✓		✓		✓	
Solaris 8								✓		✓		✓		
Solaris 9								✓		✓		✓		
AIX 4.3.3 (32-bit)										✓				
AIX 5.1L (32-bit)										✓				
AIX 5.2 (32-bit)														

**NOTE:** 1) Autoloaders are only supported in Direct Attach SCSI configurations

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<b>AutoLoaders<sup>1</sup></b>														
1/8 SDLT 160/320 Tape Autoloader	HP-UX 11.0	✓						✓				✓	✓	
	HP-UX 11.11	✓						✓				✓	✓	
	HP-UX 11.23	✓						✓					✓	
	Windows NT 4.0										✓	✓		
	Windows 2000 Server/AS	✓			✓			✓			✓	✓	✓	
	Windows Server 2003 (32-bit)	✓			✓			✓			✓	✓	✓	
	Windows Server 2003 (64-bit)	✓			✓			✓					✓	
	Tru64 5.1							✓						
	Tru64 5.1A							✓						
	Tru64 5.1B							✓				✓		
	Red Hat Advanced Server 2.1 (32-bit)				✓							✓	✓	
	Red Hat Advanced Server 2.1 (64-bit)								✓					
	Red Hat Enterprise LINUX 3.0 (32-bit)													
	Red Hat Enterprise LINUX 3.0 (64-bit)													
	United Linux 1.0/SuSE SLES 8 (32-bit)					✓								✓
	United Linux 1.0/SuSE SLES 8 (64-bit)													
	NetWare 5.1	✓				✓						✓		
	NetWare 6.0	✓				✓						✓		
	NetWare 6.5	✓				✓						✓		
	Solaris 7								✓				✓	
Solaris 8								✓				✓		
Solaris 9								✓				✓		
AIX 4.3.3 (32-bit)								✓						
AIX 5.1L (32-bit)								✓				✓		
AIX 5.2 (32-bit)								✓				✓		

**NOTE:** 1) Autoloaders are only supported in Direct Attach SCSI configurations

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DAS Support	Operating System 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	Native	
<b>AutoLoaders<sup>1</sup></b>														
1/8 DLT vs80 Tape Autoloader	HP-UX 11.0	✓											✓	
	HP-UX 11.11	✓											✓	
	HP-UX 11.23	✓												
	Windows NT 4.0	✓	✓	✓	✓	✓	✓		✓		✓			
	Windows 2000 Server/AS	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	
	Windows Server 2003 (32-bit)	✓			✓			✓					✓	
	Windows Server 2003 (64-bit)	✓												
	Tru64 5.1													
	Tru64 5.1A													
	Tru64 5.1B													
	Red Hat Advanced Server 2.1 (32-bit)								✓					✓
	Red Hat Advanced Server 2.1 (64-bit)	✓							✓					
	Red Hat Enterprise LINUX 3.0 (32-bit)													
	Red Hat Enterprise LINUX 3.0 (64-bit)													
	United Linux 1.0/SuSE SLES 8 (32-bit)								✓					
	United Linux 1.0/SuSE SLES 8 (64-bit)	✓							✓					
	NetWare 5.1	✓				✓						✓		
	NetWare 6.0	✓				✓						✓		
	NetWare 6.5													
	Solaris 7								✓					
Solaris 8								✓						
Solaris 9								✓						
AIX 4.3.3 (32-bit)														
AIX 5.1L (32-bit)														
AIX 5.2 (32-bit)														
SSL1016 DLT1 Tape Autoloader	HP-UX 11.0							✓		✓				
	HP-UX 11.11							✓		✓				
	HP-UX 11.23	✓												
	Windows NT 4.0	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓		
	Windows 2000 Server/AS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	Windows Server 2003 (32-bit)									✓				
	Windows Server 2003 (64-bit)	✓								✓				
	Tru64 5.1							✓						
	Tru64 5.1A							✓						
	Tru64 5.1B							✓						
	Red Hat Advanced Server 2.1 (32-bit)								✓					
	Red Hat Advanced Server 2.1 (64-bit)	✓							✓					
	Red Hat Enterprise LINUX 3.0 (32-bit)													
	Red Hat Enterprise LINUX 3.0 (64-bit)													
	United Linux 1.0/SuSE SLES 8 (32-bit)								✓					
	United Linux 1.0/SuSE SLES 8 (64-bit)	✓							✓					
	NetWare 5.1					✓								
	NetWare 6.0					✓								
	NetWare 6.5													
	Solaris 7								✓		✓			
Solaris 8								✓		✓				
Solaris 9								✓						
AIX 4.3.3 (32-bit)								✓		✓				
AIX 5.1L (32-bit)										✓				
AIX 5.2 (32-bit)														

**NOTE:** 1) Autoloaders are only supported in Direct Attach SCSI configurations

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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
<b>Operating Systems <sup>6</sup></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>	✓ <sup>2</sup>	✓	✓ <sup>2</sup>	✓		✓
HP-UX 11.23	✓						✓				
Windows NT 4.0		✓	✓	✓ <sup>5</sup>	✓	✓		✓	✓	✓	✓
Windows 2000 Server/AS	✓	✓	✓	✓ <sup>5</sup>	✓	✓	✓	✓	✓	✓	✓
Windows Server 2003 (32-bit)	✓			✓ <sup>5</sup>	✓	✓	✓	✓	✓	✓	✓
Windows Server 2003 (64-bit)	✓					✓	✓	✓	✓		
Tru64 5.1 <sup>3</sup>							✓				✓
Tru64 5.1A <sup>3</sup>	✓	✓	✓		✓	✓	✓	✓			✓
Tru64 5.1B <sup>3</sup>	✓					✓	✓	✓			✓
OpenVMS 7.3-1 <sup>3, 7, 8</sup>	✓										
Red Hat Advanced Server 2.1 (32-bit)	✓					✓	✓	✓			✓
Red Hat Advanced Server 2.1 (64-bit)	✓						✓				
Red Hat Enterprise LINUX 3.0 (32-bit)							✓				
Red Hat Enterprise LINUX 3.0 (64-bit)							✓				
United Linux 1.0/SuSE SLES 8 (32-bit)	✓						✓				
United Linux 1.0/SuSE SLES 8 (64-bit)	✓										
NetWare 5.1	✓		✓	✓ <sup>5</sup>				✓		✓	
NetWare 6.0	✓			✓ <sup>5</sup>		✓		✓		✓	
NetWare 6.5	✓			✓ <sup>5</sup>		✓				✓	
Solaris 7	✓					✓	✓		✓		✓
Solaris 8	✓	✓	✓		✓	✓	✓	✓	✓		✓
Solaris 9	✓				✓	✓	✓	✓	✓		✓
AIX 4.3.3	✓ <sup>4</sup>		✓			✓	✓		✓		✓
AIX 5.1L						✓	✓ <sup>1</sup>	✓	✓		✓
AIX 5.2						✓			✓		✓

## NOTES:

1) DLT8000 products not supported

2) A-Class, L-Class, N-Class, and V-Class servers only

3) Ultrium 230 (LTO) not supported

4) Robot control is performed on Windows platform

5) Supports ESL9000 libraries in a homogeneous environment only

6) Other Operating Systems not listed above may be supported within EBS by the respective ISVs as LAN clients

7) Supported only with the original version 7.3-1 mk driver (SYS\$MKDRIVER.EXE)

8) Refer to <http://h71000.www7.hp.com/openvms/Storage.html> for additional data protection applications and solution information for OpenVMS, which includes HP and 3rd Party Heterogeneous Backup Solutions, as well as OpenVMS-specific solutions including ABS (Archive Backup Systems) and SLS (Storage Library System)

OS Version Details >>



# STORAGE HARDWARE / SOFTWARE COMPATIBILITY MATRIX

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March 2004

DAS, DAF, and SAN Support	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>Operating Systems</b>												
HP-UX 11.0	(HWE 1100) September 2003	(HWE 1100) September 2003		11.0		11.00 w/SP56 (HWE 11.0) PHKL_25769	(HWE 1100) September 2003	(HWE 1100) September 2003	(HWE 1100) September 2003	(HWE 1100) September 2003		(HWE 1100) September 2003
HP-UX 11.11	(HWEnable11i) September 2003	(HWEnable11i) September 2003	11.11			11.11 w/SP56 (HWE 11.11) PHKL_22857	(HWEnable11i) September 2003	(HWEnable11i) September 2003	(HWEnable11i) September 2003	(HWEnable11i) September 2003		(HWEnable11i) September 2003
HP-UX 11.23	11.23	11.23						11.23				
Windows NT 4.0	sp6a	sp6a	sp6a	sp6a	sp6a	sp6a	sp6a	sp6a	sp6a	sp6a	sp6a	sp6a
Windows 2000 Server/AS	sp4	sp4	sp2	sp2	sp4	sp4	sp4	sp4	sp4	sp4	sp4	sp4
Windows Server 2003 (32-bit)	✓	✓			✓	✓	✓	✓	✓	✓	✓	
Windows Server 2003 (64-bit)	✓	✓					✓		✓	✓		
Tru64 5.1	5.1 pk6							5.1 pk6				5.1 pk6
Tru64 5.1A	5.1A pk4	5.1A pk4	5.1A	5.1A		5.1A pk4	5.1A pk4	5.1A pk4	5.1A pk4			5.1A pk4
Tru64 5.1B	5.1B pk1 (ipk)	5.1B pk1 (ipk)					5.1B pk1 (ipk)	5.1B pk1 (ipk)	5.1B pk1 (ipk)			5.1B pk1 (ipk)
OpenVMS 7.3-1 <sup>1</sup>	7.3-1	7.3-1										
Red Hat Advanced Server 2.1 (32-bit)	✓ <sup>2</sup>	✓ <sup>2</sup>					✓ <sup>2</sup>	✓ <sup>2</sup>	✓ <sup>2</sup>			✓ <sup>2</sup>
Red Hat Advanced Server 2.1 (64-bit)	✓ <sup>2</sup>	✓ <sup>2</sup>						✓ <sup>2</sup>				
Red Hat Enterprise LINUX 3.0 (32-bit)								✓ <sup>2</sup>				
Red Hat Enterprise LINUX 3.0 (64-bit)								✓ <sup>2</sup>				
United Linux 1.0/SuSE SLES 8 (32-bit)	✓ <sup>2</sup>	✓ <sup>2</sup>						✓ <sup>2</sup>				
United Linux 1.0/SuSE SLES 8 (64-bit)	✓ <sup>2</sup>	✓ <sup>2</sup>										
NetWare 5.1	5.1 sp7	5.1 sp7		5.1 sp5	5.1 sp7				5.1 sp6		5.1 sp6	
NetWare 6.0	6.0 sp4	6.0 sp4			6.0 sp4		6.0 sp4		6.0 sp3		6.0 sp3	
NetWare 6.5	6.5 sp1	6.5 sp1			6.5 sp1		6.5 sp1				6.5	
Solaris 7	7	7					7	7		7		7
Solaris 8	8	8	8	8		8	8	8	8	8		8
Solaris 9	9	9				9	9	9	9	9		9
AIX 4.3.3	4.3.3	4.3.3		4.3.3			4.3.3	4.3.3		4.3.3		4.3.3
AIX 5.1L	5.1L						5.1L	5.1L	5.1L	5.1L		5.1L
AIX 5.2	5.2						5.2			5.2		5.2

**NOTES:**

- 1) Supported only with the original version 7.3-1 mk driver (SYS\$MKDRIVER.EXE)
- 2) EBS is not dependent on specific kernel errata levels. For required/supported kernel erratas, refer to your online storage array's support documentation.

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March 2004

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>High Availability<sup>3</sup></b>											
HP-UX (Service Guard) <sup>1</sup>	✓ <sup>2</sup>										✓ <sup>2</sup>
Windows (MSCS)	✓	✓	✓			✓	✓	✓	✓	✓	✓
Tru64 (TruCluster)		✓					✓	✓			✓
NetWare 5.1 (NWCS)										✓	
NetWare 6.0 (NWCS)						✓		✓		✓	
NetWare 6.5 (NWCS)						✓					
Solaris											✓

**NOTES:**

- 1) Supported on XP and VA raid array products only
- 2) ATS is not supported
- 3) Refer to the EBS Design Guide for details on failover configurations  
 For Operating Systems not listed, please refer to the ISV's web page for supported High Availability configurations.

# 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 | Legacy Support

March 2004

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</sup>	✓			✓	✓	HP-UX, NT, WIN 2000, WIN 2003, Tru64, and Solaris only	✓	HP-UX, NT/WIN 2000, WIN 2003, and Solaris only	HP-UX and NT/WIN2K only	✓	✓
XP 48/512 <sup>1</sup>	✓			✓	✓	HP-UX, NT, WIN 2000, WIN 2003, Tru64, and Solaris only	✓	HP-UX, NT/WIN 2000, WIN 2003, and Solaris only	HP-UX and NT/WIN2K only	✓	✓
Zero Downtime with XP	✓										
Instant Recovery with XP	✓										
Enterprise Virtual Array EVA 5000 <sup>1,3</sup>	✓	NT/WIN2K only	NT/WIN2K only	✓	✓	✓	✓	✓	✓	✓	✓
Enterprise Virtual Array EVA 3000 <sup>1,3</sup>	✓	NT/WIN2K only	NT/WIN2K only	✓	✓	✓	✓	✓	✓	✓	✓
VA 7410/7110 <sup>1</sup>	✓			✓			✓			✓	✓
VA 7400/7100 <sup>1</sup>	✓			✓			✓			✓	✓
EMA 16000 <sup>1</sup>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
EMA 12000/8000 <sup>1</sup>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MSA1000 <sup>2, 3</sup>	✓	NT/WIN2K only	NT/WIN2K only	✓	✓	✓	✓	NT/WIN2K and NetWare only	✓	✓	✓

## NOTES:

- 1) Consult with your hp solutions provider for disk array SAN compatibility information
- 2) For compatibility information about the optional MSA SAN Switch, refer to the [Infrastructure](#) page within this document for support details
- 3) NetWare supported with FCA2210 HBA only

# 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 | Legacy Support

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SAN Support	E2400-160 FC Interface Controller	NSR E1200-160	NSR E2400	NSR E1200	NSR M2402	NSR N1200
<b>Interconnects</b> <sup>1</sup>						
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	✓	✓	✓	✓	✓	✓
Cisco MDS 9506	✓	✓	✓	✓	✓	✓
Cisco MDS 9509	✓	✓	✓	✓	✓	✓
Cisco MDS 9216	✓	✓	✓	✓	✓	✓
Cisco MDS 9120	✓	✓	✓	✓	✓	✓
Cisco MDS 9140	✓	✓	✓	✓	✓	✓
MSA SAN Switch 2/8	✓	✓	✓	✓	✓	✓

## 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

**Interface Controller and Serverless Support >>**

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March 2004

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>Fibre Channel Interface Controller</b>											
Interface Manager	✓			✓		✓	✓		✓	✓	✓
E2400-160 FC Interface Controller	✓			✓	✓	✓	✓	✓	✓	✓	✓
NSR E1200-160	✓			✓	✓	✓	✓	✓	✓	✓	✓
NSR E2400	✓			✓	✓	✓	✓	✓	✓	✓	✓
NSR E1200	✓			✓	✓	✓	✓	✓	✓	✓	✓
NSR M2402	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NSR N1200	✓			✓	✓	✓	✓	✓	✓	✓	✓
<b>Serverless Backup (SAN Support Only)</b>											
NSR E2400				✓ <sup>3</sup>	✓ <sup>3</sup>					✓ <sup>4</sup>	✓ <sup>5</sup>
NSR E1200				✓ <sup>3</sup>	✓ <sup>3</sup>					✓ <sup>4</sup>	✓ <sup>5</sup>
NSR M2402				✓ <sup>3</sup>	✓ <sup>3</sup>					✓ <sup>4</sup>	✓ <sup>5</sup>
NSR N1200				✓ <sup>3</sup>	✓ <sup>3</sup>					✓ <sup>4</sup>	✓ <sup>5</sup>

**NOTES:**

- 1) MDR does not support Ultrium 230, Ultrium 460, and SDLT 2 libraries
- 2) MDR does not support Direct Attach Fibre (DAF) configurations
- 3) Windows 2000 Serverless option with HSG only
- 4) Windows 2000 ServerFree opt with HSG, HSV, MSA1000 only
- 5) Solaris 8 VERITAS NetBackup 4.5 nbu\_snap w/ HSG only (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 | Legacy Support

March 2004

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 Integrity Superdome & Mid-Range (rx7000-rx8000, IA-64) <sup>3</sup>	✓						✓				
HP 9000 Superdome & Mid-Range (rp7000-rp8000, PA-RISC) <sup>3</sup>	✓						✓				✓
HP 9000 Entry-Level (rp1000-rp6000, PA-RISC)	✓				✓	✓	✓	✓	✓		✓
HP Integrity Entry-Level (rx1000-rx6000, IA-64)	✓ <sup>2</sup>						✓	✓	✓		
HP A, L, N, and V Class (pa-risc)	✓	✓	✓		✓	✓	✓	✓	✓		✓
HP K, R, and D Class (pa-risc) <sup>1</sup>	✓										
HP ProLiant	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HP ProLiant Blade Server	✓			✓		✓	✓	✓	✓	✓	✓
HP NetServer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HP AlphaServer	✓	✓	✓		✓	✓	✓	✓			✓
IBM RS/6000	✓		✓			✓	✓	✓	✓		✓
Sun UltraSPARC	✓	✓	✓		✓	✓	✓	✓	✓		✓
Sun Sun Fire	✓				✓	✓	✓	✓	✓		✓
Third Party X86	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>Workstations</b>											
HP xz series (IA) <sup>2</sup>	✓										
HP B-Class B2000 (pa-risc)	✓										✓
HP C-Class C3600, C3700 (pa-risc)	✓										✓
HP J-Class J6700, J6750 (pa-risc)	✓										✓
<b>NAS</b>											
NAS 9000s	✓			✓		✓					
NAS 4000s	✓			✓		✓					
NAS 8000	✓							✓			
NAS e7000	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NAS B3000	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NAS B2000	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

**NOTES:**

1) Ultrium 230 support only

2) Data Protector 5.0 support in 32-bit emulation mode

3) Only Enterprise and Mid-Range Libraries supported.

# STORAGE HARDWARE / SOFTWARE COMPATIBILITY MATRIX

Libraries | AutoLoaders | Operating Systems | RAID Arrays | Infrastructure | Servers | Fibre HBAs Next>>  
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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 (IA-64)</b>											
A6795A (2G)	✓						✓				
A6826A (2G)											
<b>HP-UX (PA-RISC)</b>											
A6826A (2G)	✓ <sup>2</sup>						✓ <sup>2</sup>		✓		✓
A6795A (2G)	✓				✓	✓	✓	✓	✓		✓
A6685A (1G)	✓						✓				✓
A5158A (1G)	✓	✓	✓		✓	✓	✓	✓	✓		✓
<b>OpenVMS</b>											
FCA2384 (2G - PCI-X)	✓										
<b>Tru64</b>											
FCA2354 (2G - PCI)	✓				✓	✓	✓	✓			✓
FCA2384 (2G - PCI-X)	✓						✓				✓
KGPSA -CA (1G - PCI)	✓	✓	✓		✓	✓	✓	✓			✓
<b>Solaris</b>											
FCA2257P (2G - PCI)	✓				✓	✓	✓	✓	✓		✓
FCA2257C (1G - cPCI)	✓				✓	✓	✓	✓	✓		✓
FCA2257S (1G - SBus)	✓				✓	✓	✓	✓	✓		✓
SWSA4-SC 64-bit (1G - SBus)	✓	✓	✓		✓	✓	✓	✓	✓		✓
SWSA4-PC 32-bit (1G - PCI)							✓		✓		✓
SG-XPCI2FC-QF2 (X6768A) (2G - PCI-X)						✓ <sup>3</sup>					✓ <sup>3</sup>
SG-XPCI1FC-QF2 (X6767A) (2G - PCI-X)						✓ <sup>3</sup>					✓ <sup>3</sup>
FCX-6562/FCX2-6562 (2G - PCI)											
JNI FCE6460 (2G - PCI)	✓				✓	✓	✓	✓	✓		✓
JNI FCC6460 (2G - cPCI)	✓				✓	✓	✓	✓	✓		✓
JNI FCE6410 (1G - PCI)	✓						✓				✓
<b>AIX</b>											
Cambex PC2000 (2G - PCI)						✓					✓
IBM 6228 (2G)	✓					✓	✓	✓	✓		✓
PCI-to-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

2) DAF support only

3) Solaris 9 support only

# 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 | Legacy Support

March 2004

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 - HP Branded</b>											
FCA2355 (2G)	NT/2000/2003			NT/2000/2003	NT/2000/2003	NT/2000/2003	2000/2003	NT/2000/2003	NT/2000/2003	NT/2000/2003	NT/2000/2003
FCA2408 (2G)	2000/2003			2000/2003		2000/2003	2000/2003	2000/2003	2000/2003	2000/2003	2000/2003
ISP2312 (2G - BL20pG2 Blade Server)	2000/2003			2000/2003		2000/2003	2000/2003	2000/2003	2000/2003	2000/2003	2000/2003
FCA2101 (2G)	NT/2000/2003			NT/2000/2003	NT/2000/2003	NT/2000/2003	2000/2003	NT/2000/2003	NT/2000/2003	NT/2000/2003	NT/2000/2003
FCA2404 (2G)	2000/2003			2000/2003		2000/2003	2000/2003		2000/2003	2000/2003	2000/2003
FCA2404DC (2G)	2000/2003			2000/2003		2000/2003	2000/2003		2000/2003	2000/2003	2000/2003
FCA2214/2214DC (2G)	2000/2003			2000/2003		2000/2003	2000/2003	2000/2003	2000/2003	2000/2003	2000/2003
64-bit/33MHz PCI to FC (1G) KGPSA-CB	NT/2000/2003	NT/2000/2003	NT/2000/2003	NT/2000/2003	NT/2000/2003	NT/2000/2003	2000/2003	NT/2000/2003	NT/2000/2003	NT/2000/2003	NT/2000/2003
<b>Windows - HP Branded (IA64)</b>											
A7298A (2G)	✓					✓	✓		✓		
AB232A (2G)	✓					✓	✓		✓		
<b>Windows - 3rd Party</b>											
Emulex LP982 <sup>6</sup>	✓										✓
<b>LINUX</b>											
FCA2214 (2G)	✓					✓	✓	✓			✓
ISP2312 (2G - BL20pG2 Blade Server)	✓					✓	✓	✓			✓
QLA2200 (1G)	✓						✓	✓			
<b>LINUX (IA64)</b>											
A6826A	✓						✓				
<b>NetWare</b>											
FCA2210 (2G) <sup>3</sup>	✓ <sup>7</sup>			✓		✓		✓		✓	
64-bit / 66 MHz PCI to FC HBA (1G) <sup>2, 4, 5</sup>	✓ <sup>7</sup>		✓	✓				✓		✓	
32-bit / 33 MHz HBA (1G) <sup>2, 4, 5</sup>	✓ <sup>7</sup>			✓				✓		✓	

## 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 and MSA1000. Supports HSG80 arrays with NetWare 5.1 and 6.0 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).

5) Not supported with CA ARCserve 9.0 for NetWare

6) Supported for tape connectivity only. Support is limited to full-port driver 2.21a0 and firmware 1.01a2

7) Support is limited to single path configurations only



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## HP Branded SCSI Host Bus Adapters<sup>3</sup>

Windows	HP-UX	LINUX	Tru64	NetWare
268351-B21 Ultra320, LVD, Dual Channel, VHDCI	A6829A Ultra160, LVD, Dual Channel, VHDCI	268351-B21 Ultra320, LVD, Dual Channel, VHDCI	3X-KZPCA-AA Ultra80, LVD, Dual Channel, HD68	268351-B21 Ultra320, LVD, Dual Channel, VHDCI
284688-B21 Ultra160, LVD, Dual Channel, VHDCI	A6828A Ultra160, LVD, Single Channel, VHDCI	284688-B21 Ultra160, LVD, Dual Channel, VHDCI		284688-B21 Ultra160, LVD, Dual Channel, VHDCI
C7474A Ultra160, LVD, Single Channel, VHDCI	A5149A Ultra80, LVD, Single Channel, VHDCI	A7059A <sup>2</sup> Ultra160, LVD, Single Channel, VHDCI		129803-B21 Ultra160, LVD, Dual Channel, VHDCI
154457-B21 Ultra160, LVD, Single Channel, HD68	A5150A Ultra80, LVD, Dual Channel, VHDCI	A7060A <sup>2</sup> Ultra160, LVD, Dual Channel, VHDCI		154457-B21 Ultra160, LVD, Single Channel, HD68
A7059A <sup>2</sup> Ultra160, LVD, Single Channel, VHDCI	A4974A <sup>1</sup> Ultra, SE, Single Channel, HD68	C7474A Ultra160, LVD, Single Channel, VHDCI		C7474A Ultra160, LVD, Single Channel, VHDCI
A7060A <sup>2</sup> Ultra160, LVD, Dual Channel, VHDCI	A4999A <sup>1</sup> Ultra80, LVD, Single Channel, VHDCI	154457-B21 Ultra160, LVD, Single Channel, HD68		348757-B21 Ultra80, LVD, Dual Channel, VHDCI
129803-B21 Ultra160, LVD, Dual Channel, VHDCI	A5838A Ultra80, LVD, Dual Channel, VHDCI	129803-B21 Ultra160, LVD, Dual Channel, VHDCI		
348757-B21 Ultra80, LVD, Dual Channel, VHDCI	A2679A Ultra80, LVD, Single Channel, HD68			

### NOTES:

- 1) Supported on HP-UX Workstations only
- 2) Windows IA-64 support only
- 3) Refer to the Server QuickSpecs to determine which SCSI HBAs are supported

Third Party and Native SCSI HBAs >>

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Third Party SCSI HBA and Integrated SCSI Controllers <sup>2</sup>		
Windows	Linux	NetWare
Adaptec 29320 Ultra320, LVD, Single Channel	Adaptec 29320 Ultra320, LVD, Single Channel	Adaptec 29320 Ultra320, LVD, Single Channel
Adaptec 29160 Ultra160, LVD, Single Channel	Adaptec 29160 Ultra160, LVD, Single Channel	Adaptec 29160 Ultra160, LVD, Single Channel
Adaptec 39160 Ultra160, LVD, Dual Channel	Adaptec 39160 Ultra160, LVD, Dual Channel	Adaptec 39160 Ultra160, LVD, Dual Channel
Symbios/LSI 22915 Ultra160, LVD, Dual Channel		
Symbios/LSI 22903 Ultra160, LVD, Dual Channel		
Symbios/LSI 8951 Ultra80, LVD, Single Channel		
Integrated Smart Array 5i/5i Plus <sup>1</sup> Ultra160, LVD, Single Channel		
ProLiant Integrated SCSI Ultra160, LVD, Single and Dual Channel		

## NOTES:

- 1) Supported only with Enterprise and Mid-Range Libraries; SSL1016 Ultrium 460, 1/8 Ultrium 460, and 1/8 Ultrium 230 tape autoloaders
- 2) For Solaris and AIX configurations, EBS supports all SCSI HBA's supported by the server hardware manufacturer.  
Refer to the server manufacturer's web site for supported HBA/server platform/operating system combinations.



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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
<b>Disk Array Multipath<sup>1</sup></b>											
AutoPath for HP-UX <sup>1</sup>	✓						✓				✓
Secure Path for HP-UX <sup>1</sup>	✓				✓	✓	✓	✓	✓		✓
Secure Path for Windows <sup>1</sup>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AutoPath for Windows 2000 <sup>1</sup>	✓			✓			✓		✓	✓	✓
AutoPath for Windows 2003 <sup>1</sup>				✓			✓			✓	
Tru64 Multipath <sup>2</sup>					✓	✓	✓	✓			✓
Secure Path for NetWare <sup>1,3</sup>				✓		✓		✓		✓	
Secure Path for Solaris <sup>1</sup>	✓				✓	✓	✓	✓	✓		✓
Secure Path for AIX <sup>1</sup>						✓	✓	✓	✓		✓

## 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
- 2) Multipath to tape supported
- 3) MSA1000 and EVA require FCA-2210 HBA with a minimum Secure Path version of 3.0c. HSG80 arrays with FCA-2210 HBA require a minimum Secure Path version of 3.0c SP2.

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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
<b>Enterprise Libraries</b>												
<b>ESL E-Series 712e</b>												
Robot FW	1.01	1.01			1.01		1.01	1.01			1.01	1.01
Drive FW Ultrium 460	F43W	F43W			F43W		F43W	F43W			F43W	F43W
<b>ESL E-Series 630e</b>												
Robot FW	1.01	1.01			1.01		1.01	1.01			1.01	1.01
Drive FW SDLT 160/320	v75	v75			v75		v75	v75			v75	v75
<b>ESL 9595 (Ultrium 460)</b>												
Robot FW	3.48	3.48			3.48	3.40	3.48	3.48	3.48	3.48	3.48	3.48
Drive FW Ultrium 460	F43W	F43W			F43W	F3CW	F43W	F43W	F43W	F43W	F43W	F43W
<b>ESL 9595 (Ultrium 230)</b>												
Robot FW	3.48	3.48			3.48	3.40	3.48	3.48	3.48	3.48	3.48	3.48
Drive FW Ultrium 230	E38W	E38W			E38W	E33W	E38W	E38W	E38W	E38W	E38W	E38W
<b>ESL 9595 S2</b>												
Robot FW	3.48	3.48			3.48	3.40	3.48	3.48	3.48	3.48	3.48	3.48
Drive FW SDLT 160/320	v75	v75			v75	v52	v75	v75	v75	v75	v75	v75
<b>ESL 9595 SL</b>												
Robot FW	3.48	3.48	3.20p5	3.20p5	3.48	3.40	3.48	3.48	3.48	3.48	3.48	3.48
Drive FW SDLT 110/220	v75	v75	V35	V35	v75	v51	v75	v75	v75	v75	v75	v75
<b>ESL 9326 SL</b>												
Robot FW	3.48	3.48	3.20p5	3.20p5	3.48	3.40	3.48	3.48	3.48	3.48	3.48	3.48
Drive FW SDLT 110/220	v75	v75	V35	V35	v75	v51	v75	v75	v75	v75	v75	v75
<b>ESL 9326 DX</b>												
Robot FW	3.48	3.48	3.20p5	3.20p5	3.48	3.40	3.48	3.48	3.48	3.48	3.48	3.48
Drive FW 40/80	v86	v86	V80	V80	v86	V80	v86	v86	v80	v86	v86	v86
<b>ESL 9322 (Ultrium 460)</b>												
Robot FW	3.48	3.48			3.48	3.40	3.48	3.48	3.48	3.48	3.48	3.48
Drive FW Ultrium 460	F43W	F43W			F43W	F3CW	F43W	F43W	F43W	F43W	F43W	F43W
<b>ESL 9322 (Ultrium 230)</b>												
Robot FW	3.48	3.48			3.48	3.40	3.48	3.48	3.48	3.48	3.48	3.48
Drive FW Ultrium 230	E38W	E38W			E38W	E33W	E38W	E38W	E38W	E38W	E38W	E38W
<b>ESL 9322 S2</b>												
Robot FW	3.48	3.48			3.48	3.40	3.48	3.48	3.48	3.48	3.48	3.48
Drive FW SDLT 160/320	v75	v75			v75	v52	v75	v75	v75	v75	v75	v75
<b>ESL 9198 SL</b>												
Robot FW	3.48	3.48	3.20p5	3.20p5	3.48	3.40	3.48	3.48	3.48	3.48	3.48	3.48
Drive FW SDLT 110/220	v75	v75	V35	V35	v75	v51	v75	v75	v75	v75	v75	v75
<b>ESL 9198 DLX</b>												
Robot FW	3.48	3.48	3.20p5	3.20p5	3.48	3.40	3.48	3.48	3.48	3.48	3.48	3.48
Drive FW 40/80	v86	v86	V80	V80	v86	v80	V80	v86	v80	v86	v86	v86

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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
<b>Mid-Range Libraries</b>												
<b>MSL 6060 (Ultrium 460)</b>												
Robot FW	4.23	4.23			4.23	4.14	4.23	4.23	4.14	4.23	4.23	4.23
Drive FW Ultrium 460	F43W	F43W			F43W	F3CW	F43W	F43W	F43W	F43W	F43W	F43W
<b>MSL 5060 L1</b>												
Robot FW	4.23	4.23			4.23	4.14	4.23	4.23	4.14	4.23	4.23	4.23
Drive FW Ultrium 230	E38W	E38W			E38W	E33W	E38W	E38W	E38W	E38W	E38W	E38W
<b>MSL 5052 S2</b>												
Robot FW	4.23	4.23			4.23	4.14	4.23	4.23	4.14	4.23	4.23	4.23
Drive FW SDLT 160/320	v75	v75			v75	v52	v75	v75	v75	v75	v75	v75
<b>MSL 5052 SL</b>												
Robot FW	4.23	4.23	3.11	3.11	4.23	4.14	4.23	4.23	4.14	4.23	4.23	4.23
Drive FW SDLT 110/220	v75	v75	V35	V35	v75	v51	v75	v75	v75	v75	v75	v75
<b>MSL 6030 (Ultrium 460)</b>												
Robot FW	4.23	4.23			4.23	4.14	4.23	4.23	4.14	4.23	4.23	4.23
Drive FW Ultrium 460	F43W	F43W			F43W	F3CW	F43W	F43W	F43W	F43W	F43W	F43W
<b>MSL 5030 L1</b>												
Robot FW	4.23	4.23			4.23	4.14	4.23	4.23	4.14	4.23	4.23	4.23
Drive FW Ultrium 230	E38W	E38W			E38W	E33W	E38W	E33W	E38W	E38W	E38W	E38W
<b>MSL 5026 S2</b>												
Robot FW	4.23	4.23			4.23	4.14	4.23	4.23	4.14	4.23	4.23	4.23
Drive FW SDLT 160/320	v75	v75			v75	v52	v75	v75	v75	v75	v75	v75
<b>MSL 5026 SL</b>												
Robot FW	4.23	4.23	3.11	3.11	4.23	4.14	4.23	4.23	4.14	4.23	4.23	4.23
SDLT 110/220 FW	v75	v75	V35	V35	v75	v51	v75	v75	v75	v75	v75	v75
<b>MSL 5026 DLX</b>												
Robot FW	4.23	4.23	3.11	3.11	4.23	4.14	4.23	4.23	4.14	4.23	4.23	4.23
Drive FW 40/80	v86	v86	V80	V80	v86	v80	V80	v86	v80	v86	v86	v86
<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	4.16
Drive FW AIT50	1.35	1.35	1.30	1.30	1.35		1.30	1.35	1.27	1.35	1.35	1.35

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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
<b>Autoloaders</b>												
<b>SSL1016 Ultrium 460</b>												
Robot FW	v20	v20			v20	v10	v10	v20	v10	v20	v20	v20
Drive FW Ultrium 460	F43W	F43W			F43W	F43W	F43W	F43W	F43W	F43W	F43W	F43W
<b>1/8 Ultrium 460</b>												
Robot FW	N12r	N12r			N12r		N12r	N12r			N12r	N12r
Drive FW Ultrium 460	F78V	F78V			F78V		F78V	F78V			F78V	F78V
<b>1/8 Ultrium 230</b>												
Robot FW	H43r	H43r			H43r	H33r	H43r	H43r	H33r	H43r	H43r	H43r
Drive FW Ultrium 230	E30P	E30P			E30P	E00P	E33P	E30P	E00P	E30P	E30P	E30P
<b>1/8 DLT vs80</b>												
Robot FW	0110	0110	0110	0110	0110	0110	0110	0110	0110		0110	
Drive FW vs80	v56	v56	v56	v56	v56	v56	v56	v56	v56		v56	
<b>1/8 Ultrium SDLT160/320</b>												
Robot FW	L12r	L12r			L12r			L12r			L12r	L12r
Drive FW SDLT 160/320	v75	v75			v75			v75			v75	v75
<b>SSL1016 SDLT160/320</b>												
Robot FW	v40	v40			v40	v31	v31	v40	v31		v40	v40
Drive FW SDLT 160/320	v75	v75			v75	v52	v75	v75	v75		v75	v75
<b>SSL1016 DLT1</b>												
Robot FW	v40	v40	v31	v31	v40	v13	v13	v40	v31	v40	v40	v40
Drive FW DLT 1	v63	v63	v53	v53	v63	v46	v46	v63	v53	v63	v63	v63
<b>Fibre Channel Interface</b>												
<b>Controllers</b>												
Interface Manager	i110	i110			i110		i110	i110		i110	i110	i110
NSR M2402	5.3.0b	5.3.0b	4.02	4.02	5.3.0b	5.3.0b	5.3.0b	5.3.0b	5.3.0b	5.3.0b	5.3.0b	5.3.0b
NSR N1200	5.3.0b	5.3.0b			5.3.0b	5.3.0b	5.3.0b	5.3.0b	5.3.0b	5.3.0b	5.3.0b	5.3.0b
NSR E2400	5.3.0b	5.3.0b			5.3.0b	5.3.0b	5.3.0b	5.3.0b	5.3.0b	5.3.0b	5.3.0b	5.3.0b
NSR E2400-160	5.3.0b	5.3.0b			5.3.0b	5.3.0b	5.3.0b	5.3.0b	5.3.0b	5.3.0b	5.3.0b	5.3.0b
NSR E1200-160	5.3.0b	5.3.0b			5.3.0b	5.3.0b	5.3.0b	5.3.0b	5.3.0b	5.3.0b	5.3.0b	5.3.0b
NSR E1200	5.3.0b	5.3.0b			5.3.0b	5.3.0b	5.3.0b	5.3.0b	5.3.0b	5.3.0b	5.3.0b	5.3.0b
<b>Tools and Utilities</b>												
Smart Start	7.0	7.0	5.30	5.30	7.0	6.40	7.0	7.0	6.40	7.0	7.0	7.0
Insight Manager	7.0	7.0			7.0	6.40	7.0	7.0	6.40	7.0	7.0	7.0
<b>Disk Array Multipath Support</b>												
AutoPath for HP-UX	2.01.02	2.01.02						2.01.02				2.01.02
Secure Path for HP-UX	3.0C	3.0C				3.0B	3.0C	3.0C	3.0B	3.0C		3.0C
Secure Path for Windows	4.0C	4.0C	v3.1A sp2	v3.1A sp2	4.0C	4.0B	4.0C	4.0C	4.0B	4.0C	4.0C	4.0C
AutoPath for Windows 2000	2.01	2.01			2.01			2.01		2.01	2.01	2.01
AutoPath for Windows 2003	1.00				1.00			1.00			1.00	
Secure Path for LINUX	3.0A	3.0A										
Tru64 Multipath	Native					Native	Native	Native	Native			Native
Secure Path for NetWare	3.0C SP2				3.0C SP2		3.0C SP2		3.0C SP1		3.0C SP1	
Secure Path for Solaris	3.0C	3.0C				3.0B SP1	3.0C	3.0C	3.0B SP1	3.0C		3.0C
Secure Path for AIX	2.0D sp1						2.0D sp1	2.0B	2.0D sp1	2.0D sp1		2.0D sp1

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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
<b>Interconnects</b>												
Director Switch 2/140	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13
Director Switch 2/64	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13
Edge Switch 2/32	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13
Edge Switch 2/24	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13
Edge Switch 2/16	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13	05.02.00-13
Core Switch 2/64	4.1.2b	4.1.2b	4.1.2b	4.1.2b	4.1.2b	4.1.2b	4.1.2b	4.1.2b	4.1.2b	4.1.2b	4.1.2b	4.1.2b
SAN Switch 2/32	4.1.2b	4.1.2b	4.1.2b	4.1.2b	4.1.2b	4.1.2b	4.1.2b	4.1.2b	4.1.2b	4.1.2b	4.1.2b	4.1.2b
SAN Switch 2/16	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c
SAN Switch 2/8	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c
SAN Switch 2/16-EL	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c
SAN Switch 2/8-EL	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c
SAN Switch 16	2.6.1c	2.6.1c	2.6.1c	2.6.1c	2.6.1c	2.6.1c	2.6.1c	2.6.1c	2.6.1c	2.6.1c	2.6.1c	2.6.1c
SAN Switch 8	2.6.1c	2.6.1c	2.6.1c	2.6.1c	2.6.1c	2.6.1c	2.6.1c	2.6.1c	2.6.1c	2.6.1c	2.6.1c	2.6.1c
SAN Switch 16EL	2.6.1c	2.6.1c	2.6.1c	2.6.1c	2.6.1c	2.6.1c	2.6.1c	2.6.1c	2.6.1c	2.6.1c	2.6.1c	2.6.1c
SAN Switch 8EL	2.6.1c	2.6.1c	2.6.1c	2.6.1c	2.6.1c	2.6.1c	2.6.1c	2.6.1c	2.6.1c	2.6.1c	2.6.1c	2.6.1c
FC Switch 16B	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c
FC Switch 8B	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c
Cisco MDS 9506	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a
Cisco MDS 9509	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a
Cisco MDS 9216	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a
Cisco MDS 9120	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a
Cisco MDS 9140	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a	1.2.1a
MSA SAN Switch 2/8	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c	3.1.1c
<b>HP OpenView Storage Software</b>												
<b>OpenView</b>												
Storage Virtual Replicator	3.0b sp1				3.0b sp1			3.0b sp1		3.0b sp1	3.0b sp1	3.0b sp1
OV-SAM	3.1	3.1			3.1	3.0.2	3.1	3.1		3.1	3.1	3.1



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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
<b>Fibre Host Bus Adapters</b>												
<b>Windows - HP Branded</b>												
FCA2355 (2G)												
FW	3.91a1	3.91a1			3.91a1	3.91a1	3.91a1	3.91a1	3.91a1	3.91a1	3.91a1	3.91a1
WIN NT 4.0 Driver	4-4.82a16	4-4.82a16			4-4.82a16	4-4.82a16	4-4.82a16	4-4.82a16	4-4.82a16	4-4.82a16	4-4.82a16	4-4.82a16
WIN 2000 Driver	5-4.82a16	5-4.82a16			5-4.82a16	5-4.82a16	5-4.82a16	5-4.82a16	5-4.82a16	5-4.82a16	5-4.82a16	5-4.82a16
WIN 2003 Driver	5-4.82a16	5-4.82a16			5-4.82a16	5-4.82a16	5-4.82a16	5-4.82a16	5-4.82a16	5-4.82a16	5-4.82a16	5-4.82a16
FCA2408 (2G)												
FW	1.01a2	1.01a2			1.01a2		1.01a2	1.01a2	1.01a2	1.01a2	1.01a2	1.01a2
WIN 2000 Driver	5-4.82a16	5-4.82a16			5-4.82a16		5-4.82a16	5-4.82a16	5-4.82a16	5-4.82a16	5-4.82a16	5-4.82a16
WIN 2003 Driver	5-4.82a16	5-4.82a16			5-4.82a16		5-4.82a16	5-4.82a16	5-4.82a16	5-4.82a16	5-4.82a16	5-4.82a16
ISP2312 (2G - BL20pG2 Blade Server)												
FW	1.34	1.34			1.34		1.34	1.34	1.33	1.34	1.34	1.34
WIN 2000 Driver	8.2.0.73	8.2.0.73			8.2.0.73		8.2.0.73	8.2.0.73	8.2.0.72	8.2.0.73	8.2.0.73	8.2.0.73
WIN 2003 Driver	8.2.0.73	8.2.0.73			8.2.0.73		8.2.0.73	8.2.0.73	8.2.0.72	8.2.0.73	8.2.0.73	8.2.0.73
FCA2101 (2G)												
FW	3.91a1	3.91a1			3.91a1	3.91a1	3.91a1	3.91a1	3.91a1	3.91a1	3.91a1	3.91a1
WIN NT 4.0 Driver	4-4.82a16	4-4.82a16			4-4.82a16	4-4.82a16	4-4.82a16	4-4.82a16	4-4.82a16	4-4.82a16	4-4.82a16	4-4.82a16
WIN 2000 Driver	5-4.82a16	5-4.82a16			5-4.82a16	5-4.82a16	5-4.82a16	5-4.82a16	5-4.82a16	5-4.82a16	5-4.82a16	5-4.82a16
WIN 2003 Driver	5-4.82a16	5-4.82a16			5-4.82a16	5-4.82a16	5-4.82a16	5-4.82a16	5-4.82a16	5-4.82a16	5-4.82a16	5-4.82a16
FCA2404 (2G)												
FW	1.01a2	1.01a2			1.01a2		1.01a2	1.01a2		1.01a2	1.01a2	1.01a2
WIN 2000 Driver	5-4.82a16	5-4.82a16			5-4.82a16		5-4.82a16	5-4.82a16		5-4.82a16	5-4.82a16	5-4.82a16
WIN 2003 Driver	5-4.82a16	5-4.82a16			5-4.82a16		5-4.82a16	5-4.82a16		5-4.82a16	5-4.82a16	5-4.82a16
FCA2404DC (2G)												
FW	1.01a2	1.01a2			1.01a2		1.01a2	1.01a2		1.01a2	1.01a2	1.01a2
WIN 2000 Driver	5-4.82a16	5-4.82a16			5-4.82a16		5-4.82a16	5-4.82a16		5-4.82a16	5-4.82a16	5-4.82a16
WIN 2003 Driver	5-4.82a16	5-4.82a16			5-4.82a16		5-4.82a16	5-4.82a16		5-4.82a16	5-4.82a16	5-4.82a16
FCA2214/2214DC (2G)												
FW	1.34	1.34			1.34		1.34	1.34	1.33	1.34	1.34	1.34
WIN 2000 Driver	8.2.0.73	8.2.0.73			8.2.0.73		8.2.0.73	8.2.0.73	8.2.0.72	8.2.0.73	8.2.0.73	8.2.0.73
WIN 2003 Driver	8.2.0.73	8.2.0.73			8.2.0.73		8.2.0.73	8.2.0.73	8.2.0.72	8.2.0.73	8.2.0.73	8.2.0.73
64-bit/33MHz PCI to FC (1G) KGPSA-CB												
FW	3.91a1	3.91a1	3.82a1	3.82a1	3.91a1	3.91a1	3.91a1	3.91a1	3.91a1	3.91a1	3.91a1	3.91a1
WIN NT 4.0 Driver	4-4.82a16	4-4.82a16			4-4.82a16	4-4.82a16	4-4.82a16	4-4.82a16	4-4.82a16	4-4.82a16	4-4.82a16	4-4.82a16
WIN 2000 Driver	5-4.82a16	5-4.82a16	5-4.52a9	5-4.52a9	5-4.82a16	5-4.82a16	5-4.82a16	5-4.82a16	5-4.82a16	5-4.82a16	5-4.82a16	5-4.82a16
WIN 2003 Driver	5-4.82a16	5-4.82a16			5-4.82a16	5-4.82a16	5-4.82a16	5-4.82a16	5-4.82a16	5-4.82a16	5-4.82a16	5-4.82a16

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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
<b>Fibre Host Bus Adapters</b>												
<b>Windows - HP Branded (IA64)</b>												
A7298A (2G)												
FW	1.01a2	1.01a2					1.01a2	1.01a2		1.01a2		
WIN 2003 Driver	6-5.00a11	6-5.00a11					6-5.00a11	6-5.00a11		6-5.00a11		
AB232A (2G)												
FW	1.01a2	1.01a2					1.01a2	1.01a2		1.01a2		
WIN 2003 Driver	6-5.00a11	6-5.00a11					6-5.00a11	6-5.00a11		6-5.00a11		
<b>Windows - 3rd Party</b>												
Emulex LP982												
FW	1.01a2	1.01a2										1.01a2
WIN 2000 Driver	2.21a0	2.21a0										2.21a0
WIN 2003 Driver	2.21a0	2.21a0										2.21a0
<b>LINUX</b>												
FCA2214 (2G)												
FW	1.34	1.34					1.34	1.34	1.29			1.34
Linux Driver (Intel)	6.04.00	6.04.00					6.04.00	6.04.00	6.04.00			6.04.00
ISP2312 (2G - BL20pG2 Blade Server)												
FW	1.34	1.34					1.34	1.34	1.29			1.34
Linux Driver (Intel)	6.04.00	6.04.00					6.04.00	6.04.00	6.04.00			6.04.00
QLA2200 (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>LINUX (IA64)</b>												
A6826A (2G)												
FW												
RedHat Advanced Server 2.1 Driver	6.06.50-14	6.06.50-14						6.06.50-14				
United Linux Driver	6.06.50-9	6.06.50-9										
<b>NetWare</b>												
FCA2210 (2G)												
FW	1.34	1.34			1.34		1.34		1.34		1.34	
NetWare Driver	6.51b	6.50y			6.51b		6.51b		6.50y		6.50y	
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	

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<b>Fibre Host Bus Adapters</b>												
<b>HP-UX (IA-64)</b>												
A6795A (2G)												
FW	1.10	1.10						1.10				
fd Driver	Native	Native						Native				
A6826A (2G)												
FW												
fd Driver												
<b>HP-UX (PA-RISC)</b>												
A6826A (2G)												
fd Driver	Native									Native		Native
HP-UX 11.11 Driver	11.11.02									11.11.02		11.11.02
FW	3.02.165									3.02.165		3.02.165
A6795A (2G)												
HP-UX Driver	11.11.09 11.0.10	11.11.09 11.0.10				11.11.09 11.0.10	11.11.09 11.0.10	11.11.09 11.0.10	11.11.09 11.0.10	11.11.09 11.0.10		11.11.09 11.0.10
A6685A (1G)												
HP-UX Driver	11.11.09	11.11.09						11.11.09 11.0.10				11.11.09 11.0.10
A5158A (1G)												
HP-UX Driver	11.11.09 11.0.10	11.11.09 11.0.10	11.00.06	11.00.06		11.11.09 11.0.10	11.11.09 11.0.10	11.11.09 11.0.10	11.11.09 11.0.10	11.11.09 11.0.10		11.11.09 11.0.10
<b>Tru64</b>												
FCA2354												
FW	3.91a1	3.91a1				3.91a1	3.91a1	3.91a1	3.91a1			3.91a1
Tru64 Driver	2.06	2.06				2.06	2.06	2.06	2.06			2.06
FCA2384 (2G - PCI-X)												
FW	1.00x6 w/LFU	1.00x6 w/LFU						1.00x6 w/LFU				1.00x6 w/LFU
Tru64 Driver												
KGPSA -CA												
FW	3.91a1	3.91a1	3.81a4	3.81a4		3.91a1	3.81a4	3.91a1	3.91a1			3.91a1
Tru64 Driver	2.06	2.06	1.32a	1.32a		2.06	1.32a	2.06	2.06			2.06
<b>OpenVMS</b>												
FCA2384 (2G - PCI-X)												
FW	3.91a1	3.91a1										
Driver	Native	Native										

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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
<b>Fibre Host Bus Adapters</b>												
<b>AIX</b>												
Cambex PC2000 (2G - PCI)												
AIX Driver w/o Secure Path	1.5.22.0						1.5.22.0					1.5.22.0
AIX Driver w/ Secure Path	1.5.24.1						1.5.24.1					1.5.24.1
IBM 6228 (2Gb)												
AIX 4.3.3 Driver	Maintenance Pack 10	Maintenance Pack 10					Maintenance Pack 10	Maintenance Pack 10		Maintenance Pack 10		Maintenance Pack 10
AIX 5.1L Driver	Native						Native	Native	Native	Native		Native
AIX 5.2 Driver	Native						Native			Native		Native
PCI-to-FC HBA (PC1000) for AIX (1G) 197819-B21												
AIX Driver w/o Secure Path	1.5.22.0	1.5.19		1.5.11.1			1.5.22.0	1.5.22.0	1.5.22.0	1.5.22.0		1.5.22.0
AIX Driver w/ Secure Path	1.5.24.1						1.5.24.1	1.5.24.1	1.5.24.1	1.5.24.1		1.5.24.1
<b>Solaris</b>												
FCA2257P (2G - PCI)												
fw	3.1.2	3.1.2				3.1.2	3.1.2	3.1.2	3.1.2	3.1.2		3.1.2
Solaris Driver	4.11	4.11				3.26	4.11	4.11	3.26	4.11		4.11
FCA2257C (1G - PCI)												
fw	3.1.2	3.1.2				3.1.2	3.1.2	3.1.2	3.1.2	3.1.2		3.1.2
Solaris Driver	4.11	4.11				3.26	4.11	4.11	3.26	4.11		4.11
FCA2257S (1G - Sbus)												
fw	3.1.2	3.1.2				3.1.2	3.1.2	3.1.2	3.1.2	3.1.2		3.1.2
Solaris Driver	4.11	4.11				3.26	4.11	4.11	3.26	4.11		4.11
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		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		2.5.9
SWSA4-PC 32-bit PCI												
Fcode	3.0.3							3.0.3		3.0.3		3.0.3
Solaris Driver	2.5.9							2.5.9		2.5.9		2.5.9
SG-XPCI2FC-QF2 (X6768A) (2G - PCI-X)												
Solaris Driver	Native						Native					Native
FCX-6562/FCX2-6562 (2G - PCI)												
Fcode												
Solaris Driver												
JNI FCE6460 (2G - PCI)												
Fcode	3.9	3.9				3.9	3.9	3.9	3.8.9	3.9		3.9
Solaris Driver	5.3	5.3				5.3	5.3	5.3	5.2.1	5.3		5.3
JNI FCC6460 (2G - cPCI)												
Fcode	3.9	3.9				3.9	3.9	3.9	3.8.9	3.9		3.9
Solaris Driver	5.3	5.3				5.3	5.3	5.3	5.2.1	5.3		5.3
JNI FCE6410 (1G - PCI)												
Fcode	3.9	3.9						3.9				3.9
Solaris Driver	4.1.5	4.1.5						4.1.5				4.1.5

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## ISV DETAILS

Name	Version	Date Last Tested	Recommended Tape Driver	Application Information/Support
HP OpenView Storage Data Protector	5.1.1, 5.1, and 5.0	Current	Use Native Drivers	<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	11.0 and 9.0 build 2030	Current	CABA Driver for Windows	<a href="http://support.ca.com">support.ca.com</a>
Computer Associates BrightStor ARCserve for NetWare	9.0	Current	HP Driver for Netware	<a href="http://support.ca.com">support.ca.com</a>
Computer Associates BrightStor Enterprise Backup	BEB v10.5	Oct-03		<a href="http://support.ca.com/">support.ca.com/</a>
CommVault Systems QiNetix Galaxy	5.0	Jan-04	HP Driver for Windows	<a href="http://www.commvault.com">www.commvault.com</a>
Legato NetWorker	7.1, 7.0, 6.1.4, and 6.1.3	Current	HP Driver for Windows	<a href="http://www.legato.com">www.legato.com</a>
Syncsort Backup Express	2.1.5D	Oct-03	Use Native Drivers	<a href="http://www.syncsort.com">www.syncsort.com</a>
Tivoli Storage Manager	5.2.1.x	Current	Tivoli Driver for Windows	<a href="http://www.tivoli.com">www.tivoli.com</a>
VERITAS Backup Exec for Windows Servers	9.1.4691.42	Current	BE Driver for Windows	<a href="http://www.veritas.com">www.veritas.com</a>
VERITAS Backup Exec for NetWare	9.1.306.11	Current	BE Driver for Netware	<a href="http://www.veritas.com">www.veritas.com</a>
VERITAS NetBackup Windows	5.0 and 4.5 FP5/MP5	Current	HP Driver for Windows	<a href="http://www.veritas.com">www.veritas.com</a>
VERITAS NetBackup UNIX	5.0 and 4.5 FP5/MP5	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 backup and restore application or HP StorageWorks SAN products.

Refer to the application vendor's website or representative for maximum configuration details.

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## LEGACY PRODUCT SUPPORT DETAILS

Device Name	Last EBS Compatibility Matrix Where Device Was Listed <sup>1</sup>
TL895	December 2002
TL891DLX	December 2002
ESL9326D	April 2002
TL891D	April 2002
DLT 35/70	April 2002
Modular Data Router (MDR)	February 2004

1) Consult your HP Account Representative to obtain legacy EBS Compatibility Matrices