

# HP StorageWorks Enterprise Backup Solution (EBS) Hardware/Software Compatibility Matrix

May 2005 Version 1.1



## Start Here



Easy to use, OS-centric format.  
Product pages include version  
details allowing for easier data  
lookup and search.

The EBS Compatibility Matrix represents the latest tested software and hardware. Older versions may be supported, provided it was listed in a previous matrix. The legacy EBS compatibility matrices can be located at [www.hp.com/go/ebs](http://www.hp.com/go/ebs). While older versions of software and hardware may be supported, HP customer support may ask you to update components in order to eliminate known issues.

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 Compatibility Matrix next month will be **highlighted in yellow**. Automation products will then be moved to the Legacy Support Details page.

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



## Enterprise Backup Solution Compatibility Matrix Index

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## HP-UX (IA-64)

| DAS, DAF, and SAN Support                                   | Current Release | HP Data Protector | Atempo Time Navigator                              | BakBone NetVault                                   | CA ARCserve | CommVault Galaxy | EMC Legato NetWorker                               | Syncsort Backup Express                            | Tivoli Storage Manager | VERITAS Backup Exec | VERITAS NetBackup |
|---|-----------------|-------------------|--|--|-------------|------------------|--|--|------------------------|---------------------|-------------------|
| <b>Operating Systems</b> <sup>1, 2</sup>                    |                 |                   |  |  |             |                  |  |  |                        |                     |                   |
| HP-UX 11.23 (11i v2)  | Sept 2004       | Sept 2004         | HWE 11.23<br>March 2004<br>Gold Pack<br>March 2004 | HWE 11.23<br>March 2004<br>Gold Pack<br>March 2004 |             |                  | HWE 11.23<br>March 2004<br>Gold Pack<br>March 2004 | HWE 11.23<br>March 2004<br>Gold Pack<br>March 2004 | Sept 2004              |                     |                   |
| <b>Servers</b>  |                 |                   |  |  |             |                  |  |  |                        |                     |                   |
| HP Integrity Superdome and Mid-Range (rx7000-rx8000, IA-64) |                 | ✓                 |  |  |             |                  | ✓  |  |                        |                     |                   |
| HP Integrity Entry-Level (rx1000-rx6000, IA-64)             |                 | ✓ <sup>4</sup>    | ✓  | ✓  |             |                  | ✓  | ✓  | ✓                      |                     |                   |
| <b>Workstations</b>   |                 |                   |  |  |             |                  |  |  |                        |                     |                   |
| HP xz series (IA)   |                 | ✓                 |  |  |             |                  |  |  |                        |                     |                   |
| <b>Fibre Host Bus Adapters</b> <sup>5</sup>                 |                 |                   |  |  |             |                  |  |  |                        |                     |                   |
| A8465A (2G Combo Card)                                      |                 |                   |  |  |             |                  |  |  |                        |                     |                   |
| FW  |                 |                   |  |  |             |                  |  |  |                        |                     |                   |
| fcid Driver   | Native          | Native            |  |  |             |                  | Native   |  |                        |                     |                   |
| A8782 (2G Combo Card)                                       |                 |                   |  |  |             |                  |  |  |                        |                     |                   |
| FW  |                 |                   |  |  |             |                  |  |  |                        |                     |                   |
| fcid Driver   | Native          | Native            | Native   | Native   |             |                  | Native   |  |                        |                     |                   |
| A9784 (2G Combo Card)                                       |                 |                   |  |  |             |                  |  |  |                        |                     |                   |
| FW  |                 |                   |  |  |             |                  |  |  |                        |                     |                   |
| fcid Driver   | Native          | Native            | Native   | Native   |             |                  | Native   |  |                        |                     |                   |
| A6795A (2G)   |                 |                   |  |  |             |                  |  |  |                        |                     |                   |
| FW  | 1.10            | 1.10              |  |  |             |                  | 1.10   | 1.10   | 1.10                   |                     |                   |
| fcid Driver   | Native          | Native            |  |  |             |                  | Native   | Native   | Native                 |                     |                   |
| A6826A (2G)   |                 |                   |  |  |             |                  |  |  |                        |                     |                   |
| FW  | 3.02.165        | 3.02.165          | 3.02.165   | 3.02.165   |             |                  | 3.02.165   |  | 3.02.165               |                     |                   |
| fcid Driver   | Native          | Native            | Native   | Native   |             |                  | Native   |  | Native                 |                     |                   |
| <b>Disk Array Multipath Support</b> <sup>5</sup>            |                 |                   |  |  |             |                  |  |  |                        |                     |                   |
| AutoPath for HP-UX  | 2.01.02         | 2.01.02           |  |  |             |                  | 2.01.02  |  |                        |                     |                   |
| Secure Path for HP-UX                                       | 3.0E            | 3.0E              | 3.0C   | 3.0C   |             |                  | 3.0E   | 3.0E   | 3.0E                   |                     |                   |
| <b>High Availability</b> <sup>6</sup>                       |                 |                   |  |  |             |                  |  |  |                        |                     |                   |
| HP-UX (Service Guard)                                       |                 | ✓ <sup>3</sup>    |  |  |             |                  | ✓ <sup>3</sup>                                     |  |                        |                     |                   |

CLICK on product to go to product web page

CLICK cell to go to download page for this product

**NOTES:**

- 1) Other Operating Systems not listed above may be supported within EBS by the respective ISVs as LAN clients.
- 2) Please reference your ISV support matrices for supported application and operating system version compatibility.
- 3) ATS is not supported.

- 5) 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.
- 4) Data Protector 5.0 support in 32-bit emulation mode.

- 6) 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.

May 2005, v1.0

Notes pertaining to unique configurations

Matrix version

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## Libraries - Application Support

| DAS, DAF, and SAN Support                              | Current Release | HP Data Protector  | Atempo Time Navigator | BakBone NetVault | CA ARCserve           | CommVault Galaxy | EMC Legato NetWorker | Syncsort Backup Express | Tivoli Storage Manager | VERITAS Backup Exec | VERITAS NetBackup |
|--|-----------------|--------------------|-----------------------|------------------|-----------------------|------------------|----------------------|-------------------------|------------------------|---------------------|-------------------|
| <b>Enterprise Libraries</b>                            |                 |                    |                       |                  |                       |                  |                      |                         |                        |                     |                   |
| <b>ESL E-Series 712e/322e <sup>1</sup></b>             |                 |                    |                       |                  |                       |                  |                      |                         |                        |                     |                   |
| Robot FW   | 3.00            | 3.00               | 1.01                  | 1.01             | 3.00 <sup>2</sup>     | 1.01             | 3.00                 | 3.00                    | 3.00                   | 3.00                | 3.00              |
| Drive FW Ultrium 960 FC                                | L25W            | L25W               |                       |                  | L25W <sup>14</sup>    |                  |                      | L25W                    | L25W                   | L25W                | L25W              |
| Drive FW Ultrium 460                                   | F59W            | F59W               | F43W                  | F43W             | F59W                  | F43W             | F59W                 | F59W                    | F59W <sup>12</sup>     | F59W                | F59W              |
| Drive FW Ultrium 460 FC                                | K42W            | K42W               |                       |                  | K42W                  | K42W             | K42W                 | K42W                    | K42W                   | K42W                | K42W              |
| <b>ESL E-Series 630e/286e <sup>1</sup></b>             |                 |                    |                       |                  |                       |                  |                      |                         |                        |                     |                   |
| Robot FW   | 3.00            | 3.00               | 1.01                  | 1.01             | 3.00 <sup>2</sup>     | 1.01             | 3.00                 | 3.00                    | 3.00                   | 3.00                | 3.00              |
| Drive FW SDLT 600                                      | v35             | v35                |                       |                  | v35 <sup>10</sup>     |                  | v35                  | v35                     |                        | v35 <sup>6</sup>    | v35               |
| Drive FW SDLT 160/320                                  | v85             | v85                | v75                   | v75              | v85                   | v75              | v85                  | v85                     | v85                    | v85 <sup>6</sup>    | v85               |
| <b>EML E-Series 245e/103e <sup>1</sup></b>             |                 |                    |                       |                  |                       |                  |                      |                         |                        |                     |                   |
| Robot FW   | 1016            | 1016 <sup>13</sup> |                       |                  | 1016 <sup>7</sup>     |                  | 1016 <sup>5</sup>    |                         |                        |                     | 1016              |
| Drive FW Ultrium 960 FC                                | L25S            | L25S               |                       |                  | L25S                  |                  | L25S                 |                         |                        |                     | L25S              |
| Drive FW Ultrium 460 FC                                | K4B0            | K4B0               |                       |                  | K4B0                  |                  | K4B0                 |                         |                        |                     | K4B0              |
| <b>ESL 9000 Series <sup>1</sup></b>                    |                 |                    |                       |                  |                       |                  |                      |                         |                        |                     |                   |
| Robot FW   | 3.55            | 3.55               | 3.48                  | 3.48             | 3.55 <sup>2, 11</sup> | 3.48             | 3.55                 | 3.55                    | 3.55                   | 3.55                | 3.55              |
| Drive FW Ultrium 460                                   | F59W            | F59W               | F43W                  | F43W             | F59W                  | F43W             | F59W                 | F59W                    | F59W <sup>12</sup>     | F59W                | F59W              |
| Drive FW Ultrium 230                                   | E38W            | E38W               | E38W                  | E38W             | E38W                  | E38W             | E38W                 | E38W                    | E38W                   | E38W                | E38W              |
| Drive FW SDLT 600                                      | v35             | v35                |                       |                  | v35 <sup>10</sup>     |                  | v35                  | v35                     |                        | v35 <sup>6</sup>    | v35               |
| Drive FW SDLT 160/320                                  | v85             | v85                | v75                   | v75              | v85                   | v75              | v85                  | v85                     | v85                    | v85                 | v85               |
| Drive FW SDLT 110/220                                  | v85             | v85                | v75                   | v75              | v85                   | v75              | v85                  | v85                     | v85                    | v85                 | v85               |
| <b>HP VLS 6000</b>                                     |                 | ✓                  |                       |                  |                       |                  |                      |                         |                        |                     | ✓                 |
| <b>ESL 9000 Multi-Unit Scalability <sup>3, 4</sup></b> |                 | ✓                  | ✓                     | ✓                | ✓ <sup>2</sup>        | ✓                | ✓                    | ✓                       | ✓                      |                     | ✓                 |
| <b>ESL Mixed Media</b>                                 |                 | ✓                  | ✓ <sup>9</sup>        |                  | ✓ <sup>2</sup>        | ✓ <sup>9</sup>   | ✓                    |                         | ✓                      | ✓ <sup>8</sup>      | ✓                 |
| <b>ESL Partitioning</b>                                |                 | ✓                  |                       |                  | ✓ <sup>2</sup>        |                  | ✓                    |                         | ✓                      | ✓ <sup>8</sup>      | ✓                 |

**NOTES:**

- 1) The HP StorageWorks SDLT 600 and/or Ultrium 960 Tape Drives include support for WORM (Write-Once, Read-Many) functionality. WORM implementation is dependent on the backup application. For more information on which applications support WORM, go to: [www.hp.com/go/connect](http://www.hp.com/go/connect).
- 2) NetWare is supported with ESL libraries in a homogeneous environment only.
- 3) ESL multi-unit scalability is with a horizontal pass-through mechanism.

- 4) Contact your ISV for scalability support.
- 5) Not supported with LINUX (IA-64) and AIX.
- 6) Windows support only.
- 7) Supported with Windows and Solaris only.
- 8) Homogeneous Windows only.
- 9) Mixed Media using Partitioning not supported.

- 10) Direct attach SCSI support only.
- 11) SDLT 600 direct attach LINUX support only.
- 12) LINUX is not supported with Ultrium 460 drive. with F59W firmware.
- 13) Not supported with NetWare and OVMS.
- 14) Direct attach Fibre support only.

## Libraries - Application Support - Continued

| DAS, DAF, and SAN Support                         | Current Release | HP Data Protector | Atempo Time Navigator | BakBone NetVault | CA ARCserve       | CommVault Galaxy | EMC Legato NetWorker | Syncsort Backup Express | Tivoli Storage Manager | VERITAS Backup Exec | VERITAS NetBackup |
|---|-----------------|-------------------|-----------------------|------------------|-------------------|------------------|----------------------|-------------------------|------------------------|---------------------|-------------------|
| <b>Mid-Range Libraries</b>                        |                 |                   |                       |                  |                   |                  |                      |                         |                        |                     |                   |
| <b>MSL 6000 Series <sup>1</sup></b>               |                 |                   |                       |                  |                   |                  |                      |                         |                        |                     |                   |
| Robot FW  | 5.07            | 5.07              | 4.23                  | 4.23             | 4.30              | 4.23             | 5.07                 | 5.07                    | 5.07                   | 5.07                | 5.07              |
| Drive FW Ultrium 960                              | G24W            | G24W              |                       |                  | G24W <sup>5</sup> |                  |                      | G24W                    | G24W                   | G24W                | G24W              |
| Drive FW Ultrium 460                              | F59W            | F59W              | F43W                  | F43W             | F59W              | F43W             | F59W                 | F59W                    | F59W <sup>2</sup>      | F59W                | F59W              |
| Drive FW SDLT 600                                 | v35             | v35               |                       |                  | v35 <sup>5</sup>  |                  | v35                  | v35                     |                        | v35                 | v35               |
| Drive FW SDLT 160/320                             | v85             | v85               | v75                   | v75              | v85               | v75              | v85                  | v85                     | v85                    | v85                 | v85               |
| <b>MSL 5000 Series <sup>1</sup></b>               |                 |                   |                       |                  |                   |                  |                      |                         |                        |                     |                   |
| Robot FW  | 5.07            | 5.07              | 4.23                  | 4.23             | 4.30              | 4.23             | 5.07                 | 5.07                    | 5.07                   | 5.07                | 5.07              |
| Drive FW Ultrium 960                              | G24W            | G24W              |                       |                  | G24W <sup>5</sup> |                  |                      | G24W                    | G24W                   | G24W                | G24W              |
| Drive FW Ultrium 230                              | E38W            | E38W              | E38W                  | E38W             | E38W              | E38W             | E38W                 | E38W                    | E38W                   | E38W                | E38W              |
| Drive FW SDLT 600                                 | v35             | v35               |                       |                  | v35 <sup>5</sup>  |                  | v35                  | v35                     |                        | v35                 | v35               |
| Drive FW SDLT 110/220                             | v85             | v85               | v75                   | v75              | v85               | v75              | v85                  | v85                     | v85                    | v85                 | v85               |
| <b>MSL Multi-Unit Scalability <sup>3, 4</sup></b> |                 | ✓                 | ✓                     | ✓                | ✓                 | ✓                | ✓                    | ✓                       | ✓                      | ✓                   | ✓                 |
| <b>MSL Mixed Media Support</b>                    |                 | ✓                 | ✓                     |                  | ✓                 | ✓                | ✓                    |                         | ✓                      | ✓ <sup>6</sup>      | ✓                 |

**NOTES:**

- 1) The HP StorageWorks SDLT 600 and Ultrium 960 Tape Drives include support for WORM (Write-Once, Read-Many) functionality. WORM implementation is dependent on the backup application. For more information on which applications support WORM, go to: [www.hp.com/go/connect](http://www.hp.com/go/connect).
- 2) LINUX is not supported with Ultrium 460 drive with F59W firmware.

- 3) MSL multi-unit scalability is with a vertical pass-through mechanism.
- 4) Contact your ISV for scalability support.
- 5) Direct attach SCSI support only.
- 6) Homogeneous Windows only.

## Libraries - Controller Support - Continued

| DAF and SAN Support <sup>1</sup>        | e2400-FC 2G<br>Interface Controller (FC-FC) | e2400-160<br>Interface Controller (FC-SCSI) | NSR E1200-160 | NSR E2400 | NSR E1200 | NSR M2402 | NSR N1200 |
|---|---|---|---------------|-----------|-----------|-----------|-----------|
| <b>Enterprise Libraries</b>             |   |   |               |           |           |           |           |
| ESL E-Series 712e/322e (Ultrium 960 FC) | ✓   |   |               |           |           |           |           |
| ESL E-Series 712e/322e (Ultrium 460)    |   | ✓   |               |           |           |           |           |
| ESL E-Series 712e/322e (Ultrium 460 FC) | ✓   |   |               |           |           |           |           |
| ESL E-Series 630e/286e (SDLT320)        |   | ✓   |               |           |           |           |           |
| ESL E-Series 630e/286e (SDLT600)        |   | ✓   |               |           |           |           |           |
| EML E-Series 245e/103e (Ultrium 960 FC) | ✓   |   |               |           |           |           |           |
| EML E-Series 245e/103e (Ultrium 460 FC) | ✓   |   |               |           |           |           |           |
| ESL 9595 (Ultrium 460)                  |   | ✓   |               |           |           | ✓         |           |
| ESL 9595 (Ultrium 230)                  |   | ✓   |               | ✓         |           | ✓         | ✓         |
| ESL 9595 (SDLT600)                      |   | ✓   |               |           |           | ✓         |           |
| ESL 9595 S2 (SDLT320)                   |   | ✓   |               | ✓         |           | ✓         | ✓         |
| ESL 9595 SL                             |   | ✓   |               | ✓         |           | ✓         | ✓         |
| ESL 9326 (SDLT600)                      |   | ✓   |               |           |           | ✓         |           |
| ESL 9326 (SDLT320)                      |   | ✓   |               | ✓         |           | ✓         | ✓         |
| ESL 9326 SL                             |   | ✓   |               | ✓         |           | ✓         | ✓         |
| ESL 9322 (Ultrium 460)                  |   | ✓   |               |           |           | ✓         |           |
| ESL 9322 (Ultrium 230)                  |   | ✓   |               | ✓         |           | ✓         | ✓         |
| ESL 9322 (SDLT600)                      |   | ✓   |               |           |           | ✓         |           |
| ESL 9322 (SDLT320)                      |   | ✓   |               | ✓         |           | ✓         | ✓         |
| ESL 9198 (SDLT600)                      |   | ✓   |               |           |           | ✓         |           |
| ESL 9198 S2 (SDLT320)                   |   | ✓   |               | ✓         |           | ✓         | ✓         |
| ESL 9198 SL                             |   | ✓   |               | ✓         |           | ✓         | ✓         |
| ESL Multi-Unit Scalability <sup>2</sup> |   | ✓   |               | ✓         |           | ✓         | ✓         |
| Interface Manager                       | ✓   | ✓   |               |           |           |           |           |
| <b>Mid-Range Libraries</b>              |   |   |               |           |           |           |           |
| MSL 6060 (Ultrium 960)                  |   |   | ✓             |           |           | ✓         |           |
| MSL 6060 (Ultrium 460)                  |   |   | ✓             |           |           | ✓         |           |
| MSL 5060 (Ultrium 230)                  |   |   | ✓             |           | ✓         | ✓         | ✓         |
| MSL6052 (SDLT 600)                      |   |   | ✓             |           |           | ✓         |           |
| MSL5052 (SDLT 600)                      |   |   | ✓             |           |           | ✓         |           |
| MSL 5052 S2                             |   |   | ✓             |           | ✓         | ✓         | ✓         |
| MSL 5052 SL                             |   |   | ✓             |           | ✓         | ✓         | ✓         |
| MSL 6030 (Ultrium 960)                  |   |   | ✓             |           |           | ✓         |           |
| MSL 6030 (Ultrium 460)                  |   |   | ✓             |           |           | ✓         |           |
| MSL 5030 (Ultrium 230)                  |   |   | ✓             |           | ✓         | ✓         | ✓         |
| MSL 6026 (SDLT 600)                     |   |   | ✓             |           |           | ✓         |           |
| MSL 5026 (SDLT 600)                     |   |   | ✓             |           | ✓         | ✓         | ✓         |
| MSL 5026 S2                             |   |   | ✓             |           | ✓         | ✓         | ✓         |
| MSL 5026 SL                             |   |   | ✓             |           | ✓         | ✓         | ✓         |
| MSL Multi-Unit Scalability              |   |   | ✓             |           | ✓         | ✓         | ✓         |

**NOTE:**1) For ISV compatibility information with the routers, refer to the [Interface Controllers](#) page within this document or [click here](#).

2) Multi-unit configurations that include an Interface Manager card are restricted to two libraries

## Interface Controllers and Serverless Support

| DAF and SAN Support  | Current Release | HP Data Protector | Atempo Time Navigator | BakBone NetVault | CA ARCserve | CommVault Galaxy | EMC Legato NetWorker | Syncsort Backup Express | Tivoli Storage Manager | VERITAS Backup Exec | VERITAS NetBackup |
|--|-----------------|-------------------|-----------------------|------------------|-------------|------------------|----------------------|-------------------------|------------------------|---------------------|-------------------|
| <b>Fibre Channel Interface Controller</b>                        |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| Interface Manager  | i155            | i155              | i130                  | i120             | i155        | i120             | i155                 | i150                    | i155                   | i155                | i155              |
| e2400-FC 2G Interface Controller (FC-FC)                         | 5.6.69          | 5.6.69            |                       |                  | 5.6.69      |                  | 5.6.69               | 5.6.69                  | 5.6.69                 | 5.6.69 <sup>8</sup> | 5.6.69            |
| e2400-160 Interface Controller (FC-SCSI)                         | 5.6.69          | 5.6.69            | 5.4.25                | 5.3.0b           | 5.6.69      | 5.3.0b           | 5.6.69               | 5.6.69                  | 5.6.69                 | 5.6.69              | 5.6.69            |
| NSR E1200-160  | 5.6.69          | 5.6.69            | 5.4.25                | 5.3.0b           | 5.6.69      | 5.3.0b           | 5.6.69               | 5.6.69                  | 5.6.69                 | 5.6.69              | 5.6.69            |
| NSR E2400  | 5.6.69          | 5.6.69            | 5.4.25                | 5.3.0b           | 5.6.69      | 5.3.0b           | 5.6.69               | 5.6.69                  | 5.6.69                 | 5.6.69              | 5.6.69            |
| NSR E1200  | 5.6.69          | 5.6.69            | 5.4.25                | 5.3.0b           | 5.6.69      | 5.3.0b           | 5.6.69               | 5.6.69                  | 5.6.69                 | 5.6.69              | 5.6.69            |
| NSR M2402  | 5.6.69          | 5.6.69            | 5.4.25                | 5.3.0b           | 5.6.69      | 5.3.0b           | 5.6.69               | 5.6.69                  | 5.6.69                 | 5.6.69              | 5.6.69            |
| NSR N1200  | 5.6.69          | 5.6.69            | 5.4.25                | 5.3.0b           | 5.6.69      | 5.3.0b           | 5.6.69               | 5.6.69                  | 5.6.69                 | 5.6.69              | 5.6.69            |
| <b>Serverless Backup<sup>1,2,6,9,10</sup> (SAN Support Only)</b> |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| e2400-FC 2G Interface Controller (FC-FC)                         |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| e2400-160 Interface Controller (FC-SCSI)                         |                 | ✓ <sup>7</sup>    |                       |                  |             |                  |                      |                         |                        |                     |                   |
| NSR E2400  |                 |                   |                       | ✓ <sup>3</sup>   |             |                  |                      |                         |                        | ✓ <sup>4</sup>      | ✓ <sup>5</sup>    |
| NSR E1200  |                 |                   |                       | ✓ <sup>3</sup>   |             |                  |                      |                         |                        | ✓ <sup>4</sup>      | ✓ <sup>5</sup>    |
| NSR M2402  |                 | ✓ <sup>7</sup>    |                       | ✓ <sup>3</sup>   |             |                  |                      |                         |                        | ✓ <sup>4</sup>      | ✓ <sup>5</sup>    |
| NSR N1200  |                 |                   |                       | ✓ <sup>3</sup>   |             |                  |                      |                         |                        | ✓ <sup>4</sup>      | ✓ <sup>5</sup>    |

|  | Interface Manager Firmware Required Minimum Component |        |        |        |        |        |        |        |
|--|---|--------|--------|--------|--------|--------|--------|--------|
|  | i100  | i110   | i120   | i130   | i141   | i142   | i150   | i155   |
| e2400-FC 2G Interface Controller (FC-FC) | N/A   | N/A    | N/A    | 5.4.25 | 5.6.06 | 5.6.06 | 5.6.41 | 5.6.69 |
| e2400-160 Interface Controller (FC-SCSI) | 5.1.08  | 5.3.0b | 5.3.0b | 5.4.25 | 5.6.06 | 5.6.06 | 5.6.41 | 5.6.69 |
| NSR E2400                                | N/A   | 5.3.0b | 5.3.0b | 5.4.25 | 5.6.06 | 5.6.06 | 5.6.41 | 5.6.69 |
| NSR E1200-160                            | N/A   | 5.3.0b | 5.3.0b | 5.4.25 | 5.6.06 | 5.6.06 | 5.6.41 | 5.6.69 |
| ESL 9595/9322                            | 3.40  | 3.40   | 3.40   | 3.48   | 3.48   | 3.55   | 3.55   | 3.55   |
| ESL 9198/9326                            | N/A   | 3.40   | 3.40   | 3.48   | 3.48   | 3.55   | 3.55   | 3.55   |
| ESL E-Series 712e/630e                   | N/A   | N/A    | 1.01   | 1.10   | 2.00   | 2.00   | 3.00   | 3.00   |
| ESL E-Series 322e/286e                   | N/A   | N/A    | N/A    | 1.10   | 2.00   | 2.00   | 3.00   | 3.00   |
| EML E-Series 245e/103e                   | N/A   | N/A    | N/A    | N/A    | N/A    | N/A    | N/A    | 1016   |
| JAVA Run Time                            | 1.4.0   | 1.4.0  | 1.4.2  | 1.4.2  | 1.4.2  | 1.4.2  | 1.4.2  | 1.4.2  |
| Command View ESL                         | 1.0.00  | 1.1.00 | 1.2.00 | 1.3.00 | 1.4.01 | 1.4.02 | 1.50   | 1.5.05 |

**NOTES:**

- 1) Serverless backup supported in single path configurations only.
- 2) Serverless backup not supported with 5.3.0b or 5.4.25 NSR firmware.
- 3) Windows 2000 and 2003 Serverless option with EVA, MSA1000, HSG only.
- 4) Windows 2000 ServerFree opt with HSG, EVA, MSA1000 only.
- 5) Supported with Solaris 8 & 9, VERITAS NetBackup 4.5 and 5.X, nbu\_snap with HSG and EVA only (master router configuration not supported).
- 6) Serverless Backup functionality is not available with the e1200-160 interface controller.
- 7) Supported with XP128/1024 and version 5.1.08 of NSR firmware.
- 8) Support is with Windows only.
- 9) The LUN ID of the disk volume to be backed up must be the same for the host and the interface controller.
- 10) Serverless backup is restricted to Qlogic Windows driver version 8.2.0.73 or any version of Emulex HBA driver.

## Autoloaders

| DAS Support                            |                                       | Current Release | HP Data Protector | Atempo Time Navigator | BakBone NetVault | CA ARCserve | CommVault Galaxy | EMC Legato NetWorker | Syncsort Backup Express | Tivoli Storage Manager | VERITAS Backup Exec | VERITAS NetBackup | Native |
|--|---------------------------------------|-----------------|-------------------|-----------------------|------------------|-------------|------------------|----------------------|-------------------------|------------------------|---------------------|-------------------|--------|
| <b>AutoLoaders<sup>1</sup></b>         |                                       |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |        |
| SSL1016 Ultrium 460<br>Tape Autoloader | <b>Component Firmware</b>             |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |        |
|  | Robot FW                              | v20             | v20               | v20                   | v10              | v20         | v10              | v20                  | v20                     | v20                    | v20                 | v20               | v20    |
|  | Drive FW Ultrium 460                  | F59W            | F59W              | F43W                  | F43W             | F59W        | F43W             | F59W                 | F59W                    | F59W                   | F59W                | F59W              | F59W   |
|  | <b>Operating System Support</b>       |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |        |
|  | HP-UX 11.0                            |                 | ✓                 |                       |                  |             |                  | ✓                    |                         | ✓                      |                     | ✓                 | ✓      |
|  | HP-UX 11.11 (11i v1)                  |                 | ✓                 |                       |                  |             |                  | ✓                    |                         | ✓                      |                     | ✓                 | ✓      |
|  | HP-UX 11.23 (11i v2)                  |                 | ✓                 |                       |                  |             |                  | ✓                    |                         |                        |                     |                   | ✓      |
|  | 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<br>Tape Autoloader | <b>Component Firmware</b>             |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |        |
|  | Robot FW                              | v40             | v40               |                       | v35              | v40         | v31              | v40                  | v40                     |                        | v40                 | v40               | v40    |
|  | Drive FW SDLT 160/320                 | v85             | v85               |                       | v85              | v85         | v75              | v85                  | v85                     |                        | v85                 | v85               | v85    |
|  | <b>Operating System Support</b>       |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |        |
|  | HP-UX 11.0                            |                 | ✓                 |                       |                  |             |                  | ✓                    |                         |                        |                     | ✓                 | ✓      |
|  | HP-UX 11.11 (11i v1)                  |                 | ✓                 |                       |                  |             |                  | ✓                    |                         |                        |                     | ✓                 | ✓      |
|  | HP-UX 11.23 (11i v2)                  |                 | ✓                 |                       |                  |             |                  |                      |                         |                        |                     |                   | ✓      |
|  | 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  
May 2005, v1.0



## Autoloaders

| DAS Support                           |                                       | Current Release           | HP Data Protector | Atempo Time Navigator | BakBone NetVault | CA ARCserve | CommVault Galaxy | EMC Legato NetWorker | Syncsort Backup Express | Tivoli Storage Manager | VERITAS Backup Exec | VERITAS NetBackup | Native |      |
|---------------------------------------|---------------------------------------|---------------------------|-------------------|-----------------------|------------------|-------------|------------------|----------------------|-------------------------|------------------------|---------------------|-------------------|--------|------|
| <b>AutoLoaders<sup>1</sup></b>        |                                       |                           |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |        |      |
| 1/8 Ultrium 460<br>Tape Autoloader    | <b>Component Firmware</b>             |                           |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |        |      |
|                                       | Robot FW                              | N12r                      | N12r              | N12r                  | N12r             | N12r        | N12r             | N12r                 | N12r                    |                        | N12r                | N12r              | N12r   |      |
|                                       | Drive FW Ultrium 460                  | F7BP                      | F7BP              | F78V                  | F78V             | F7BP        | F78V             | F7BP                 | F7BP                    |                        | F7BP                | F7BP              | F7BP   |      |
|                                       | <b>Operating System Support</b>       |                           |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |        |      |
|                                       | HP-UX 11.0                            |                           | ✓                 |                       |                  |             |                  | ✓                    |                         | ✓                      |                     | ✓                 | ✓      |      |
|                                       | HP-UX 11.11 (11i v1)                  |                           | ✓                 |                       |                  |             |                  | ✓                    |                         | ✓                      |                     | ✓                 | ✓      |      |
|                                       | HP-UX 11.23 (11i v2)                  |                           | ✓                 |                       |                  |             |                  | ✓                    |                         |                        |                     | ✓                 | ✓      |      |
|                                       | 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<br>Tape Autoloader    | <b>Component Firmware</b> |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |        |      |
|                                       |                                       | Robot FW                  | H43r              | H43r                  | H43r             | H43r        | H43r             | H43r                 | H43r                    | H43r                   | H43r                | H43r              | H43r   | H43r |
| Drive FW Ultrium 230                  |                                       | E33P                      | E330P             | E33P                  | E33P             | E33P        | E33P             | E33P                 | E33P                    | E33P                   | E33P                | E33P              | E33P   |      |
| <b>Operating System Support</b>       |                                       |                           |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |        |      |
| HP-UX 11.0                            |                                       |                           | ✓                 |                       |                  |             |                  |                      |                         | ✓                      |                     | ✓                 | ✓      |      |
| HP-UX 11.11 (11i v1)                  |                                       |                           | ✓                 |                       |                  |             |                  |                      |                         | ✓                      |                     | ✓                 | ✓      |      |
| HP-UX 11.23 (11i v2)                  |                                       |                           | ✓                 |                       |                  |             |                  |                      |                         |                        |                     | ✓                 | ✓      |      |
| 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  
May 2005, v1.0

## Autoloaders

| DAS Support                         |                                       | Current Release | HP Data Protector | Atempo Time Navigator | BakBone NetVault | CA ARCserve | CommVault Galaxy | EMC Legato NetWorker | Syncsort Backup Express | Tivoli Storage Manager | VERITAS Backup Exec | VERITAS NetBackup | Native |
|-------------------------------------|---------------------------------------|-----------------|-------------------|-----------------------|------------------|-------------|------------------|----------------------|-------------------------|------------------------|---------------------|-------------------|--------|
| <b>AutoLoaders<sup>1</sup></b>      |                                       |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |        |
| 1/8 SDLT 160/320<br>Tape Autoloader | <b>Component Firmware</b>             |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |        |
|                                     | Robot FW                              | L12r            | L12r              | L12r                  | L12r             | L12r        | L12r             | L12r                 | L12r                    |                        | L12r                | L12r              | L12r   |
|                                     | Drive FW SDLT 160/320                 | v85             | v85               | v75                   | v75              | v85         | v85              | v85                  | v85                     |                        | v85                 | v85               | v85    |
|                                     | <b>Operating System Support</b>       |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |        |
|                                     | HP-UX 11.0                            |                 | ✓                 |                       |                  |             |                  | ✓                    |                         | ✓                      |                     | ✓                 | ✓      |
|                                     | HP-UX 11.11 (11i v1)                  |                 | ✓                 |                       |                  |             |                  | ✓                    |                         | ✓                      |                     | ✓                 | ✓      |
|                                     | HP-UX 11.23 (11i v2)                  |                 | ✓                 |                       |                  |             |                  | ✓                    |                         |                        |                     |                   | ✓      |
|                                     | 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

## Autoloaders

| DAS Support                     |                                       | Current Release | HP Data Protector | Atempo Time Navigator | BakBone NetVault | CA ARCserve | CommVault Galaxy | EMC Legato NetWorker | Syncsort Backup Express | Tivoli Storage Manager | VERITAS Backup Exec | VERITAS NetBackup | Native |   |
|---------------------------------|---------------------------------------|-----------------|-------------------|-----------------------|------------------|-------------|------------------|----------------------|-------------------------|------------------------|---------------------|-------------------|--------|---|
| <b>AutoLoaders<sup>1</sup></b>  |                                       |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |        |   |
| 1/8 DLT vs80<br>Tape Autoloader | <b>Component Firmware</b>             |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |        |   |
|                                 | Robot FW                              | 5E40            | 5E40              | 5E40                  | 5E40             | 5E40        | 5E40             | 5E40                 | 5E40                    |                        | 5E40                |                   | 5E40   |   |
|                                 | Drive FW vs80                         | v64             | v64               | v56                   | v56              | v64         | v56              | v64                  | v56                     |                        | v64                 |                   | v64    |   |
|                                 | <b>Operating System Support</b>       |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |        |   |
|                                 | HP-UX 11.0                            |                 | ✓                 |                       |                  |             |                  |                      |                         | ✓                      |                     |                   | ✓      |   |
|                                 | HP-UX 11.11 (11i v1)                  |                 | ✓                 |                       |                  |             |                  |                      |                         | ✓                      |                     |                   | ✓      |   |
|                                 | HP-UX 11.23 (11i v2)                  |                 | ✓                 |                       |                  |             |                  |                      |                         |                        |                     |                   |        |   |
|                                 | 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<br>Tape Autoloader | <b>Component Firmware</b>             |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |        |   |
|                                 | Robot FW                              | v40             | v40               | v31                   | v31              | v40         | v13              | v40                  | v31                     | v40                    | v40                 | v40               | v40    |   |
|                                 | Drive FW DLT 1                        | v64             | v64               | v53                   | v53              | v64         | v46              | v64                  | v53                     | v64                    | v64                 | v64               | v64    |   |
|                                 | <b>Operating System Support</b>       |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |        |   |
|                                 | HP-UX 11.0                            |                 |                   |                       |                  |             |                  | ✓                    |                         | ✓                      |                     |                   |        |   |
|                                 | HP-UX 11.11 (11i v1)                  |                 |                   |                       |                  |             |                  | ✓                    |                         | ✓                      |                     |                   |        |   |
|                                 | HP-UX 11.23 (11i v2)                  |                 | ✓                 |                       |                  |             |                  |                      |                         |                        |                     |                   |        |   |
|                                 | Windows NT 4.0                        |                 | ✓                 | ✓                     | ✓                | ✓           | ✓                |                      | ✓                       | ✓                      | ✓ <sup>2</sup>      | ✓                 |        |   |
|                                 | Windows 2000 Server/AS                |                 | ✓                 | ✓                     | ✓                | ✓           | ✓                |                      | ✓                       | ✓                      | ✓ <sup>2</sup>      | ✓                 |        |   |
|                                 | 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.  
May 2005, v1.0

2) Supported with BE 9.0 and later only

## HP-UX (PA-RISC)

| DAS, DAF, and SAN Support                                | Current Release                                | HP Data Protector                              | Atempo Time Navigator  | BakBone NetVault       | CA ARCserve                                    | CommVault Galaxy       | EMC Legato NetWorker                           | Syncsort Backup Express                        | Tivoli Storage Manager                         | VERITAS Backup Exec | VERITAS NetBackup                              |
|--|--|--|------------------------|------------------------|--|------------------------|--|--|--|---------------------|--|
| <b>Operating Systems <sup>1, 2</sup></b>                 |  |  |                        |                        |  |                        |  |  |  |                     |  |
| HP-UX 11.0   | HWE 1100<br>March 2004                         | HWE 1100<br>March 2004                         | HWE 1100<br>March 2004 | HWE 1100<br>March 2004 | HWE 1100<br>March 2004                         | HWE 1100<br>Sept 2003  | HWE 1100<br>March 2004                         | HWE 1100<br>Sept 2003                          | HWE 1100<br>March 2004                         |                     | HWE 1100<br>March 2004                         |
| HP-UX 11.11 (11i v1)                                     | HWE 11.11<br>Dec 2004<br>Gold Pack<br>Dec 2004 | HWE 11.11<br>Dec 2004<br>Gold Pack<br>Dec 2004 | HWE 11.11<br>Dec 2003  | HWE 11.11<br>Dec 2003  | HWE 11.11<br>Dec 2004<br>Gold Pack<br>Dec 2004 | HWE 11.11<br>Sept 2003 | HWE 11.11<br>Dec 2004<br>Gold Pack<br>Dec 2004 | HWE 11.11<br>Dec 2004<br>Gold Pack<br>Dec 2004 | HWE 11.11<br>Dec 2004<br>Gold Pack<br>Dec 2004 |                     | HWE 11.11<br>Dec 2004<br>Gold Pack<br>Dec 2004 |
| HP-UX 11.23 (11i v2)                                     | Sept 2004                                      |  |                        |                        |  |                        |  | Sept 2004                                      |  |                     |  |
| <b>Servers</b>   |  |  |                        |                        |  |                        |  |  |  |                     |  |
| HP 9000 Superdome and Mid-Range (rp7000-rp8000, PA-RISC) |  | ✓  | ✓                      | ✓                      | ✓  |                        | ✓  | ✓  |  |                     | ✓  |
| HP 9000 Entry-Level (rp1000-rp6000, PA-RISC)             |  | ✓  | ✓                      | ✓                      | ✓  | ✓                      | ✓  | ✓  | ✓  |                     | ✓  |
| HP A, L, N, and V Class (pa-risc)                        |  | ✓  | ✓                      | ✓                      | ✓  | ✓                      | ✓  | ✓  | ✓  |                     | ✓  |
| HP R Class (pa-risc) <sup>3</sup>                        |  | ✓  | ✓                      | ✓                      |  |                        |  |  |  |                     |  |
| HP K and D Class (pa-risc) <sup>3</sup>                  |  | ✓  | ✓                      | ✓                      |  |                        |  |  |  |                     |  |
| <b>Workstations</b>                                      |  |  |                        |                        |  |                        |  |  |  |                     |  |
| HP B-Class (pa-risc)                                     |  | ✓  |                        |                        |  |                        |  |  |  |                     | ✓  |
| HP C-Class (pa-risc)                                     |  | ✓  |                        |                        |  |                        |  |  |  |                     | ✓  |
| HP J-Class (pa-risc)                                     |  | ✓  |                        |                        |  |                        |  |  |  |                     | ✓  |
| <b>Fibre Host Bus Adapters <sup>5</sup></b>              |  |  |                        |                        |  |                        |  |  |  |                     |  |
| AB465A (2G Combo Card)                                   |  |  |                        |                        |  |                        |  |  |  |                     |  |
| FW   |  |  |                        |                        |  |                        |  |  |  |                     |  |
| fcd Driver   | Native   | Native   |                        |                        |  |                        | Native   |  | Native   |                     | Native   |
| A9782 (2G Combo Card)                                    |  |  |                        |                        |  |                        |  |  |  |                     |  |
| FW   |  |  |                        |                        |  |                        |  |  |  |                     |  |
| fcd Driver   | Native   | Native   |                        |                        |  |                        | Native   |  | Native   |                     | Native   |
| A9784 (2G Combo Card)                                    |  |  |                        |                        |  |                        |  |  |  |                     |  |
| FW   |  |  |                        |                        |  |                        |  |  |  |                     |  |
| fcd Driver   | Native   | Native   |                        |                        |  |                        | Native   |  | Native   |                     | Native   |
| A6826A (2G)  |  |  |                        |                        |  |                        |  |  |  |                     |  |
| fcd Driver   | Native   | Native   |                        |                        |  |                        | Native   | Native   | Native   |                     | Native   |
| FW   | 3.02.165                                       | 3.02.165                                       |                        |                        |  |                        | 3.02.165                                       | 3.02.165                                       | 3.02.165                                       |                     | 3.02.165                                       |
| A6795A (2G)  |  |  |                        |                        |  |                        |  |  |  |                     |  |
| Id Driver  | Native   | Native   | Native                 | Native                 | Native   | Native                 | Native   | Native   | Native   |                     | Native   |
| A6684A (1G)  |  |  |                        |                        |  |                        |  |  |  |                     |  |
| Id Driver  | Native   | Native   |                        |                        |  |                        | Native   |  |  |                     | Native   |
| A6685A (1G)  |  |  |                        |                        |  |                        |  |  |  |                     |  |
| Id Driver  | Native   | Native   |                        |                        |  |                        | Native   |  |  |                     | Native   |
| A5158A (1G)  |  |  |                        |                        |  |                        |  |  |  |                     |  |
| Id Driver  | Native   | Native   | Native                 | Native                 | Native   | Native                 | Native   | Native   | Native   |                     | Native   |
| <b>Disk Array Multipath Support <sup>5</sup></b>         |  |  |                        |                        |  |                        |  |  |  |                     |  |
| AutoPath for HP-UX                                       | 2.01.02  | 2.01.02  |                        |                        |  |                        | 2.01.02  |  |  |                     | 2.01.02  |
| Secure Path for HP-UX                                    | 3.0E   | 3.0E   | 3.0C                   | 3.0C                   | 3.0C   | 3.0C                   | 3.0E   | 3.0E   | 3.0E   |                     | 3.0E   |
| <b>High Availability <sup>4</sup></b>                    |  |  |                        |                        |  |                        |  |  |  |                     |  |
| HP-UX (Service Guard)                                    |  | ✓ <sup>3</sup>                                 |                        |                        |  |                        | ✓ <sup>3</sup>                                 |  |  |                     |  |

**NOTES:**

- 1) Other Operating Systems not listed above may be supported within EBS by the respective ISVs as LAN clients
- 2) Please reference your ISV support matrices for supported application and operating system version compatibility

- 3) ATS is not supported.
- 4) 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.

- 5) 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

## HP-UX (IA-64)

| DAS, DAF, and SAN Support                                   | Current Release | HP Data Protector | Atempo Time Navigator                              | BakBone NetVault                                   | CA ARCserve | CommVault Galaxy | EMC Legato NetWorker                               | Syncsort Backup Express                            | Tivoli Storage Manager | VERITAS Backup Exec | VERITAS NetBackup |
|---|-----------------|-------------------|--|--|-------------|------------------|--|--|------------------------|---------------------|-------------------|
| <b>Operating Systems <sup>1, 2</sup></b>                    |                 |                   |  |  |             |                  |  |  |                        |                     |                   |
| HP-UX 11.23 (11i v2)  | Sept 2004       | Sept 2004         | HWE 11.23<br>March 2004<br>Gold Pack<br>March 2004 | HWE 11.23<br>March 2004<br>Gold Pack<br>March 2004 |             |                  | HWE 11.23<br>March 2004<br>Gold Pack<br>March 2004 | HWE 11.23<br>March 2004<br>Gold Pack<br>March 2004 | Sept 2004              |                     |                   |
| <b>Servers</b>  |                 |                   |  |  |             |                  |  |  |                        |                     |                   |
| HP Integrity Superdome and Mid-Range (rx7000-rx8000, IA-64) |                 | ✓                 |  |  |             |                  | ✓  |  |                        |                     |                   |
| HP Integrity Entry-Level (rx1000-rx6000, IA-64)             |                 | ✓ <sup>4</sup>    | ✓  | ✓  |             |                  | ✓  | ✓  | ✓                      |                     |                   |
| <b>Workstations</b>   |                 |                   |  |  |             |                  |  |  |                        |                     |                   |
| HP xz series (IA)   |                 | ✓                 |  |  |             |                  |  |  |                        |                     |                   |
| <b>Fibre Host Bus Adapters <sup>5</sup></b>                 |                 |                   |  |  |             |                  |  |  |                        |                     |                   |
| AB465A (2G Combo Card)                                      |                 |                   |  |  |             |                  |  |  |                        |                     |                   |
| FW  |                 |                   |  |  |             |                  |  |  |                        |                     |                   |
| fcd Driver  | Native          | Native            |  |  |             |                  | Native   |  |                        |                     |                   |
| A9782 (2G Combo Card)                                       |                 |                   |  |  |             |                  |  |  |                        |                     |                   |
| FW  |                 |                   |  |  |             |                  |  |  |                        |                     |                   |
| fcd Driver  | Native          | Native            | Native   | Native   |             |                  | Native   |  |                        |                     |                   |
| A9784 (2G Combo Card)                                       |                 |                   |  |  |             |                  |  |  |                        |                     |                   |
| FW  |                 |                   |  |  |             |                  |  |  |                        |                     |                   |
| fcd Driver  | Native          | Native            | Native   | Native   |             |                  | Native   |  |                        |                     |                   |
| A6795A (2G)   |                 |                   |  |  |             |                  |  |  |                        |                     |                   |
| FW  |                 |                   |  |  |             |                  |  |  |                        |                     |                   |
| td Driver   | 1.10            | 1.10              |  |  |             |                  | 1.10   | 1.10   | 1.10                   |                     |                   |
| A6826A (2G)   |                 |                   |  |  |             |                  |  |  |                        |                     |                   |
| FW  |                 |                   |  |  |             |                  |  |  |                        |                     |                   |
| fcd Driver  | 3.02.165        | 3.02.165          | 3.02.165   | 3.02.165   |             |                  | 3.02.165   |  | 3.02.165               |                     |                   |
| Disk Array Multipath Support <sup>5</sup>                   |                 |                   |  |  |             |                  |  |  |                        |                     |                   |
| AutoPath for HP-UX  | 2.01.02         | 2.01.02           |  |  |             |                  | 2.01.02  |  |                        |                     |                   |
| Secure Path for HP-UX                                       | 3.0E            | 3.0E              | 3.0C   | 3.0C   |             |                  | 3.0E   | 3.0E   | 3.0E                   |                     |                   |
| <b>High Availability <sup>6</sup></b>                       |                 |                   |  |  |             |                  |  |  |                        |                     |                   |
| HP-UX (Service Guard)                                       |                 | ✓ <sup>3</sup>    |  |  |             |                  | ✓ <sup>3</sup>                                     |  |                        |                     |                   |

**NOTES:**

- 1) Other Operating Systems not listed above may be supported within EBS by the respective ISVs as LAN clients.
- 2) Please reference your ISV support matrices for supported application and operating system version compatibility.
- 3) ATS is not supported.

- 5) 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.
- 4) Data Protector 5.0 support in 32-bit emulation mode.

- 6) 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.

## Windows (32-bit)

| DAS, DAF, and SAN Support                      | Current Release | HP Data Protector | Atempo Time Navigator | BakBone NetVault | CA ARCserve | CommVault Galaxy | EMC Legato NetWorker | Syncsort Backup Express | Tivoli Storage Manager | VERITAS Backup Exec | VERITAS NetBackup |
|--|-----------------|-------------------|-----------------------|------------------|-------------|------------------|----------------------|-------------------------|------------------------|---------------------|-------------------|
| <b>Operating Systems <sup>1, 2</sup></b>       |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| Windows NT 4.0                                 | sp6a            | sp6a              | sp6a                  | sp6a             | sp6a        | sp6a             | sp6a                 | sp6a                    | sp6a                   | sp6a                | sp6a              |
| Windows 2000 Server/AS                         | sp4             | sp4               | sp4                   | sp4              | sp4         | sp4              | sp4                  | sp4                     | sp4                    | sp4                 | sp4               |
| Windows Server 2003 (32-bit)                   | sp1             | sp1               | ✓                     | ✓                | ✓           | ✓                | sp1                  | ✓                       | ✓                      | sp1                 | ✓                 |
| <b>Servers</b>                                 |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| HP ProLiant                                    |                 | ✓                 | ✓                     | ✓                | ✓           | ✓                | ✓                    | ✓                       | ✓                      | ✓                   | ✓                 |
| HP ProLiant Blade Server                       |                 | ✓                 | ✓                     |                  | ✓           | ✓                | ✓                    | ✓                       | ✓                      | ✓                   | ✓                 |
| HP NetServer                                   |                 | ✓                 | ✓                     | ✓                | ✓           | ✓                | ✓                    | ✓                       | ✓                      | ✓                   | ✓                 |
| Third Party X86                                |                 | ✓                 | ✓                     | ✓                | ✓           | ✓                | ✓                    | ✓                       | ✓                      | ✓                   | ✓                 |
| <b>Fibre Host Bus Adapters <sup>5, 6</sup></b> |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| <b>HP Branded / 3rd Party</b>                  |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| A7387A / Emulex LP1050DC                       |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| FW   | 1.90a4          | 1.90a4            |                       |                  | 1.90a4      |                  | 1.90a4               |                         | 1.90a4                 | 1.90a4              | 1.90a4            |
| WIN 2000/2003 SCSIport Driver                  | 5-5.10a10       | 5-5.10a10         |                       |                  | 5-5.10a10   |                  | 5-5.10a10            |                         | 5-5.10a10              | 5-5.10a10           | 5-5.10a10         |
| WIN 2003 StorPort Driver <sup>3,4</sup>        | 5-1.02a6        | 5-1.02a6          |                       |                  | 5-1.02a6    |                  | 5-1.02a6             |                         | 5-1.02a6               | 5-1.02a6            | 5-1.02a6          |
| A7388A / Emulex LP1050                         |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| FW   | 1.90a4          | 1.90a4            |                       |                  | 1.90a4      |                  | 1.90a4               |                         | 1.90a4                 | 1.90a4              | 1.90a4            |
| WIN 2000/2003 SCSIport Driver                  | 5-5.10a10       | 5-5.10a10         |                       |                  | 5-5.10a10   |                  | 5-5.10a10            |                         | 5-5.10a10              | 5-5.10a10           | 5-5.10a10         |
| WIN 2003 StorPort Driver <sup>3,4</sup>        | 5-1.02a6        | 5-1.02a6          |                       |                  | 5-1.02a6    |                  | 5-1.02a6             |                         | 5-1.02a6               | 5-1.02a6            | 5-1.02a6          |
| A7560A / Emulex LP1050EX-F2                    |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| FW   | 1.90a4          |                   |                       |                  |             |                  | 1.90a4               |                         |                        | 1.90a4              | 1.90a4            |
| WIN 2000/2003 SCSIport Driver                  | 5-5.10a10       |                   |                       |                  |             |                  | 5-5.10a10            |                         |                        | 5-5.10a10           | 5-5.10a10         |
| WIN 2003 StorPort Driver <sup>3,4</sup>        | 5-1.02a6        |                   |                       |                  |             |                  | 5-1.02a6             |                         |                        | 5-1.02a6            | 5-1.02a6          |
| FCA2355 / Emulex LP9002DC                      |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| FW   | 3.92a2          | 3.92a2            | 3.92a2                | 3.92a2           | 3.92a2      | 3.92a2           | 3.92a2               | 3.92a2                  | 3.92a2                 | 3.92a2              | 3.92a2            |
| 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           | 4-4.82a16         |
| WIN 2000/2003 SCSIport Driver                  | 5-5.10a10       | 5-5.10a10         | 5-5.10a9              | 5-5.10a9         | 5-5.10a10   | 5-5.10a9         | 5-5.10a10            | 5-5.10a10               | 5-5.10a10              | 5-5.10a10           | 5-5.10a10         |
| WIN 2003 StorPort Driver <sup>3,4</sup>        | 5-1.02a6        | 5-1.02a6          |                       |                  | 5-1.02a6    |                  | 5-1.02a6             |                         | 5-1.02a6               | 5-1.02a6            | 5-1.02a6          |

**NOTES:**

- 1) Other Operating Systems not listed above may be supported within EBS by the respective ISVs as LAN clients.
- 2) Please reference your ISV support matrices for supported application and operating system version compatibility.
- 3) Requires updated Storport.sys QFE837413 (minimum) or QFE891793 (recommended).

- 4) Please reference ISV application installation/support documents for specific driver and patch requirements.
- 5) 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.

- 6) 3rd Party adapters require HP drivers and firmware.

## Windows (32-bit) - Continued

| DAS, DAF, and SAN Support                     | Current Release | HP Data Protector | Atempo Time Navigator | BakBone NetVault | CA ARCserve | CommVault Galaxy | EMC Legato NetWorker | Syncsort Backup Express | Tivoli Storage Manager | VERITAS Backup Exec | VERITAS NetBackup |
|---|-----------------|-------------------|-----------------------|------------------|-------------|------------------|----------------------|-------------------------|------------------------|---------------------|-------------------|
| <b>Fibre Host Bus Adapters<sup>1, 2</sup></b> |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| <b>HP Branded / 3rd Party</b>                 |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| FCA2408 / Emulex LP982                        |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| FW  | 1.90a4          | 1.90a4            | 1.81a2                | 1.81a2           | 1.90a4      | 1.81a2           | 1.90a4               | 1.01a2                  | 1.90a4                 | 1.90a4              | 1.90a4            |
| WIN 2000/2003 SCSIport Driver                 | 5-5.10a10       | 5-5.10a10         | 5-5.10a9              | 5-5.10a9         | 5-5.10a10   | 5-5.10a9         | 5-5.10a10            | 5-4.82a16               | 5-5.10a10              | 5-5.10a10           | 5-5.10a10         |
| WIN 2003 StorPort Driver <sup>3,4</sup>       | 5-1.02a6        | 5-1.02a6          |                       |                  | 5-1.02a6    |                  | 5-1.02a6             |                         | 5-1.02a6               | 5-1.02a6            | 5-1.02a6          |
| BL20p Blade Server (2G)                       |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| FW  | 1.43            | 1.43              | 1.34                  |                  | 1.43        | 1.34             | 1.43                 | 1.43                    | 1.43                   | 1.43                | 1.43              |
| WIN 2000/2003 SCSIport Driver                 | 9.0.0.13        | 9.0.0.13          | 9.0.0.13              |                  | 9.0.0.13    | 9.0.0.13         | 9.0.0.13             | 9.0.0.13                | 9.0.0.13               | 9.0.0.13            | 9.0.0.13          |
| WIN 2003 StorPort Driver <sup>3,4</sup>       |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| BL25p Blade Server (2G)                       |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| FW  | 1.48            | 1.48              |                       |                  |             |                  | 1.48                 |                         | 1.48                   | 1.48                | 1.48              |
| WIN 2000/2003 SCSIport Driver                 | 9.0.0.14        | 9.0.0.14          |                       |                  |             |                  | 9.0.0.14             |                         | 9.0.0.14               | 9.0.0.14            | 9.0.0.14          |
| WIN 2003 StorPort Driver <sup>3,4</sup>       |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| BL30p Blade Server (2G)                       |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| FW  | 1.43            | 1.43              | 1.43                  |                  | 1.43        | 1.43             | 1.43                 | 1.43                    | 1.43                   | 1.43                | 1.43              |
| WIN 2000/2003 SCSIport Driver                 | 9.0.0.14        | 9.0.0.14          | 9.0.0.14              |                  | 9.0.0.14    | 9.0.0.14         | 9.0.0.14             | 9.0.0.14                | 9.0.0.14               | 9.0.0.14            | 9.0.0.14          |
| WIN 2003 StorPort Driver <sup>3,4</sup>       |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| BL35p Blade Server (2G)                       |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| FW  | 1.43            | 1.43              |                       |                  |             |                  | 1.43                 |                         | 1.43                   | 1.43                | 1.43              |
| WIN 2000/2003 SCSIport Driver                 | 9.0.0.14        | 9.0.0.14          |                       |                  |             |                  | 9.0.0.14             |                         | 9.0.0.14               | 9.0.0.14            | 9.0.0.14          |
| WIN 2003 StorPort Driver <sup>3,4</sup>       |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| FCA2101 / Emulex LP952                        |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| FW  | 3.92a2          | 3.92a2            | 3.92a2                | 3.92a2           | 3.92a2      | 3.92a2           | 3.92a2               | 3.92a2                  | 3.92a2                 | 3.92a2              | 3.92a2            |
| 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           | 4-4.82a16         |
| WIN 2000/2003 SCSIport Driver                 | 5-5.10a10       | 5-5.10a10         | 5-5.10a9              | 5-5.10a9         | 5-5.10a10   | 5-5.10a9         | 5-5.10a10            | 5-5.10a10               | 5-5.10a10              | 5-5.10a10           | 5-5.10a10         |
| WIN 2003 StorPort Driver <sup>3,4</sup>       | 5-1.02a6        | 5-1.02a6          |                       |                  | 5-1.02a6    |                  | 5-1.02a6             |                         | 5-1.02a6               | 5-1.02a6            | 5-1.02a6          |
| FCA2404 / Emulex LP9802                       |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| FW  | 1.90a4          | 1.90a4            | 1.81a2                | 1.81a2           | 1.90a4      | 1.81a2           | 1.90a4               | 1.90a4                  | 1.90a4                 | 1.90a4              | 1.90a4            |
| WIN 2000/2003 SCSIport Driver                 | 5-5.10a10       | 5-5.10a10         | 5-5.10a9              | 5-5.10a9         | 5-5.10a10   | 5-5.10a9         | 5-5.10a10            | 5-5.10a10               | 5-5.10a10              | 5-5.10a10           | 5-5.10a10         |
| WIN 2003 StorPort Driver <sup>3,4</sup>       | 5-1.02a6        | 5-1.02a6          |                       |                  | 5-1.02a6    |                  | 5-1.02a6             |                         | 5-1.02a6               | 5-1.02a6            | 5-1.02a6          |
| FCA2404DC / Emulex LP9802DC                   |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| FW  | 1.90a4          | 1.90a4            | 1.81a2                | 1.81a2           | 1.90a4      | 1.81a2           | 1.90a4               | 1.90a4                  | 1.90a4                 | 1.90a4              | 1.90a4            |
| WIN 2000/2003 SCSIport Driver                 | 5-5.10a10       | 5-5.10a10         | 5-5.10a9              | 5-5.10a9         | 5-5.10a10   | 5-5.10a9         | 5-5.10a10            | 5-5.10a10               | 5-5.10a10              | 5-5.10a10           | 5-5.10a10         |
| WIN 2003 StorPort Driver <sup>3,4</sup>       | 5-1.02a6        | 5-1.02a6          |                       |                  | 5-1.02a6    |                  | 5-1.02a6             |                         | 5-1.02a6               | 5-1.02a6            | 5-1.02a6          |

**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.

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2) 3rd Party adapters require HP drivers and firmware.  
 3) Requires updated Storport.sys QFE837413 (minimum) or QFE891793 (recommended).

4) Please reference ISV application installation/support documents for specific driver and patch requirements.

## Windows (32-bit) - Continued

| DAS, DAF, and SAN Support                        | Current Release | HP Data Protector | Atempo Time Navigator | BakBone NetVault | CA ARCserve | CommVault Galaxy | EMC Legato NetWorker | Syncsort Backup Express | Tivoli Storage Manager | VERITAS Backup Exec | VERITAS NetBackup |
|--|-----------------|-------------------|-----------------------|------------------|-------------|------------------|----------------------|-------------------------|------------------------|---------------------|-------------------|
| <b>Fibre Host Bus Adapters <sup>1, 6</sup></b>   |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| <b>HP Branded / 3rd Party</b>                    |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| FCA2214DC / QLogic 2342                          |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| FW   | 1.45            | 1.45              | 1.34                  |                  | 1.45        | 1.34             | 1.45                 | 1.45                    | 1.45                   | 1.45                | 1.45              |
| WIN 2000/2003 SCSIport Driver                    | 9.0.2.11        | 9.0.2.11          | 9.0.0.13              |                  | 9.0.2.11    | 9.0.0.13         | 9.0.2.11             | 9.0.2.11                | 9.0.2.11               | 9.0.2.11            | 9.0.2.11          |
| WIN 2003 StorPort Driver <sup>7,8</sup>          | 9.0.2.16        | 9.0.2.16          |                       |                  | 9.0.2.16    |                  | 9.0.2.16             |                         |                        | 9.0.2.16            | 9.0.2.16          |
| FCA2214 / QLogic 2340                            |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| FW   | 1.45            | 1.45              | 1.34                  |                  | 1.45        | 1.34             | 1.45                 | 1.45                    | 1.45                   | 1.45                | 1.45              |
| WIN 2000/2003 SCSIport Driver                    | 9.0.2.11        | 9.0.2.11          | 9.0.0.13              |                  | 9.0.2.11    | 9.0.0.13         | 9.0.2.11             | 9.0.2.11                | 9.0.2.11               | 9.0.2.11            | 9.0.2.11          |
| WIN 2003 StorPort Driver <sup>7,8</sup>          | 9.0.2.16        | 9.0.2.16          |                       |                  | 9.0.2.16    |                  | 9.0.2.16             |                         |                        | 9.0.2.16            | 9.0.2.16          |
| KGPSA-CB / Emulex LP8000                         |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| FW   | 3.92a2          | 3.92a2            | 3.92a2                | 3.92a2           | 3.92a2      | 3.92a2           | 3.92a2               | 3.92a2                  | 3.92a2                 | 3.92a2              | 3.92a2            |
| 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           | 4-4.82a16         |
| WIN 2000/2003 SCSIport Driver                    | 5-5.10a10       | 5-5.10a10         | 5-5.10a9              | 5-5.10a9         | 5-5.10a10   | 5-5.10a9         | 5-5.10a10            | 5-5.10a10               | 5-5.10a10              | 5-5.10a10           | 5-5.10a10         |
| WIN 2003 StorPort Driver <sup>7,8</sup>          | 5-1.02a6        | 5-1.02a6          |                       |                  | 5-1.02a6    |                  | 5-1.02a6             |                         | 5-1.02a6               | 5-1.02a6            | 5-1.02a6          |
| <b>Fibre Host Bus Adapters <sup>1,9</sup></b>    |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| <b>3rd Party Drivers</b>                         |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| Emulex LP982 (Full-Port Driver)                  |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| FW   | 1.01a2          | 1.01a2            |                       |                  |             |                  |                      |                         |                        |                     | 1.01a2            |
| WIN 2000/2003 Full-Port Driver                   | 2.21a0          | 2.21a0            |                       |                  |             |                  |                      |                         |                        |                     | 2.21a0            |
| <b>Disk Array Multipath Support <sup>1</sup></b> |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| Secure Path for Windows                          | 4.0C SP1        | 4.0C SP1          | 4.0C                  | 4.0C             | 4.0C SP1    | 4.0C             | 4.0C SP1             | 4.0C SP1                | 4.0C SP1               | 4.0C SP1            | 4.0C SP1          |
| Windows MPIO <sup>5</sup>                        | 1.0             | 1.0               |                       |                  |             |                  | 1.0                  |                         | 1.0                    | 1.0                 | 1.0               |
| 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                |                   |
| <b>High Availability <sup>2</sup></b>            |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| Windows (MSCS)                                   |                 | ✓ <sup>3</sup>    | ✓                     | ✓                |             | ✓                | ✓                    | ✓                       | ✓ <sup>10</sup>        | ✓ <sup>4</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) 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.

- 3) Supported on Windows 2000 only.
- 4) Support includes NAS9000 and NAS4000 platforms.
- 5) Windows Full-Feature MPIO failover support. Clusters sharing disk and tape on the same HBA require StorPort.
- 6) 3rd Party adapters require HP drivers and firmware.

- 7) Requires updated Storport.sys QFE837413 (minimum) or QFE891793 (recommended).
- 8) Please reference ISV application installation/support documents for specific driver and patch requirements.
- 9) Supported for tape connections only.
- 10) Not supported with TSM 5.3.x.



## Windows (IA-64)

| DAS, DAF, and SAN Support                                   | Current Release | HP Data Protector | Atempo Time Navigator | BakBone NetVault | CA ARCserve | CommVault Galaxy | EMC Legato NetWorker | Syncsort Backup Express | Tivoli Storage Manager | VERITAS Backup Exec | VERITAS NetBackup |
|---|-----------------|-------------------|-----------------------|------------------|-------------|------------------|----------------------|-------------------------|------------------------|---------------------|-------------------|
| <b>Operating Systems <sup>1, 2</sup></b>                    |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| Windows Server 2003 (64-bit)                                | sp1             | ✓                 | ✓                     |                  |             | ✓                | sp1                  | ✓                       | sp1                    |                     | ✓                 |
| <b>Servers</b>  |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| HP Integrity Superdome and Mid-Range (rx7000-rx8000, IA-64) |                 | ✓                 |                       |                  |             |                  | ✓                    |                         |                        |                     |                   |
| HP Integrity Entry-Level (rx1000-rx6000, IA-64)             |                 | ✓ <sup>5</sup>    | ✓                     |                  |             | ✓                | ✓                    | ✓                       | ✓                      |                     | ✓                 |
| <b>Fibre Host Bus Adapters <sup>4, 7</sup></b>              |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| <b>HP Branded / 3rd Party</b>                               |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| AB466A / Emulex LP1050DC                                    |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| FW  | 1.90a4          | 1.90a4            |                       |                  |             |                  | 1.90a4               |                         | 1.90a4                 |                     | 1.90a4            |
| WIN 2003 SCSIport Driver                                    | 6-5.10a10       | 6-5.10a10         |                       |                  |             |                  | 6-5.10a10            |                         | 6-5.10a10              |                     | 6-5.10a10         |
| WIN 2003 StorPort Driver <sup>8, 9</sup>                    | 6-1.03a10       | 6-1.03a10         |                       |                  |             |                  | 6-1.03a10            |                         |                        |                     | 6-1.03a10         |
| AB467A / Emulex LP1050                                      |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| FW  | 1.90a4          | 1.90a4            |                       |                  |             |                  | 1.90a4               |                         | 1.90a4                 |                     | 1.90a4            |
| WIN 2003 SCSIport Driver                                    | 6-5.10a10       | 6-5.10a10         |                       |                  |             |                  | 6-5.10a10            |                         | 6-5.10a10              |                     | 6-5.10a10         |
| WIN 2003 StorPort Driver <sup>8, 9</sup>                    | 6-1.03a10       | 6-1.03a10         |                       |                  |             |                  | 6-1.03a10            |                         |                        |                     | 6-1.03a10         |
| A7298A / Emulex LP982                                       |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| FW  | 1.90a4          | 1.90a4            | 1.81a2                |                  |             | 1.81a2           | 1.90a4               | 1.90a4                  | 1.90a4                 |                     | 1.90a4            |
| WIN 2003 SCSIport Driver                                    | 6-5.10a10       | 6-5.10a10         | 6-5.10a9              |                  |             | 6-5.10a9         | 6-5.10a10            | 6-5.10a10               | 6-5.10a10              |                     | 6-5.10a10         |
| WIN 2003 StorPort Driver <sup>8, 9</sup>                    | 6-1.03a10       | 6-1.03a10         |                       |                  |             |                  | 6-1.03a10            |                         |                        |                     | 6-1.03a10         |
| AB232A / Emulex LP9802                                      |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| FW  | 1.90a4          | 1.90a4            | 1.81a2                |                  |             | 1.81a2           | 1.90a4               |                         | 1.90a4                 |                     | 1.90a4            |
| WIN 2003 SCSIport Driver                                    | 6-5.10a10       | 6-5.10a10         | 6-5.10a9              |                  |             | 6-5.10a9         | 6-5.10a10            |                         | 6-5.10a10              |                     | 6-5.10a10         |
| WIN 2003 StorPort Driver <sup>8, 9</sup>                    | 6-1.03a10       | 6-1.03a10         |                       |                  |             |                  | 6-1.03a10            |                         |                        |                     | 6-1.03a10         |
| <b>Disk Array Multipath Support <sup>4</sup></b>            |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| Secure Path for Windows                                     | 4.0C SP1        | 4.0C SP1          | 4.0C                  |                  |             | 4.0C             | 4.0C SP1             | 4.0B                    | 4.0C SP1               |                     | 4.0C SP1          |
| Windows MPIO <sup>6</sup>                                   | 1.0             | 1.0               |                       |                  |             |                  | 1.0                  |                         | 1.0                    |                     | 1.0               |
| AutoPath for Windows 2003                                   | 1.00            |                   |                       |                  |             |                  | 1.00                 |                         |                        |                     |                   |
| <b>High Availability <sup>3</sup></b>                       |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| Windows (MSCS)  |                 |                   | ✓                     |                  |             |                  | ✓                    | ✓                       | ✓                      |                     | ✓                 |

**NOTES:**

- 1) Other Operating Systems not listed above may be supported within EBS by the respective ISVs as LAN clients
- 2) Please reference your ISV support matrices for supported application and operating system version compatibility
- 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.

- 4) 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.
- 5) Data Protector 5.0 support in 32-bit emulation mode
- 6) Windows Full-Feature MPIO failover support. Clusters sharing disk and tape on the same HBA require StorPort.
- 7) 3rd Party adapters require HP drivers and firmware.

- 8) Requires updated Storport.sys QFE89173 (minimum).
- 9) Please reference ISV application installation/support documents for specific driver and patch requirements.

# LINUX (32-bit) <sup>4</sup>

| DAS, DAF, and SAN Support                      | Current Release | HP Data Protector | Atempo Time Navigator | BakBone NetVault | CA ARCserve | CommVault Galaxy | EMC Legato NetWorker | Syncsort Backup Express | Tivoli Storage Manager | VERITAS Backup Exec | VERITAS NetBackup |
|--|-----------------|-------------------|-----------------------|------------------|-------------|------------------|----------------------|-------------------------|------------------------|---------------------|-------------------|
| <b>Operating Systems <sup>1, 2</sup></b>       |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| Red Hat Advanced Server 2.1 (32-bit)           |                 | ✓                 | ✓                     | ✓                | ✓           | ✓                | ✓                    | ✓                       | ✓                      |                     | ✓                 |
| Red Hat Enterprise Linux 3.0 (32-bit)          |                 | ✓                 | ✓                     | ✓                | ✓           |                  | ✓                    | ✓                       | ✓                      |                     | ✓                 |
| Red Hat Enterprise Linux 4.0 (32-bit)          |                 |                   |                       |                  |             |                  |                      |                         | ✓                      |                     |                   |
| United Linux 1.0/SuSE SLES 8 (32-bit)          |                 | ✓                 | ✓                     | ✓                | ✓           |                  | ✓                    | ✓                       | ✓                      |                     | ✓                 |
| SuSE SLES 9 (32-bit)                           |                 |                   |                       |                  |             |                  |                      |                         | ✓                      |                     |                   |
| <b>Servers</b>                                 |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| HP ProLiant                                    |                 | ✓                 | ✓                     | ✓                | ✓           | ✓                | ✓                    | ✓                       | ✓                      |                     | ✓                 |
| HP ProLiant Blade Server                       |                 | ✓                 | ✓                     |                  | ✓           | ✓                | ✓                    | ✓                       | ✓                      |                     | ✓                 |
| HP NetServer                                   |                 | ✓                 | ✓                     | ✓                | ✓           | ✓                | ✓                    | ✓                       | ✓                      |                     | ✓                 |
| Third Party X86                                |                 | ✓                 | ✓                     | ✓                | ✓           | ✓                | ✓                    | ✓                       | ✓                      |                     | ✓                 |
| <b>Fibre Host Bus Adapters <sup>3, 5</sup></b> |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| <b>HP Branded / 3rd Party</b>                  |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| FCA2214DC / QLogic 2342 (2G)                   |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| FW   | 1.45            | 1.45              | 1.34                  | 1.34             | 1.45        | 1.34             | 1.45                 | 1.45                    | 1.45                   |                     | 1.45              |
| Red Hat Advanced Server 2.1 driver             | 7.05.00         | 7.05.00           | 7.00.03               | 7.00.03          | 7.05.00     | 6.06.50          | 7.05.00              | 7.01.01                 | 7.05.00                |                     | 7.05.00           |
| Red Hat Enterprise Linux 3.0 driver            | 7.05.00         | 7.05.00           | 7.00.03               | 7.00.03          | 7.05.00     | 6.06.50          | 7.05.00              | 7.01.01                 | 7.05.00                |                     | 7.05.00           |
| Red Hat Enterprise Linux 4.0 driver            | 8.00.02         |                   |                       |                  |             |                  |                      |                         | 8.00.02                |                     |                   |
| United Linux 1.0/SuSE SLES 8 driver            | 7.05.00         | 7.05.00           | 7.00.03               | 7.00.03          | 7.05.00     | 6.06.50          | 7.05.00              | 7.01.01                 | 7.05.00                |                     | 7.05.00           |
| SuSE SLES 9 driver                             | 8.00.02         |                   |                       |                  |             |                  |                      |                         | 8.00.02                |                     |                   |
| FCA2214 / QLogic 2340 (2G)                     |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| FW   | 1.45            | 1.45              | 1.34                  | 1.34             | 1.45        | 1.34             | 1.45                 | 1.45                    | 1.45                   |                     | 1.45              |
| Red Hat Advanced Server 2.1 driver             | 7.05.00         | 7.05.00           | 7.00.03               | 7.00.03          | 7.05.00     | 6.06.50          | 7.05.00              | 7.01.01                 | 7.05.00                |                     | 7.05.00           |
| Red Hat Enterprise Linux 3.0 driver            | 7.05.00         | 7.05.00           | 7.00.03               | 7.00.03          | 7.05.00     | 6.06.50          | 7.05.00              | 7.01.01                 | 7.05.00                |                     | 7.05.00           |
| Red Hat Enterprise Linux 4.0 driver            | 8.00.02         |                   |                       |                  |             |                  |                      |                         | 8.00.02                |                     |                   |
| United Linux 1.0/SuSE SLES 8 driver            | 7.05.00         | 7.05.00           | 7.00.03               | 7.00.03          | 7.05.00     | 6.06.50          | 7.05.00              | 7.01.01                 | 7.05.00                |                     | 7.05.00           |
| SuSE SLES 9 driver                             | 8.00.02         |                   |                       |                  |             |                  |                      |                         | 8.00.02                |                     |                   |
| BL20p Blade Server (2G)                        |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| FW   | 1.45            | 1.45              | 1.34                  | 1.34             | 1.45        | 1.34             | 1.45                 | 1.45                    | 1.45                   |                     | 1.45              |
| Red Hat Advanced Server 2.1 driver             | 7.05.00         | 7.05.00           | 7.00.03               | 7.00.03          | 7.05.00     | 6.06.50          | 7.05.00              | 7.05.00                 | 7.05.00                |                     | 7.05.00           |
| Red Hat Enterprise Linux 3.0 driver            | 7.05.00         | 7.05.00           | 7.00.03               | 7.00.03          | 7.05.00     | 6.06.50          | 7.05.00              | 7.05.00                 | 7.05.00                |                     | 7.05.00           |
| Red Hat Enterprise Linux 4.0 driver            | 8.00.02         |                   |                       |                  |             |                  |                      |                         | 8.00.02                |                     |                   |
| United Linux 1.0/SuSE SLES 8 driver            | 7.05.00         | 7.05.00           | 7.00.03               | 7.00.03          | 7.05.00     | 6.06.50          | 7.05.00              | 7.05.00                 | 7.05.00                |                     | 7.05.00           |
| SuSE SLES 9 driver                             | 8.00.02         |                   |                       |                  |             |                  |                      |                         | 8.00.02                |                     |                   |

**NOTES:**

- 1) Other Operating Systems not listed above may be supported within EBS by the respective ISVs as LAN clients
- 2) Please reference your ISV support matrices for supported application and operating system version compatibility

- 3) 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
- 4) EBS is not dependent on specific kernel errata levels. For required/supported kernel errata, refer to your online storage array and backup application support documentation.
- 5) 3rd Party adapters require HP drivers and firmware.

# LINUX (32-bit)<sup>4</sup> - Continued

| DAS, DAF, and SAN Support                       | Current Release | HP Data Protector | Atempo Time Navigator | BakBone NetVault | CA ARCserve | CommVault Galaxy | EMC Legato NetWorker | Syncsort Backup Express | Tivoli Storage Manager | VERITAS Backup Exec | VERITAS NetBackup |
|---|-----------------|-------------------|-----------------------|------------------|-------------|------------------|----------------------|-------------------------|------------------------|---------------------|-------------------|
| <b>Fibre Host Bus Adapters<sup>3, 5</sup></b>   |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| <b>HP Branded / 3rd Party</b>                   |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| BL25p Blade Server (2G)                         |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| FW  | 1.48            | 1.48              |                       |                  |             |                  |                      |                         | 1.48                   |                     | 1.48              |
| Red Hat Advanced Server 2.1 driver              | 7.05.00         | 7.05.00           |                       |                  |             |                  |                      |                         | 7.05.00                |                     | 7.05.00           |
| Red Hat Enterprise Linux 3.0 driver             | 7.05.00         | 7.05.00           |                       |                  |             |                  |                      |                         | 7.05.00                |                     | 7.05.00           |
| Red Hat Enterprise Linux 4.0 driver             | 8.00.02         |                   |                       |                  |             |                  |                      |                         | 8.00.02                |                     |                   |
| United Linux 1.0/SuSE SLES 8 driver             | 7.05.00         | 7.05.00           |                       |                  |             |                  |                      |                         | 7.05.00                |                     | 7.05.00           |
| SuSE SLES 9 driver                              | 8.00.02         |                   |                       |                  |             |                  |                      |                         | 8.00.02                |                     |                   |
| BL30p Blade Server (2G)                         |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| FW  | 1.45            | 1.45              | 1.34                  |                  | 1.45        | 1.34             | 1.45                 | 1.45                    | 1.45                   |                     | 1.45              |
| Red Hat Advanced Server 2.1 driver              | 7.05.00         | 7.05.00           | 7.00.03               |                  | 7.05.00     | 6.06.50          | 7.05.00              | 7.05.00                 | 7.05.00                |                     | 7.05.00           |
| Red Hat Enterprise Linux 3.0 driver             | 7.05.00         | 7.05.00           | 7.00.03               |                  | 7.05.00     | 6.06.50          | 7.05.00              | 7.05.00                 | 7.05.00                |                     | 7.05.00           |
| Red Hat Enterprise Linux 4.0 driver             | 8.00.02         |                   |                       |                  |             |                  |                      |                         | 8.00.02                |                     |                   |
| United Linux 1.0/SuSE SLES 8 driver             | 7.05.00         | 7.05.00           | 7.00.03               |                  | 7.05.00     | 6.06.50          | 7.05.00              | 7.05.00                 | 7.05.00                |                     | 7.05.00           |
| SuSE SLES 9 driver                              | 8.00.02         |                   |                       |                  |             |                  |                      |                         | 8.00.02                |                     |                   |
| BL35p Blade Server (2G)                         |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| FW  | 1.43            | 1.43              |                       |                  |             |                  |                      |                         | 1.43                   |                     | 1.43              |
| Red Hat Advanced Server 2.1 driver              | 7.05.00         | 7.05.00           |                       |                  |             |                  |                      |                         | 7.05.00                |                     | 7.05.00           |
| Red Hat Enterprise Linux 3.0 driver             | 7.05.00         | 7.05.00           |                       |                  |             |                  |                      |                         | 7.05.00                |                     | 7.05.00           |
| Red Hat Enterprise Linux 4.0 driver             | 8.00.02         |                   |                       |                  |             |                  |                      |                         | 8.00.02                |                     |                   |
| United Linux 1.0/SuSE SLES 8 driver             | 7.05.00         | 7.05.00           |                       |                  |             |                  |                      |                         | 7.05.00                |                     | 7.05.00           |
| SuSE SLES 9 driver                              | 8.00.02         |                   |                       |                  |             |                  |                      |                         | 8.00.02                |                     |                   |
| 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>Disk Array Multipath Support<sup>3</sup></b> |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| Secure Path for Linux                           | 3.0Csp1         | 3.0C              | 3.0A                  | 3.0A             |             |                  | 3.0Csp1              | 3.0Csp1                 | 3.0Csp1                |                     |                   |
| QLogic Native Multi-Path for Linux (2.4 kernel) | 7.05.00         | 7.05.00           |                       |                  |             |                  | 7.05.00              | 7.05.00                 | 7.05.00                |                     | 7.05.00           |
| QLogic Native Multi-Path for Linux (2.6 kernel) | 8.00.02         |                   |                       |                  |             |                  |                      |                         | 8.00.02                |                     |                   |

**NOTES:**

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- 2) Please reference your ISV support matrices for supported application and operating system version compatibility
- 3) 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

- 4) EBS is not dependent on specific kernel errata levels. For required/supported kernel errata, refer to your online storage array and backup application support documentation.
- 5) 3rd Party adapters require HP drivers and firmware.

# LINUX (IA-64)<sup>3</sup>

| DAS, DAF, and SAN Support                                   | Current Release | HP Data Protector | Atempo Time Navigator | BakBone NetVault | CA ARCserve | CommVault Galaxy | EMC Legato NetWorker | Syncsort Backup Express | Tivoli Storage Manager | VERITAS Backup Exec | VERITAS NetBackup |
|---|-----------------|-------------------|-----------------------|------------------|-------------|------------------|----------------------|-------------------------|------------------------|---------------------|-------------------|
| <b>Operating Systems<sup>1, 2</sup></b>                     |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| Red Hat Advanced Server 2.1 (64-bit)                        |                 | ✓                 | ✓                     | ✓                |             |                  | ✓                    | ✓                       |                        |                     |                   |
| Red Hat Enterprise Linux 3.0 (64-bit)                       |                 | ✓                 | ✓                     | ✓                |             |                  | ✓                    | ✓                       |                        |                     |                   |
| Red Hat Enterprise Linux 4.0 (64-bit)                       |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| United Linux 1.0/SuSE SLES 8 (64-bit)                       |                 | ✓                 | ✓                     | ✓                |             |                  | ✓                    | ✓                       |                        |                     |                   |
| SuSE SLES 9 (64-bit)  |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| <b>Servers</b>  |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| HP Integrity Superdome and Mid-Range (rx7000-rx8000, IA-64) |                 | ✓                 |                       |                  |             |                  | ✓                    |                         |                        |                     |                   |
| HP Integrity Entry-Level (rx1000-rx6000, IA-64)             |                 | ✓ <sup>5</sup>    | ✓                     | ✓                |             |                  | ✓                    | ✓                       |                        |                     |                   |
| <b>Fibre Host Bus Adapters<sup>4</sup></b>                  |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| <b>A6826A (2G)</b>  |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| EFI   | 1.30            | 1.30              | 1.30                  | 1.30             |             |                  | 1.30                 | 1.30                    |                        |                     |                   |
| Red Hat Advanced Server 2.1 driver                          | 7.05.00         | 7.05.00           | 7.00.03               | 7.00.03          |             |                  | 7.05.00              | 7.05.00                 |                        |                     |                   |
| Red Hat Enterprise Linux 3.0 driver                         | 7.05.00         | 7.05.00           | 7.00.03               | 7.00.03          |             |                  | 7.05.00              | 7.05.00                 |                        |                     |                   |
| Red Hat Enterprise Linux 4.0 driver                         |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| United Linux 1.0/SuSE SLES 8 driver                         | 7.05.00         | 7.05.00           | 7.00.03               | 7.00.03          |             |                  | 7.05.00              | 7.05.00                 |                        |                     |                   |
| SuSE SLES 9 driver  |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| <b>A7538A (2G)</b>  |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| EFI   | 1.42            | 1.42              | 1.42                  | 1.42             |             |                  | 1.42                 | 1.42                    |                        |                     |                   |
| Red Hat Advanced Server 2.1 driver                          | 7.05.00         | 7.05.00           | 7.00.03               | 7.00.03          |             |                  | 7.05.00              | 7.05.00                 |                        |                     |                   |
| Red Hat Enterprise Linux 3.0 driver                         | 7.05.00         | 7.05.00           | 7.00.03               | 7.00.03          |             |                  | 7.05.00              | 7.05.00                 |                        |                     |                   |
| Red Hat Enterprise Linux 4.0 driver                         |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| United Linux 1.0/SuSE SLES 8 driver                         | 7.05.00         | 7.05.00           | 7.00.03               | 7.00.03          |             |                  | 7.05.00              | 7.05.00                 |                        |                     |                   |
| SuSE SLES 9 driver  |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| <b>Disk Array Multipath Support<sup>4</sup></b>             |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| Secure Path for Linux                                       | 3.0C sp1        | 3.0C              | 3.0A                  | 3.0A             |             |                  | 3.0C sp1             | 3.0C sp1                |                        |                     |                   |
| QLogic Native Multi-Path for Linux (2.4 kernel)             | 7.05.00         | 7.05.00           |                       |                  |             |                  | 7.05.00              | 7.05.00                 |                        |                     |                   |
| QLogic Native Multi-Path for Linux (2.6 kernel)             |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |

**NOTES:**

- 1) Other Operating Systems not listed above may be supported within EBS by the respective ISVs as LAN clients
- 2) Please reference your ISV support matrices for supported application and operating system version compatibility
- 3) EBS is not dependent on specific kernel errata levels. For required/supported kernel errata, refer to your online storage array and backup application support documentation.
- 4) 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
- 5) Data Protector 5.0 support in 32-bit emulation mode

## Solaris

| DAS, DAF, and SAN Support                   | Current Release | HP Data Protector     | Atempo Time Navigator | BakBone NetVault | CA ARCserve | CommVault Galaxy    | EMC Legato NetWorker | Syncsort Backup Express | Tivoli Storage Manager | VERITAS Backup Exec | VERITAS NetBackup   |
|---|-----------------|-----------------------|-----------------------|------------------|-------------|---------------------|----------------------|-------------------------|------------------------|---------------------|---------------------|
| <b>Operating Systems <sup>1, 2</sup></b>    |                 |                       |                       |                  |             |                     |                      |                         |                        |                     |                     |
| Solaris 7                                   | ✓               | ✓                     |                       |                  |             | ✓                   | ✓                    |                         | ✓                      |                     | ✓                   |
| Solaris 8                                   | ✓               | ✓                     | ✓                     | ✓                | ✓           | ✓                   | ✓                    | ✓                       | ✓                      |                     | ✓                   |
| Solaris 9                                   | ✓               | ✓                     | ✓                     | ✓                | ✓           | ✓                   | ✓                    | ✓                       | ✓                      |                     | ✓                   |
| <b>Servers</b>                              |                 |                       |                       |                  |             |                     |                      |                         |                        |                     |                     |
| Sun UltraSPARC                              |                 | ✓                     | ✓                     | ✓                | ✓           | ✓                   | ✓                    | ✓                       | ✓                      |                     | ✓                   |
| Sun Sun Fire                                |                 | ✓                     | ✓                     | ✓                | ✓           | ✓                   | ✓                    | ✓                       | ✓                      |                     | ✓                   |
| <b>Fibre Host Bus Adapters <sup>3</sup></b> |                 |                       |                       |                  |             |                     |                      |                         |                        |                     |                     |
| FCA2257P (2G - PCI)                         |                 |                       |                       |                  |             |                     |                      |                         |                        |                     |                     |
| Fcode                                       | 2.00.05         | 2.00.05               |                       |                  | 2.00.05     | 2.00.05             | 2.00.05              | 2.00.05                 | 2.00.05                |                     | 2.00.05             |
| Solaris Driver                              | 4.13.01         | 4.13.01               |                       |                  | 3.26        | 4.11                | 4.13.01              | 4.13.01                 | 4.13.01                |                     | 4.13.01             |
| FCA2257C (1G - PCI)                         |                 |                       |                       |                  |             |                     |                      |                         |                        |                     |                     |
| Fcode                                       | 1.18.5          | 1.18.5                |                       |                  | 1.18.5      | 1.18.5              | 1.18.5               | 1.18.5                  | 1.18.5                 |                     | 1.18.5              |
| Solaris Driver                              | 4.13.01         | 4.13.01               |                       |                  | 3.26        | 4.11                | 4.13.01              | 4.13.01                 | 4.13.01                |                     | 4.13.01             |
| FCA2257S (1G - Sbus)                        |                 |                       |                       |                  |             |                     |                      |                         |                        |                     |                     |
| Fcode                                       | 1.18.3          | 1.18.3                |                       |                  | 1.18.3      | 1.18.3              | 1.18.3               | 1.18.3                  | 1.18.3                 |                     | 1.18.3              |
| Solaris Driver                              | 4.13.01         | 4.13.01               |                       |                  | 3.26        | 4.11                | 4.13.01              | 4.13.01                 | 4.13.01                |                     | 4.13.01             |
| 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 <sup>4,5</sup> | Native                | Native           |             | Native <sup>4</sup> | Native               |                         | Native <sup>4</sup>    |                     | Native <sup>4</sup> |
| SG-XPCI1FC-QF2 (X6767A) (2G - PCI-X)        |                 |                       |                       |                  |             |                     |                      |                         |                        |                     |                     |
| Solaris Driver                              | Native          | Native <sup>4,5</sup> | Native                | Native           |             | Native <sup>4</sup> | Native               |                         | Native <sup>4</sup>    |                     | Native <sup>4</sup> |
| SG-XPCI1FC-JF2 (2G-PCI-X)                   |                 |                       |                       |                  |             |                     |                      |                         |                        |                     |                     |
| Solaris Driver                              | Native          | Native <sup>4</sup>   |                       |                  |             |                     | Native <sup>4</sup>  |                         |                        |                     | Native <sup>4</sup> |
| SG-XPCI2FC-JF2 (2G-PCI-X)                   |                 |                       |                       |                  |             |                     |                      |                         |                        |                     |                     |
| Solaris Driver                              | Native          | Native <sup>4</sup>   |                       |                  |             |                     | Native <sup>4</sup>  |                         |                        |                     | Native <sup>4</sup> |

**NOTES:**

- 1) Other Operating Systems not listed above may be supported within EBS by the respective ISVs as LAN clients.
- 2) Please reference your ISV support matrices for supported application and operating system version compatibility.

- 3) 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.

- 4) Supported with Solaris 9 only.
- 5) Not supported for robot control.

## Solaris - Continued

| DAS, DAF, and SAN Support                        | Current Release | HP Data Protector | Atempo Time Navigator | BakBone NetVault | CA ARCserve | CommVault Galaxy | EMC Legato NetWorker | Syncsort Backup Express | Tivoli Storage Manager | VERITAS Backup Exec | VERITAS NetBackup  |
|--|-----------------|-------------------|-----------------------|------------------|-------------|------------------|----------------------|-------------------------|------------------------|---------------------|--------------------|
| <b>Fibre Host Bus Adapters <sup>1</sup></b>      |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                    |
| FCX-6562 (2G - PCI)                              |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                    |
| Fcode  | 3.9             |                   |                       |                  |             |                  | 3.9                  |                         |                        |                     | 3.9                |
| Solaris Driver                                   | 5.3.1           |                   |                       |                  |             |                  | 5.3.1 <sup>3</sup>   |                         |                        |                     | 5.3.1 <sup>3</sup> |
| FCX2-6562 (2G - PCI)                             |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                    |
| Fcode  | 3.9             |                   |                       |                  |             |                  | 3.9                  |                         |                        |                     | 3.9                |
| Solaris Driver                                   | 5.3.1           |                   |                       |                  |             |                  | 5.3.1 <sup>3</sup>   |                         |                        |                     | 5.3.1 <sup>3</sup> |
| JNI FCE6460 (2G - PCI)                           |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                    |
| Fcode  | 3.9             | 3.9               | 3.9                   | 3.9              | 3.9         | 3.9              | 3.9                  | 3.9                     | 3.9                    |                     | 3.9                |
| Solaris Driver                                   | 5.3.1           | 5.3.1             | 5.3                   | 5.3              | 5.3.1       | 5.3              | 5.3.1                | 5.3.1                   | 5.3.1                  |                     | 5.3.1              |
| JNI FCC6460 (2G - cPCI)                          |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                    |
| Fcode  | 3.9             | 3.9               | 3.9                   | 3.9              | 3.9         | 3.9              | 3.9                  | 3.9                     | 3.9                    |                     | 3.9                |
| Solaris Driver                                   | 5.3.1           | 5.3.1             | 5.3                   | 5.3              | 5.3.1       | 5.3              | 5.3.1                | 5.3.1                   | 5.3.1                  |                     | 5.3.1              |
| 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              |
| Emulex LP10000DC (2G - PCI-X)                    |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                    |
| FW   | 1.90a4          |                   |                       |                  |             |                  | 1.90a4               |                         | 1.90a4                 |                     |                    |
| Solaris Driver                                   | 6.01f           |                   |                       |                  |             |                  | 6.01f <sup>3</sup>   |                         | 6.01f <sup>3</sup>     |                     |                    |
| Emulex LP10000 (2G - PCI-X)                      |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                    |
| FW   | 1.90a4          |                   |                       |                  |             |                  | 1.90a4               |                         | 1.90a4                 |                     |                    |
| Solaris Driver                                   | 6.01f           |                   |                       |                  |             |                  | 6.01f <sup>3</sup>   |                         | 6.01f <sup>3</sup>     |                     |                    |
| Emulex LP9002L (2G - PCI)                        |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                    |
| FW   | 3.92a2          |                   |                       |                  |             |                  | 3.92a2               |                         |                        |                     | 3.92a2             |
| Solaris Driver                                   | 6.01f           |                   |                       |                  |             |                  | 6.01f                |                         |                        |                     | 5.01E <sup>4</sup> |
| <b>Disk Array Multipath Support <sup>1</sup></b> |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                    |
| Secure Path for Solaris                          | 3.0D            | 3.0D              | 3.0C SP1              | 3.0C             | 3.0D        | 3.0C             | 3.0D                 | 3.0D                    | 3.0D                   |                     | 3.0D               |
| Solaris MpXIO <sup>3</sup>                       |                 |                   |                       |                  |             |                  |                      |                         |                        |                     | ✓                  |
| <b>High Availability <sup>2</sup></b>            |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                    |
| VERITAS Cluster Server                           |                 |                   |                       |                  |             |                  |                      |                         |                        |                     | ✓                  |

**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) 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.

3) Supported with Solaris 9 only.  
4) Solaris 8 support only.

# Tru64

| DAS, DAF, and SAN Support             | Current Release | HP Data Protector | Atempo Time Navigator | BakBone NetVault | CA ARCserve | CommVault Galaxy      | EMC Legato NetWorker | Syncsort Backup Express | Tivoli Storage Manager | VERITAS Backup Exec | VERITAS NetBackup |
|---------------------------------------|-----------------|-------------------|-----------------------|------------------|-------------|-----------------------|----------------------|-------------------------|------------------------|---------------------|-------------------|
| <b>Operating Systems 1, 2</b>         |                 |                   |                       |                  |             |                       |                      |                         |                        |                     |                   |
| Tru64 5.1 <sup>9</sup>                | 5.1 pk6         |                   |                       |                  |             |                       | 5.1 pk6              |                         |                        |                     | 5.1 pk6           |
| Tru64 5.1A <sup>9</sup>               | 5.1A pk6        | 5.1A pk6          | 5.1A pk6              | 5.1A pk6         | 5.1A pk6    | 5.1A pk6 <sup>7</sup> | 5.1A pk6             | 5.1A pk6                | 5.1A pk6               |                     | 5.1A pk6          |
| Tru64 5.1B <sup>9</sup>               | 5.1B pk4        | 5.1B pk4          | 5.1B pk3              | 5.1B pk3         |             |                       | 5.1B pk3             | 5.1B pk4                | 5.1B pk4               |                     | 5.1B pk4          |
| <b>Servers</b>                        |                 |                   |                       |                  |             |                       |                      |                         |                        |                     |                   |
| HP AlphaServer                        |                 | ✓                 | ✓                     | ✓                | ✓           | ✓                     | ✓                    | ✓                       | ✓                      |                     | ✓                 |
| <b>Fibre Host Bus Adapters 3, 5</b>   |                 |                   |                       |                  |             |                       |                      |                         |                        |                     |                   |
| FCA2684 and FCA2684 DC (2G - PCI-X)   |                 |                   |                       |                  |             |                       |                      |                         |                        |                     |                   |
| FW                                    | 1.90a4          | 1.90a4            | 1.81a5                |                  |             |                       | 1.90a4               |                         |                        |                     | 1.90a4            |
| Tru64 Driver                          | 2.14            | 2.14              | 2.14                  |                  |             |                       | 2.14                 |                         |                        |                     | 2.14              |
| FCA2354 (2G)                          |                 |                   |                       |                  |             |                       |                      |                         |                        |                     |                   |
| FW                                    | 3.91a1          | 3.91a1            | 3.91a1                | 3.91a1           | 3.91a1      | 3.91a1                | 3.91a1               | 3.91a1                  | 3.91a1                 |                     | 3.91a1            |
| Tru64 Driver                          | 2.14            | 2.14              | 2.14                  | 2.10             | 2.10        | 2.10                  | 2.14                 | 2.14                    | 2.14                   |                     | 2.14              |
| FCA2384 (2G - PCI-X)                  |                 |                   |                       |                  |             |                       |                      |                         |                        |                     |                   |
| FW                                    | 1.90a4          | 1.90a4            |                       |                  |             |                       | 1.90a4               |                         |                        |                     | 1.90a4            |
| Tru64 Driver                          | 2.14            | 2.14              |                       |                  |             |                       | 2.14                 |                         |                        |                     | 2.14              |
| KGP5A -CA (1G)                        |                 |                   |                       |                  |             |                       |                      |                         |                        |                     |                   |
| FW                                    | 3.91a1          | 3.91a1            | 3.91a1                | 3.81a4           | 3.91a1      | 3.81a4                | 3.91a1               | 3.91a1                  | 3.91a1                 |                     | 3.91a1            |
| Tru64 Driver                          | 2.14            | 2.14              | 2.14                  | 1.32a            | 2.10        | 1.32a                 | 2.14                 | 2.14                    | 2.14                   |                     | 2.14              |
| <b>Disk Array Multipath Support 5</b> |                 |                   |                       |                  |             |                       |                      |                         |                        |                     |                   |
| Tru64 Multipath                       | Native          |                   | Native                | Native           | Native      | Native                | Native               | Native                  | Native                 |                     | Native            |
| <b>High Availability 4</b>            |                 |                   |                       |                  |             |                       |                      |                         |                        |                     |                   |
| Tru64 (TruCluster)                    |                 |                   | ✓                     |                  |             |                       | ✓                    | ✓                       |                        |                     | ✓                 |
| <b>OVMS</b>                           |                 |                   |                       |                  |             |                       |                      |                         |                        |                     |                   |
| <b>Operating Systems 1, 2</b>         |                 |                   |                       |                  |             |                       |                      |                         |                        |                     |                   |
| OpenVMS 7.3-1 <sup>6, 8, 9, 10</sup>  | ✓               | ✓                 |                       |                  |             |                       |                      |                         |                        |                     |                   |
| OpenVMS 7.3-2 <sup>6, 9, 10</sup>     | ✓               | ✓                 |                       |                  |             |                       |                      |                         |                        |                     |                   |
| <b>Servers</b>                        |                 |                   |                       |                  |             |                       |                      |                         |                        |                     |                   |
| HP AlphaServer                        |                 | ✓                 |                       |                  |             |                       |                      |                         |                        |                     |                   |
| <b>Fibre Host Bus Adapters 5</b>      |                 |                   |                       |                  |             |                       |                      |                         |                        |                     |                   |
| FCA2384 (2G - PCI-X)                  |                 |                   |                       |                  |             |                       |                      |                         |                        |                     |                   |
| FW                                    | 1.90a4          | 1.90a4            |                       |                  |             |                       |                      |                         |                        |                     |                   |
| Driver                                | Native          | Native            |                       |                  |             |                       |                      |                         |                        |                     |                   |

**NOTES:**

- 1) Other Operating Systems not listed above may be supported within EBS by the respective ISVs as LAN clients
- 2) Please reference your ISV support matrices for supported application and operating system version compatibility
- 3) Driver is included in Early Release Patch (ERP) kits for Tru64, problem description number BU040324\_EW01.
- 4) 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.

- 5) 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
- 6) 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)

- 7) Support is with BEB v10.5 only
- 8) Supported only with the original version 7.3-1 mk driver (SYS\$MKDRIVER.EXE)
- 9) Ultrium 230 (LTO) not supported
- 10) OpenVMS supported in switched fabric configurations only.

# AIX

| DAS, DAF, and SAN Support                        | Current Release | HP Data Protector   | Atempo Time Navigator | BakBone NetVault | CA ARCserve | CommVault Galaxy      | EMC Legato NetWorker | Syncsort Backup Express | Tivoli Storage Manager | VERITAS Backup Exec | VERITAS NetBackup   |
|--|-----------------|---------------------|-----------------------|------------------|-------------|-----------------------|----------------------|-------------------------|------------------------|---------------------|---------------------|
| <b>Operating Systems</b> <sup>1, 2</sup>         |                 |                     |                       |                  |             |                       |                      |                         |                        |                     |                     |
| AIX 4.3.3  |                 | ✓ <sup>3, 6</sup>   |                       | ✓                |             | ✓                     | ✓                    |                         | ✓                      |                     | ✓                   |
| AIX 5.1L   |                 | ✓ <sup>3, 6</sup>   | ✓                     |                  | ✓           | ✓                     | ✓ <sup>5</sup>       | ✓                       | ✓                      |                     | ✓                   |
| AIX 5.2  |                 | ✓ <sup>3, 6</sup>   | ✓                     | ✓                | ✓           | ✓                     | ✓                    | ✓                       | ✓                      |                     | ✓                   |
| AIX 5.3  |                 |                     |                       |                  |             |                       |                      |                         | ✓                      |                     |                     |
| <b>Servers</b>                                   |                 |                     |                       |                  |             |                       |                      |                         |                        |                     |                     |
| IBM RS/6000                                      |                 | ✓                   | ✓                     | ✓                | ✓           | ✓                     | ✓                    | ✓                       | ✓                      |                     | ✓                   |
| <b>Fibre Host Bus Adapters</b> <sup>3, 4</sup>   |                 |                     |                       |                  |             |                       |                      |                         |                        |                     |                     |
| A7539A (Cambex PC2000) (2G)                      |                 |                     |                       |                  |             |                       |                      |                         |                        |                     |                     |
| AIX Driver w/o Secure Path                       | 1.5.26.0        | 1.5.26.0            | 1.5.26.0              | 1.5.22.0         | 1.5.26.0    | 1.5.22.0 <sup>7</sup> | 1.5.26.0             | 1.5.26.0                |                        |                     | 1.5.26.0            |
| AIX Driver w/ Secure Path                        | 1.5.25.3        | 1.5.25.3            | 1.5.25.3              | 1.5.25.3         | 1.5.25.3    | 1.5.25.3 <sup>7</sup> | 1.5.25.3             | 1.5.25.3                |                        |                     | 1.5.25.3            |
| IBM 6228 (2G)                                    |                 |                     |                       |                  |             |                       |                      |                         |                        |                     |                     |
| AIX Driver                                       | Native          | Native              | Native                |                  | Native      | Native                | Native               | Native                  | Native                 |                     | Native              |
| IBM 6239 (2G)                                    |                 |                     |                       |                  |             |                       |                      |                         |                        |                     |                     |
| AIX Driver                                       | Native          | Native <sup>7</sup> |                       |                  |             |                       | Native <sup>7</sup>  |                         | Native <sup>8</sup>    |                     | Native <sup>7</sup> |
| IBM 5716 (2G)                                    |                 |                     |                       |                  |             |                       |                      |                         |                        |                     |                     |
| AIX Driver                                       | Native          |                     |                       |                  |             |                       |                      |                         | Native <sup>8</sup>    |                     |                     |
| Cambex PC1000 (1G)                               |                 |                     |                       |                  |             |                       |                      |                         |                        |                     |                     |
| AIX Driver w/o Secure Path                       | 1.5.26.0        | 1.5.19              |                       | 1.5.11.1         |             | 1.5.22.0              | 1.5.26.0             | 1.5.22.0                | 1.5.26.0               |                     | 1.5.26.0            |
| AIX Driver w/ Secure Path                        | 1.5.25.3        | 1.5.25.3            |                       |                  |             | 1.5.25.3              | 1.5.25.3             | 1.5.25.3                | 1.5.25.3               |                     | 1.5.25.3            |
| <b>Disk Array Multipath Support</b> <sup>4</sup> |                 |                     |                       |                  |             |                       |                      |                         |                        |                     |                     |
| Secure Path for AIX                              | 2.0D SP2        | 2.0D SP2            | 2.0D SP2              | 2.0D SP2         | 2.0D SP2    | 2.0D SP2              | 2.0D SP2             | 2.0D SP2                | 2.0D SP2               |                     | 2.0D SP2            |

**NOTES:**

- 1) Other Operating Systems not listed above may be supported within EBS by the respective ISVs as LAN clients
- 2) Please reference your ISV support matrices for supported application and operating system version compatibility
- 3) Robot control is not supported

- 4) 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
- 5) DLT8000 products not supported
- 6) AIX devices must be manually configured.
- 7) Supported with AIX 5.2 only.

- 8) Supported with AIX 5.2 and 5.3 only.



# NetWare

| DAS, DAF, and SAN Support                             | Current Release | HP Data Protector  | Atempo Time Navigator | BakBone NetVault | CA ARCserve          | CommVault Galaxy | EMC Legato NetWorker | Syncsort Backup Express | Tivoli Storage Manager | VERITAS Backup Exec | VERITAS NetBackup |
|---|-----------------|--------------------|-----------------------|------------------|----------------------|------------------|----------------------|-------------------------|------------------------|---------------------|-------------------|
| <b>Operating Systems <sup>1, 2</sup></b>              |                 |                    |                       |                  |                      |                  |                      |                         |                        |                     |                   |
| NetWare 5.1   | 5.1 sp7         | 5.1 sp7            |                       | 5.1 sp5          | 5.1 sp7 <sup>3</sup> |                  |                      | 5.1 sp6                 |                        | 5.1 sp7             |                   |
| NetWare 6.0   | 6.0 sp5         | 6.0 sp5            |                       |                  | 6.0 sp5 <sup>3</sup> | 6.0 sp4          |                      | 6.0 sp5                 |                        | 6.0 sp5             |                   |
| NetWare 6.5   | 6.5 sp2         | 6.5 sp2            |                       |                  | 6.5 sp2 <sup>3</sup> | 6.5 sp1          |                      | 6.5 sp2                 |                        | 6.5 sp2             |                   |
| <b>Servers</b>  |                 |                    |                       |                  |                      |                  |                      |                         |                        |                     |                   |
| HP ProLiant <sup>5</sup>                              |                 | ✓                  |                       | ✓                | ✓                    | ✓                |                      | ✓                       |                        | ✓                   |                   |
| HP ProLiant Blade Server <sup>5</sup>                 |                 | ✓                  |                       |                  | ✓                    | ✓                |                      | ✓                       |                        | ✓                   |                   |
| HP NetServer  |                 | ✓                  |                       | ✓                | ✓                    | ✓                |                      | ✓                       |                        | ✓                   |                   |
| Third Party X86                                       |                 | ✓                  |                       | ✓                | ✓                    | ✓                |                      | ✓                       |                        | ✓                   |                   |
| <b>Fibre Host Bus Adapters <sup>3, 5</sup></b>        |                 |                    |                       |                  |                      |                  |                      |                         |                        |                     |                   |
| FCA2214 (FCA2210) (2G)                                |                 |                    |                       |                  |                      |                  |                      |                         |                        |                     |                   |
| FW  | 1.45            | 1.45               |                       |                  | 1.45                 | 1.34             |                      | 1.45                    |                        | 1.45                |                   |
| NetWare Driver  | 6.80f           | 6.80f <sup>9</sup> |                       |                  | 6.51b                | 6.51b            |                      | 6.80f                   |                        | 6.80f               |                   |
| 64-bit / 66 MHz PCI to FC HBA (1G) <sup>6, 7, 8</sup> |                 |                    |                       |                  |                      |                  |                      |                         |                        |                     |                   |
| NetWare Driver  | 2.52            | 2.52 <sup>9</sup>  |                       | 2.52             |                      |                  |                      | 2.52                    |                        | 2.52                |                   |
| 32-bit / 33 MHz HBA (1G) <sup>6, 7, 8</sup>           |                 |                    |                       |                  |                      |                  |                      |                         |                        |                     |                   |
| NetWare Driver  | 2.52            | 2.52 <sup>9</sup>  |                       |                  |                      |                  |                      | 2.52                    |                        | 2.52                |                   |
| <b>Disk Array Multipath Support <sup>5</sup></b>      |                 |                    |                       |                  |                      |                  |                      |                         |                        |                     |                   |
| Secure Path for NetWare <sup>10</sup>                 | 3.0C SP2        | 3.0C SP2           |                       |                  | 3.0C SP2             | 3.0C SP2         |                      | 3.0C SP2                |                        | 3.0C SP2            |                   |
| <b>High Availability <sup>4</sup></b>                 |                 |                    |                       |                  |                      |                  |                      |                         |                        |                     |                   |
| NetWare 5.1 (NWCS)                                    |                 |                    |                       |                  |                      |                  |                      |                         |                        | ✓                   |                   |
| NetWare 6.0 (NWCS)                                    |                 |                    |                       |                  |                      | ✓                |                      | ✓                       |                        | ✓                   |                   |
| NetWare 6.5 (NWCS)                                    |                 |                    |                       |                  |                      | ✓                |                      | ✓                       |                        | ✓                   |                   |

**NOTES:**

- 1) Other Operating Systems not listed above may be supported within EBS by the respective ISVs as LAN clients
- 2) Please reference your ISV support matrices for supported application and operating system version compatibility
- 3) NetWare is supported with ESL libraries in a homogeneous environment only.
- 4) 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.

- 5) 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
- 6) COMPAQ HBAs
- 7) NetWare 5.1 and 6.0 support only.
- 8) Heterogeneous Windows and NetWare configurations require FCA-2210 HBA for access to shared tape.

- 9) Support is limited to single path configurations only
- 10) 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.

## RAID Arrays

| SAN Support   | HP Data Protector | Atempo Time Navigator | BakBone NetVault | CA ARCserve    | CommVault Galaxy | EMC Legato NetWorker | Syncsort Backup Express | Tivoli Storage Manager | VERITAS Backup Exec | VERITAS NetBackup |
|---|-------------------|-----------------------|------------------|----------------|------------------|----------------------|-------------------------|------------------------|---------------------|-------------------|
| <b>RAID Arrays</b>                                  |                   |                       |                  |                |                  |                      |                         |                        |                     |                   |
| XP 12000 <sup>1</sup>                               | ✓                 | ✓                     | ✓                | ✓              | ✓                | ✓                    | ✓                       | ✓                      | ✓                   | ✓                 |
| XP 1024/128 <sup>1</sup>                            | ✓                 | ✓                     | ✓                | ✓              | ✓                | ✓                    | ✓                       | ✓                      | ✓                   | ✓                 |
| XP 48/512 <sup>1</sup>                              | ✓                 | ✓                     | ✓                | ✓              | ✓                | ✓                    | ✓                       | ✓                      | ✓                   | ✓                 |
| Zero Downtime with XP                               | ✓                 |                       |                  |                |                  |                      |                         |                        |                     |                   |
| Instant Recovery with XP                            | ✓                 |                       |                  |                |                  |                      |                         |                        |                     |                   |
| Enterprise Virtual Array<br>EVA 8000 <sup>1</sup>   | ✓                 |                       |                  | ✓              |                  | ✓                    |                         | ✓                      | ✓                   | ✓                 |
| Enterprise Virtual Array<br>EVA 6000 <sup>1</sup>   | ✓                 |                       |                  | ✓              |                  | ✓                    |                         | ✓                      | ✓                   | ✓                 |
| Enterprise Virtual Array<br>EVA 4000 <sup>1</sup>   | ✓                 |                       |                  | ✓              |                  | ✓                    |                         | ✓                      | ✓                   | ✓                 |
| Enterprise Virtual Array<br>EVA 5000 <sup>1,3</sup> | ✓                 | ✓                     | ✓                | ✓              | ✓                | ✓                    | ✓                       | ✓                      | ✓                   | ✓                 |
| Enterprise Virtual Array<br>EVA 3000 <sup>1,3</sup> | ✓                 | ✓                     | ✓                | ✓              | ✓                | ✓                    | ✓                       | ✓                      | ✓                   | ✓                 |
| VA 7410/7110 <sup>1,6</sup>                         | ✓                 |                       |                  | ✓              |                  | ✓                    |                         |                        | ✓                   | ✓                 |
| VA 7400/7100 <sup>1,6</sup>                         | ✓                 |                       |                  | ✓              |                  | ✓                    |                         |                        | ✓                   | ✓                 |
| EMA 16000 <sup>1</sup>                              | ✓                 | ✓                     | ✓                | ✓              | ✓                | ✓                    | ✓                       | ✓                      | ✓                   | ✓                 |
| EMA 12000/8000 <sup>1</sup>                         | ✓                 | ✓                     | ✓                | ✓              | ✓                | ✓                    | ✓                       | ✓                      | ✓                   | ✓                 |
| MSA1500 <sup>1</sup>                                | ✓                 |                       |                  | ✓              |                  | ✓                    | ✓                       | ✓                      | ✓                   | ✓                 |
| MSA1000 Small Business<br>SAN Kit                   | ✓ <sup>4</sup>    |                       |                  | ✓ <sup>5</sup> |                  |                      |                         |                        | ✓ <sup>5</sup>      |                   |
| MSA1000 <sup>2</sup>                                | ✓                 | ✓                     | ✓                | ✓              | ✓                | ✓                    | ✓                       | ✓                      | ✓                   | ✓                 |

**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) Supported with Fibre Channel and FATA disk drives.

- 4) LINUX and Windows support only
- 5) Windows support only
- 6) VA7xxx arrays require separate HBA's for disk and tape.

## Infrastructure

| SAN Support  | Current Release | e2400-FC 2G Interface Controller | E2400-160 FC Interface Controller | NSR E1200-160 | NSR E2400 | NSR E1200 | NSR M2402 | NSR N1200 |
|--|-----------------|----------------------------------|-----------------------------------|---------------|-----------|-----------|-----------|-----------|
| <b>SAN Switches<sup>1</sup></b>                        |                 |                                  |                                   |               |           |           |           |           |
| Director Switch 2/140                                  | 07.00.00-84     | ✓                                | ✓                                 | ✓             | ✓         | ✓         | ✓         | ✓         |
| Director Switch 2/64                                   | 07.00.00-84     | ✓                                | ✓                                 | ✓             | ✓         | ✓         | ✓         | ✓         |
| Edge Switch 2/32                                       | 07.00.00-84     | ✓                                | ✓                                 | ✓             | ✓         | ✓         | ✓         | ✓         |
| Edge Switch 2/24                                       | 07.00.00-84     | ✓                                | ✓                                 | ✓             | ✓         | ✓         | ✓         | ✓         |
| Edge Switch 2/16                                       | 07.00.00-84     | ✓                                | ✓                                 | ✓             | ✓         | ✓         | ✓         | ✓         |
| Edge Switch 2/12                                       | 07.00.00-84     | ✓                                | ✓                                 | ✓             | ✓         | ✓         | ✓         | ✓         |
| SAN Director 2/128                                     | 4.4.0c          | ✓                                | ✓                                 | ✓             | ✓         | ✓         | ✓         | ✓         |
| Core Switch 2/64                                       | 4.4.0c          | ✓                                | ✓                                 | ✓             | ✓         | ✓         | ✓         | ✓         |
| SAN Switch 4/32  | 4.4.0c          | ✓                                | ✓                                 | ✓             | ✓         | ✓         | ✓         | ✓         |
| SAN Switch 2/32  | 4.4.0c          | ✓                                | ✓                                 | ✓             | ✓         | ✓         | ✓         | ✓         |
| SAN Switch 2/16N                                       | 4.4.0c          | ✓                                | ✓                                 | ✓             | ✓         | ✓         | ✓         | ✓         |
| SAN Switch 2/16V                                       | 4.4.0c          | ✓                                | ✓                                 | ✓             | ✓         | ✓         | ✓         | ✓         |
| SAN Switch 2/16  | 3.2.0           | ✓                                | ✓                                 | ✓             | ✓         | ✓         | ✓         | ✓         |
| SAN Switch 2/8V  | 4.4.0c          | ✓                                | ✓                                 | ✓             | ✓         | ✓         | ✓         | ✓         |
| SAN Switch 2/8   | 3.2.0           | ✓                                | ✓                                 | ✓             | ✓         | ✓         | ✓         | ✓         |
| SAN Switch 2/16-EL                                     | 3.2.0           | ✓                                | ✓                                 | ✓             | ✓         | ✓         | ✓         | ✓         |
| SAN Switch 2/8-EL                                      | 3.2.0           | ✓                                | ✓                                 | ✓             | ✓         | ✓         | ✓         | ✓         |
| SAN Switch 16  | 2.6.2c          | ✓                                | ✓                                 | ✓             | ✓         | ✓         | ✓         | ✓         |
| SAN Switch 8   | 2.6.2c          | ✓                                | ✓                                 | ✓             | ✓         | ✓         | ✓         | ✓         |
| SAN Switch 16EL  | 2.6.2c          | ✓                                | ✓                                 | ✓             | ✓         | ✓         | ✓         | ✓         |
| SAN Switch 8EL   | 2.6.2c          | ✓                                | ✓                                 | ✓             | ✓         | ✓         | ✓         | ✓         |
| FC Switch 16B  | 3.2.0           | ✓                                | ✓                                 | ✓             | ✓         | ✓         | ✓         | ✓         |
| FC Switch 8B   | 3.2.0           | ✓                                | ✓                                 | ✓             | ✓         | ✓         | ✓         | ✓         |
| MSA SAN Switch 2/8                                     | 3.2.0           | ✓                                | ✓                                 | ✓             | ✓         | ✓         | ✓         | ✓         |
| Cisco MDS 9506   | 2.1.1a          | ✓                                | ✓                                 | ✓             | ✓         | ✓         | ✓         | ✓         |
| Cisco MDS 9509   | 2.1.1a          | ✓                                | ✓                                 | ✓             | ✓         | ✓         | ✓         | ✓         |
| Cisco MDS 9216   | 2.1.1a          | ✓                                | ✓                                 | ✓             | ✓         | ✓         | ✓         | ✓         |
| Cisco MDS 9120   | 2.1.1a          | ✓                                | ✓                                 | ✓             | ✓         | ✓         | ✓         | ✓         |
| Cisco MDS 9140   | 2.1.1a          | ✓                                | ✓                                 | ✓             | ✓         | ✓         | ✓         | ✓         |
| Cisco MDS 9216a  | 2.1.1a          | ✓                                | ✓                                 | ✓             | ✓         | ✓         | ✓         | ✓         |
| Cisco MDS 9216i  | 2.1.1a          | ✓                                | ✓                                 | ✓             | ✓         | ✓         | ✓         | ✓         |
| <b>Multi-Protocol Routers and Gateways<sup>1</sup></b> |                 |                                  |                                   |               |           |           |           |           |
| Multi-Protocol Router <sup>2,3</sup>                   | 7.3.0b          | ✓                                | ✓                                 | ✓             | ✓         | ✓         | ✓         | ✓         |
| IP Storage Router 2122-2 <sup>4</sup>                  | 3.4.5           | ✓                                | ✓                                 | ✓             | ✓         | ✓         | ✓         | ✓         |

**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) Supported with all backup application/operating system combinations.

3) Supported as a SAN-to-SAN interconnect only. Direct connection of libraries or hosts to the MP Router is not supported.

4) Supported for FC-IP SAN-to-SAN interconnect only.

## ProLiant Storage Servers (NAS)

| DAS, DAF, and SAN Support | HP Data Protector | Atempo Time Navigator | BakBone NetVault | CA ARCserve | CommVault Galaxy | EMC Legato NetWorker | Syncsort Backup Express | Tivoli Storage Manager | VERITAS Backup Exec | VERITAS NetBackup |
|---------------------------|-------------------|-----------------------|------------------|-------------|------------------|----------------------|-------------------------|------------------------|---------------------|-------------------|
| DL585 Storage Server      | ✓                 |                       |                  |             |                  |                      |                         |                        | ✓                   |                   |
| DL380G4 Storage Server    | ✓                 | ✓                     | ✓                | ✓           | ✓                | ✓                    | ✓                       |                        | ✓                   | ✓ <sup>1</sup>    |
| ML370G4 Storage Server    | ✓                 |                       |                  | ✓           |                  |                      | ✓                       |                        | ✓                   |                   |
| ML350G4 Storage Server    | ✓                 |                       |                  | ✓           |                  |                      | ✓                       |                        | ✓                   |                   |
| ML110G2 Storage Server    | ✓                 |                       |                  |             |                  |                      | ✓                       |                        | ✓                   |                   |
| NAS 9000s                 | ✓                 | ✓                     | ✓                | ✓           | ✓                | ✓                    | ✓                       |                        | ✓                   | ✓ <sup>1</sup>    |
| NAS 4000s                 | ✓                 | ✓                     | ✓                | ✓           | ✓                | ✓                    | ✓                       |                        | ✓                   | ✓ <sup>1</sup>    |
| NAS 8000                  | ✓                 |                       |                  |             |                  |                      | ✓                       |                        |                     |                   |
| NAS e7000                 | ✓                 | ✓                     | ✓                | ✓           | ✓                | ✓                    | ✓ <sup>2</sup>          | ✓                      | ✓                   | ✓                 |
| NAS 1500s                 | ✓                 |                       |                  | ✓           |                  |                      | ✓                       |                        | ✓                   |                   |
| NAS 500s                  | ✓                 |                       |                  | ✓           |                  |                      | ✓                       |                        | ✓                   |                   |
| NAS 2000s                 | ✓                 | ✓                     | ✓                | ✓           |                  |                      | ✓                       |                        | ✓                   |                   |
| NAS 1200s                 | ✓                 | ✓                     | ✓                | ✓           |                  |                      | ✓                       |                        | ✓                   |                   |
| NAS B3000                 | ✓                 | ✓                     | ✓                | ✓           | ✓                | ✓                    | ✓                       | ✓                      | ✓                   | ✓                 |
| NAS B2000                 | ✓                 | ✓                     | ✓                | ✓           | ✓                | ✓                    | ✓                       | ✓                      | ✓                   | ✓                 |

**NOTES:**

- 1) Requires NetBackup 5.0 MP2 or later.
- 2) Supported with Backup Express v2.1.x and earlier

## SCSI Host Bus Adapters

### HP Branded 32-bit SCSI Host Bus Adapters <sup>2, 3</sup>

| Windows   | HP-UX  | LINUX   | Tru64   | NetWare   |
|---|--|---|---|---|
| 268351-B21<br>Ultra320, LVD, Dual Channel, VHDCI                | A6829A<br>Ultra160, LVD, Dual Channel, VHDCI               | 268351-B21<br>Ultra320, LVD, Dual Channel, VHDCI                | 3X-KZPCA-AA<br>Ultra80, LVD, Dual Channel, HD68 | 268351-B21<br>Ultra320, LVD, Dual Channel, VHDCI  |
| 284688-B21<br>Ultra160, LVD, Dual Channel, VHDCI                | A6828A<br>Ultra160, LVD, Single Channel, VHDCI             | 374654-B21 <sup>4</sup><br>Ultra320, LVD, Single Channel, VHDCI |   | 284688-B21<br>Ultra160, LVD, Dual Channel, VHDCI  |
| C7474A<br>Ultra160, LVD, Single Channel, VHDCI                  | A5149A<br>Ultra80, LVD, Single Channel, VHDCI              | 284688-B21<br>Ultra160, LVD, Dual Channel, VHDCI                |   | 129803-B21<br>Ultra160, LVD, Dual Channel, VHDCI  |
| 154457-B21<br>Ultra160, LVD, Single Channel, HD68               | A5150A<br>Ultra80, LVD, Dual Channel, VHDCI                | C7474A<br>Ultra160, LVD, Single Channel, VHDCI                  |   | 154457-B21<br>Ultra160, LVD, Single Channel, HD68 |
| 129803-B21<br>Ultra160, LVD, Dual Channel, VHDCI                | A4974A <sup>1</sup><br>Ultra, SE, Single Channel, HD68     | 154457-B21<br>Ultra160, LVD, Single Channel, HD68               |   | C7474A<br>Ultra160, LVD, Single Channel, VHDCI    |
| 348757-B21<br>Ultra80, LVD, Dual Channel, VHDCI                 | A4999A <sup>1</sup><br>Ultra80, LVD, Single Channel, VHDCI | 129803-B21<br>Ultra160, LVD, Dual Channel, VHDCI                |   | 348757-B21<br>Ultra80, LVD, Dual Channel, VHDCI   |
| 374654-B21 <sup>4</sup><br>Ultra320, LVD, Single Channel, VHDCI | A5838A<br>Ultra80, LVD, Dual Channel, VHDCI                |   |   |   |
|   | A2679A<br>Ultra80, LVD, Single Channel, HD68               |   |   |   |

**NOTES:**

- 1) Supported on HP-UX Workstations only
- 2) Refer to the Server QuickSpecs to determine which SCSI HBAs are supported
- 3) Third party X86 servers supported with HP-Branded adapters only.
- 4) Autoloader support only

**SCSI Host Bus Adapters - Continued**

| HP Branded Integrity SCSI Host Bus Adapters, IA-64 64-bit <sup>1</sup> |  |  |
|--|--|--|
| Windows  | HP-UX  | LINUX  |
| A7059A<br>Ultra160, LVD, Single Channel, VHDCI                         | A7173A<br>Ultra320, LVD, Dual Channel, VHDCI   | A7059A<br>Ultra160, LVD, Single Channel, VHDCI |
| A7060A<br>Ultra160, LVD, Dual Channel, VHDCI                           | A6829A<br>Ultra160, LVD, Dual Channel, VHDCI   | A7060A<br>Ultra160, LVD, Dual Channel, VHDCI   |
| A7173A<br>Ultra 320, LVD, Dual Channel, VHDCI                          | A6828A<br>Ultra160, LVD, Single Channel, VHDCI | A7173A<br>Ultra 320, LVD, Dual Channel, VHDCI  |
|  | A5149A<br>Ultra80, LVD, Single Channel, VHDCI  |  |
|  | A5150A<br>Ultra80, LVD, Dual Channel, VHDCI    |  |
|  | A5838A<br>Ultra80, LVD, Dual Channel, VHDCI    |  |
|  | AB290A<br>Ultra 320, LVD, Dual Channel, VHDCI  |  |

**NOTES:**

1) Refer to the Server QuickSpecs to determine which SCSI HBAs are supported

**SCSI Host Bus Adapters - Continued**

| <b>Third Party SCSI HBA and Integrated SCSI Controllers<sup>2,3</sup></b>       |  |  |
|---|--|--|
| <b>Windows</b>  | <b>Linux</b>                                   | <b>NetWare</b>                                 |
| Adaptec 29320<br>Ultra320, LVD, Single Channel                                  | Adaptec 29320<br>Ultra320, LVD, Single Channel | Adaptec 29320<br>Ultra320, LVD, Single Channel |
| Adaptec 29160<br>Ultra160, LVD, Single Channel                                  | Adaptec 29160<br>Ultra160, LVD, Single Channel | Adaptec 29160<br>Ultra160, LVD, Single Channel |
| Adaptec 39160<br>Ultra160, LVD, Dual Channel                                    | Adaptec 39160<br>Ultra160, LVD, Dual Channel   | Adaptec 39160<br>Ultra160, LVD, Dual Channel   |
| Symbios/LSI 22915<br>Ultra160, LVD, Dual Channel                                |  |  |
| Symbios/LSI 22903<br>Ultra160, LVD, Dual Channel                                |  |  |
| Symbios/LSI 8951<br>Ultra80, LVD, Single Channel                                |  |  |
| Integrated Smart Array 5i/5i Plus <sup>1</sup><br>Ultra160, LVD, Single Channel |  |  |
| ProLiant Integrated SCSI<br>Ultra160, LVD, Single and Dual Channel              |  |  |

**NOTES:**

- 1) Supported only with Enterprise and Mid-Range Libraries, SSL1016 Ultrium 460, 1/8 Ultrium 460, 1/8 SDLT320, and 1/8 Ultrium 230 tape autoloaders. Does not support devices with multiple LUNs behind a single SCSI ID.
- 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.
- 3) Third Party SCSI HBA support is for HP servers only

## Storage Software

|                            | Current Release | HP Data Protector | Atempo Time Navigator | BakBone NetVault | CA ARCserve | CommVault Galaxy | EMC Legato NetWorker | Syncsort Backup Express | Tivoli Storage Manager | VERITAS Backup Exec | VERITAS NetBackup |
|----------------------------|-----------------|-------------------|-----------------------|------------------|-------------|------------------|----------------------|-------------------------|------------------------|---------------------|-------------------|
| <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                     | 3.2             | 3.2               |                       |                  | 3.2         | 3.1              | 3.2                  | 3.1                     | 3.2                    | 3.2                 | 3.2               |
| Zero Downtime with XP      |                 | ✓                 |                       |                  |             |                  |                      |                         |                        |                     |                   |
| Instant Recovery with XP   |                 | ✓                 |                       |                  |             |                  |                      |                         |                        |                     |                   |
| <b>StorageWorks</b>        |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| Command View for ESL       |                 | ✓                 | ✓                     | ✓                | ✓           | ✓                | ✓                    | ✓                       | ✓                      | ✓                   | ✓                 |
| Continuous Access          |                 |                   |                       |                  | ✓           |                  | ✓                    |                         | ✓                      | ✓                   | ✓                 |
| Business Copy EVA          |                 | ✓                 | ✓                     |                  | ✓           | ✓                | ✓                    | ✓                       | ✓                      | ✓                   | ✓                 |
| Business Copy XP           |                 | ✓                 |                       |                  |             |                  |                      |                         |                        |                     |                   |
| <b>Tools and Utilities</b> |                 |                   |                       |                  |             |                  |                      |                         |                        |                     |                   |
| Smart Start                | 7.20            | 7.20              | 7.00                  | 7.00             | 7.10        | 7.00             | 7.20                 | 7.20                    | 7.20                   | 7.20                | 7.20              |
| Insight Manager            | 7.20            | 7.20              | 7.00                  | 7.00             | 7.20        | 7.00             | 7.20                 | 7.20                    | 7.20                   | 7.20                | 7.20              |



**Backup Application Details**

| Name   | Version                           | Date Last Tested | Recommended Tape Driver                                 | Application Information/Support  |
|--|-----------------------------------|------------------|---|--|
| HP OpenView Storage Data Protector                   | 5.5, 5.1, and 5.0                 | Current          | Use Native Drivers                                      | <a href="#">Data Protector Product Information</a><br><a href="#">Data Protector Device Support Matrix</a> |
| Atempo Time Navigator                                | 3.7.0.3                           | May-04           |   | <a href="http://www.atempo.com">www.atempo.com</a>   |
| BakBone NetVault                                     | 7.1 & 7.3                         | Mar-04           |   | <a href="http://www.bakbone.com">www.bakbone.com</a>   |
| Computer Associates<br>BrightStor ARCserve (Windows) | 11.1, 11.0, and 9.0               | Current          | CABA Driver for Windows                                 | <a href="http://support.ca.com">support.ca.com</a>   |
| Computer Associates<br>BrightStor ARCserve (NetWare) | 11.1 and 9.0                      | Current          | HP Driver for Netware                                   | <a href="http://support.ca.com">support.ca.com</a>   |
| Computer Associates<br>BrightStor ARCserve (Linux)   | 11.1 and 9.0                      | Current          |   | <a href="http://support.ca.com/">support.ca.com/</a>   |
| Computer Associates<br>BrightStor ARCserve (UNIX)    | 11.1 and BEB 10.5                 | Oct-04           |   | <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>   |
| EMC Legato NetWorker                                 | 7.2, 7.1.x, and 6.1.4             | Current          | HP Driver for Windows                                   | <a href="http://www.legato.com">www.legato.com</a>   |
| Syncsort Backup Express                              | 2.3                               | Mar-05           | Use Native Drivers                                      | <a href="http://www.syncsort.com">www.syncsort.com</a>   |
| Tivoli Storage Manager                               | 5.3.x, 5.2.4.x                    | Current          | Tivoli Driver for Windows                               | <a href="http://www.tivoli.com">www.tivoli.com</a>   |
| VERITAS Backup Exec for Windows Servers              | 10.0.5484                         | Current          | BE Driver for Windows                                   | <a href="http://www.veritas.com">www.veritas.com</a>   |
| VERITAS Backup Exec for NetWare                      | 9.1.1152                          | Current          | BE Driver for Netware                                   | <a href="http://www.veritas.com">www.veritas.com</a>   |
| VERITAS NetBackup Windows                            | 5.1 MP1, 5.0 MP4, and 4.5 FP8/MP8 | Current          | HP Driver for Windows or NBU Tape<br>Driver for Windows | <a href="http://www.veritas.com">www.veritas.com</a>   |
| VERITAS NetBackup UNIX                               | 5.1 MP1, 5.0 MP4, and 4.5 FP8/MP8 | 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.

## Legacy Device Support

| 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  |
| ESL 9326 DX               | March 2005   |
| ESL 9198 DLX              | March 2005   |
| MSL 5026 DLX              | March 2005   |
| SSL 2020 TL               | March 2005   |
| DLT 40/80                 | March 2005   |
|                           |  |
|                           |  |
|                           |  |

1) EBS Compatibility Matrices from the last year can be found on <http://www.hp.com/go/ebs>. For matrices older than one year, consult your HP Account Representative.

## Useful Links

| Product Family                            | URL   |
|---|---|
| EBS                                       | <a href="http://www.hp.com/go/ebs">http://www.hp.com/go/ebs</a>   |
| EBS Design Guide                          | <a href="http://h200001.www2.hp.com/bc/docs/support/SupportManual/c00190922/c00190922.pdf">http://h200001.www2.hp.com/bc/docs/support/SupportManual/c00190922/c00190922.pdf</a> |
| EBS 1-2-3                                 | <a href="http://h18000.www1.hp.com/products/storageworks/ebs/ebs123.html">http://h18000.www1.hp.com/products/storageworks/ebs/ebs123.html</a>                                   |
| Tape Systems                              | <a href="http://www.hp.com/go/tape">http://www.hp.com/go/tape</a>   |
| Interconnects                             | <a href="http://h18006.www1.hp.com/storage/saninfrastructure.html">http://h18006.www1.hp.com/storage/saninfrastructure.html</a>   |
| RAID Arrays                               | <a href="http://h18006.www1.hp.com/storage/arrayssystems.html">http://h18006.www1.hp.com/storage/arrayssystems.html</a>   |
| OpenView Storage                          | <a href="http://h18006.www1.hp.com/storage/software.html">http://h18006.www1.hp.com/storage/software.html</a>   |
| Data Protector                            | <a href="http://www.hp.com/go/dataprotector">http://www.hp.com/go/dataprotector</a>   |
| Storage Media                             | <a href="http://h18006.www1.hp.com/storage/storagemedia.html">http://h18006.www1.hp.com/storage/storagemedia.html</a>   |
| Firmware & Driver Downloads               | <a href="http://welcome.hp.com/country/us/en/support.html">http://welcome.hp.com/country/us/en/support.html</a>   |
| Windows OS/ProLiant Server Support Matrix | <a href="http://h10018.www1.hp.com/wwsolutions/windows/index-all.html">http://h10018.www1.hp.com/wwsolutions/windows/index-all.html</a>   |
| Linux OS/ProLiant Server Support Matrix   | <a href="http://h18004.www1.hp.com/products/servers/linux/hpLinuxcert.html">http://h18004.www1.hp.com/products/servers/linux/hpLinuxcert.html</a>                               |
| NetWare OS/ProLiant Server Support Matrix | <a href="http://h10018.www1.hp.com/wwsolutions/novell/index-all.html">http://h10018.www1.hp.com/wwsolutions/novell/index-all.html</a>   |
| IT Resource Center Website                | <a href="http://itrc.hp.com">http://itrc.hp.com</a>   |
| Performance and Troubleshooting Support   | <a href="http://www.hp.com/support/pat">http://www.hp.com/support/pat</a>   |
| Network Services - Backup and Recovery    | <a href="http://h20219.www2.hp.com/services/cache/10819-0-0-225-121.aspx">http://h20219.www2.hp.com/services/cache/10819-0-0-225-121.aspx</a>                                   |

## Current EBS Configuration Advisories

| Date     | Description  | Number                        |
|----------|--|-------------------------------|
| 04/22/05 | Tape Backup In StorageWorks Enterprise Backup Solution (EBS) Environment From ProLiant Server May Not Complete If Insight Management Storage Agents Loaded | <a href="#">ES040611_CW01</a> |
| 04/07/05 | HP-UX Tachlite HBA Driver Causes SAN Tape Backups to Fail with Bus Reset when Background Applications, Such as OV-SAM, are Running                         | <a href="#">OE041223_CW01</a> |
| 04/07/05 | Enterprise Backup Solution (EBS) support for QLogic Serverless backup configurations is restricted to driver version 8.2.0.73                              | <a href="#">OA050126_CW01</a> |
| 03/29/05 | File Library Issue on NetWare Agent  | <a href="#">OS050322_CW01</a> |
| 02/15/05 | SDLT 600 Drives Not Detected or Detected as Robotics with Interface Manager < 1142 and Command View ESL < 1.4.02   | <a href="#">OT050127_CW07</a> |
| 02/03/05 | Unload to source slot may not work after power-cycling the ESL-e   | <a href="#">OT050124_CW02</a> |
| 01/21/05 | Some tape devices may not be presented when the QLogic fibre channel HBA driver for Linux is installed in failover mode                                    | <a href="#">OT050112_CW01</a> |
| 01/20/05 | No Detected Fibre-Attached Tape Drive Devices, But Many Hidden   | <a href="#">OT041223_CW01</a> |
| 01/05/05 | Shared Tape Configurations in a SAN (EBS) with Legato Networker, Sun Solaris 9, and Sun SG-XPCI2FC-QF2 HBA`s require Additional Manual Configuration Steps | <a href="#">OS040917_CW01</a> |
| 08/31/04 | Consecutive backup jobs fail when a HP-UX host is configured as the Master server and 10 or more concurrent jobs are active.                               | <a href="#">OT040823_CW04</a> |
| 08/30/04 | Legato Networker and Windows 2003 StorPort configuration requirements and limitations  | <a href="#">OT040823_CW02</a> |
| 07/22/04 | Removable Storage Manager (RSM) in Windows Server 2003 is not Disabling Properly Which Causes Performance Issues in Enterprise Backup Solutions (EBS).     | <a href="#">OT040301_CW01</a> |

To view these advisories do the following:

- 1) Click on the advisory number above or go to the IT Resource Center at <http://itrc.hp.com> (NOTE: To review these documents, you must register to use this website. )
- 2) Select "search technical knowledge base " (located at the top of the page under "maintenance and support (hp products)")
- 3) To search the technical knowledge base, enter a search word like "EBS" or an advisory number listed above.

**NOTE:** There may be other important advisories that may effect your EBS environment that are not listed on this page.  
Refer to the technical knowledge base or contact your local support representative for additional information.