HP Data Protector 6.20
Device Support Matrix
Version: 3.6
In order for Data Protector to recognize all supported devices ensure that you have the latest Data Protector SCSITab file.
The file can be downloaded from the web site http://www.hp.com/support/downloads/. On the left side, select "Download drivers and software". "Storage Software", "HP Data Protector 6.20 Software" and then any of the HP Data Protector links under "Select your product". Finally, select "Cross operating system (BIOS, Firmware, Diagnostics, etc.)". You can find the link to the SCSITab file in the "Software - Utility" section.

There are two matrices that provide the latest Data Protector 6.20 support for storage devices.

The first matrix presents Data Protector 6.20 compatibility with complete Hewlett-Packard Storage Area Network (SAN) environments. Every SAN environment listed in this matrix has been fully tested and is therefore highly recommended for high availability and mission-critical environments. These solutions provide customers 'one-stop shopping' and support for their SAN/FC environments with HP-UX, Windows, Tru64, HP OpenVMS, Linux, Novell NetWare, Solaris and IBM AIX operating systems:

HP Enterprise Business Solutions Compatibility Matrix (on the web page select "EBS Compatibility Matrix")
The second matrix is included in the document and provides a concise list of both media technology and backup devices from all manufactures and vendors that are certified and supported with Data Protector 6.20. All media technologies and devices listed as supported with HP-UX, Windows, Tru64, HP OpenVMS, Linux, Novell NetWare, Solaris and IBM AIX operating systems, are supported
in both SAN/FC environments and in a direct SCSI-to-SCSI connection. Support listed for SCO UNIX operating system includes only SCSI-to-SCSI connections:

Note: The compatibility matrices listed above are not the definitive list of SAN environments supported by Data Protector. These environments are those that have been fully tested and therefore are highly recommended. All media technologies and devices listed as supported with HP-UX, Windows, AIX, Tru64, Linux, Novell NetWare, HP OpenVMS and Solaris with HP Data Protector 6.20 Device Support Matrix are supported in a SAN environment. The SAN is transparent to Data Protector. All SAN hardware components (HBA, routers, hubs etc.) are supported with Data Protector if the hardware components within the SAN are supported by a vendor or a solution provider.

This matrix displays support for both Storage Area Network (SAN) environments and direct attached storage connections. All media technologies and devices listed as supported with HP-UX, Windows, IBM AIX, Tru64, Linux, Novell NetWare, HP OpenVMS and Solaris are supported in both a SAN environment and in a direct attached storage connection. Support listed for SCO UNIX is valid only for direct attached storage SCSI-to-SCSI connections. Data Protector supports only library and drive combinations supported by the hardware vendor.

The tables below list the media technology and backup devices that are certified and supported with Data Protector 6.20. If both the media technology and the device/library are listed as supported upon the operating system on which it is to be connected, Data Protector 6.20 support exists.

For example, to employ a HP Surestore $2 / 20$ containing HP LTO Ultrium drives with Data Protector 6.20 upon HP-UX, from checking the two tables below you will see that both the device and media technology are supported. Therefore, this is a supported Data Protector 6.20 configuration.

Although other devices may work with Data Protector 6.20, Hewlett-Packard only supports those listed within this document.

Explanation of symbols used within the matrix:
$\checkmark$ refers to full Hewlett-Packard support.

- refers to devices that have been qualified as interoperable in HP-UX environments and supported by Data Protector 6.20. Please see the HP web page "third party mass storage devices". Only certain combinations have been tested and added to the "third party mass storage devices" matrix, all combinations not listed in the "third party mass storage devices" matrix are supported through "referenced support" with Data Protector 6.20.
$\nabla$ refers to "referenced support". Some combinations have been qualified as interoperable in HP-UX environments and supported by Data Protector 6.20. Please see the HP web page "third party mass storage devices". For all other combinations, "referenced support" incorporates full Hewlett-Packard support for Data Protector 6.20 only. For any device-related issues, please contact the corresponding product vendor first.

In addition, consider the following:

- For all devices listed in tables below, please check the hardware I/O bus configuration with your device vendor to make sure your device also supports the I/O bus architecture.
- Windows Server 2003 StorPort port driver is supported with Windows Server 2003 SP1 class drivers. Windows Server 2003 tape and robotics class drivers need to be enabled. Microsoft recommends to update STORPORT.SYS in Windows Server 2003 SP1 (http://support.microsoft.com/kb/916048/en-us) and to update the tape class driver TAPE.SYS (http://support.microsoft.com/kb/907418/en-us). Windows Server 2003 with SP1 limits block sizes to 64 kB during a tape transfer. This limitation may affect performance of high performance tape drives that use larger block sizes. Larger record sizes are recommended with Ultrium tape devices. In Data Protector larger block sizes are possible up to 1024 kB .
- Data Protector 6.20 supports mixed media libraries. For further information, see the HP Data Protector online Help.
- Tape pool recycle management and a spare pool configuration is not supported when the tape library is populated with incompatible media from the same media type.
- The IBM AIX Media Agent supports drives only; library robotic must be connected to a system that supports a Data Protector Media Agent with robotics support, that is an HP-UX, Sun Solaris, Linux or a Windows system.
- On HP-UX libraries with more than one SCSI interface, the robotic control is not supported with EISA-SCSI card.
- STK ACSLS libraries are supported in HP-UX, Windows, Solaris SPARC and IBM AIX Media Agents. However, it is possible for all other Data Protector Media Agents to control ACSLS robotics indirectly through the HP-UX, Windows, Solaris or IBM AIX Media Agent.
- ADIC DAS libraries are supported in HP-UX and AIX Media Agents. However, it is possible for all other Data Protector Media Agents to control DAS robotics indirectly through the HP-UX or IBM AIX Media Agent.
- On Novell NetWare, fibre channel attached devices must not have SCSI ID (or target ID) higher than 15.
- Data Protector magazine support is available only with DDS and DLT tape drives.
- Some devices do not support SCSI auto-configuration and must be configured manually.
- Data Protector enables sharing of multi-drive libraries (libraries with more than one SCSI-II interface) between multiple systems and multiple cells, with robotic control running on an HP-UX, Windows, HP OpenVMS or Sun Solaris system.
- Library drives and robotics can be shared between multiple cells using the Manager-of-Managers server cell and CMMDB (Centralized Media Management Database).
- The library extension license is required for us of libraries with more than 60 slots.
- Magneto-optical WORM (Write Once Read Many) media are not supported by Data Protector. Although all magneto-optical drives do support magneto-optical WORM media, only the magneto-optical re-writable media are supported by Data Protector.
- Data Protector 6.20 supports STK VolSafe WORM media on all supported platforms with the STK9840 tape drive. HP LTO WORM media are supported on HP-UX, Linux, Solaris, Tru64 and HP OpenVMS operating systems. Please note that a "Tape Alert [9]" error will occur on HP-UX 11.31 however, such error can be ignored and will be addressed in the next HP-UX 11.31 "stape" patch.
- It is recommended that no more than 512 drives and 1500 slots be configured for each logical library in Data Protector 6.20.
- For VMware ESX support, those devices listed below as supported with Linux 32bit and are supported by VMware ESX Server are supported with Data Protector 6.20. Please Note: VMware does not support SAN attached devices on ESX servers.

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|  | Standalone\Jukebox File Device | 'File' | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  | $\checkmark$ | $\checkmark$ | $\checkmark$ |
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| 3 <br>  | Hewlett-Packard <br> Model | HP-UX PA-RISC |  | $\begin{aligned} & n \\ & 0 \\ & 0 \\ & 0 \\ & \hline \end{aligned}$ |  | $n$ $\frac{n}{10}$ 0 0 5 5 | $\frac{x}{\frac{x}{4}}$ |  |  | $\begin{aligned} & x \\ & \frac{x}{2} \\ & 8 \\ & 0 \end{aligned}$ | $\begin{aligned} & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & \hline \mathbf{0} \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \text { ㄹㄴ } \end{aligned}$ | $n$ 2 0 0 0 0 0 |
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|  | 1/8 G2 series tape autoloader with Ultrium 232 tape drive | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  |
|  | 1/8 G2 series tape autoloader with Ultrium 448 tape drive | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  |
|  | 1/8 G2 series tape autoloader with Ultrium 920 tape drive | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  |
|  | 1/8 G2 series tape autoloader with Ultrium 1760 tape drive | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  |  |  |  |
|  | 1/8 G2 series tape autoloader with Ultrium 3000 tape drives | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark^{10}$ | $\checkmark$ | $\checkmark$ |  |  |  |  |
| N | StoreEver 1/8 G2 Tape Autoloader with Ultrium 6000 tape drives | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark^{10}$ | $\checkmark$ | $\checkmark$ |  |  |  |  |
|  | HP SSL1016 <br> DLT1 tape autoloader | $\checkmark$ |  | $\checkmark$ |  |  |  |  |  |  | $\checkmark$ |  |  |
|  | HP SSL1016 SDLT320 tape autoloader | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |  |  | $\checkmark$ |  |  |
|  | HP SSL1016 <br> LTO 460 tape autoloader | $\checkmark$ | $\checkmark$ | $\checkmark^{7}$ | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ |  |
|  | HP SSL2020TL |  |  | $\checkmark$ |  | $\checkmark$ | $\checkmark^{10}$ | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ | $\checkmark^{9}$ |
|  | HP MSL5026DLX | $\checkmark$ |  | $\checkmark$ |  | $\checkmark$ | $\checkmark^{10}$ | $\checkmark$ |  |  | $\checkmark$ |  | $\checkmark^{9}$ |
|  | HP MSL2024 | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark^{10}$ | $\checkmark$ | $\checkmark$ |  | $\checkmark$ | $\checkmark$ | $\checkmark^{9}$ |
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FastStor 7



| $\stackrel{3}{9}$ | $\begin{aligned} & \text { BDT } \\ & \text { Model } \end{aligned}$ | $u$ $\underline{u}$ $\vdots$ $\vdots$ $\vdots$ $\vdots$ $\vdots$ $\vdots$ |  |  |  |  |  |  |  | $\begin{aligned} & \frac{x}{2} \\ & 5 \\ & \stackrel{3}{0} \end{aligned}$ | $\begin{aligned} & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & =0 \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ | $\begin{aligned} & \text { 芯 } \\ & \stackrel{1}{2} \end{aligned}$ |
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|  | ThinStor 1/8 Autoloader |  |  | $\checkmark$ |  | $\checkmark$ |  | $\checkmark$ |  |  | $\checkmark$ |  |
|  | BDT FlexStor II Family |  |  | $\checkmark$ | $\checkmark$ |  |  |  | $\checkmark$ |  |  |  |


| \% | Benchmark <br> Model | U $y$ $\frac{1}{\alpha}$ $\vdots$ $\vdots$ $\vdots$ $\vdots$ |  |  | $\begin{aligned} & 0 \\ & \frac{0}{3} \\ & \frac{0}{0} \\ & \frac{0}{7} \\ & \frac{1}{4} \end{aligned}$ | $\begin{aligned} & \text { n } \\ & \frac{2}{0} \\ & \text { n } \\ & \text { जे } \end{aligned}$ | $\begin{aligned} & \frac{x}{4} \\ & \sum_{\varphi}^{\ddot{4}} \end{aligned}$ |  |  | $\begin{aligned} & x \\ & \frac{x}{2} \\ & \stackrel{3}{0} \\ & \hline \end{aligned}$ |  | + |
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|  | ValuSmart Tape 640 Blade |  |  | $\checkmark$ |  | $\checkmark$ |  | $\checkmark$ |  |  | $\checkmark$ |  |


| 3 | Breece Hill <br> Model |  |  | $\begin{aligned} & \sum_{0}^{0} \\ & \frac{10}{0} \\ & \frac{1}{i} \\ & \frac{1}{3} \end{aligned}$ |  | n 0 0 0 5 5 n | $\frac{x}{e}$ |  |  | $\begin{aligned} & \text { x } \\ & \frac{1}{3} \\ & \stackrel{8}{u} \end{aligned}$ | 0 <br> 0 <br> 0 <br> 0 <br> $\mathbf{0}$ <br> $\mathbf{0}$ <br> $\mathbf{0}$ <br> 0 <br> $\mathbf{0}$ | + |
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|  | Q140 Saguaro |  |  |  |  | $\checkmark$ |  |  |  |  |  |  |


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| 3 | Decru <br> model |  |  | $\begin{aligned} & \overline{訁 ⿻}_{0}^{2} \\ & \frac{0}{n} \\ & \frac{0}{3} \end{aligned}$ |  |  | $\sum_{\mathscr{M}}^{\frac{x}{4}}$ |  |  | $\begin{aligned} & \text { x } \\ & \frac{x}{2} \\ & 0 \\ & \hline 0 \end{aligned}$ |  | $\stackrel{\text { t }}{\stackrel{y}{E}}$ |
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|  | DATAFORT FC-Series | $\checkmark$ |  | $\checkmark$ | $\checkmark$ | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  |  |  |
|  | DATAFORT S-Series | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  |  |  |


| \% | Dell <br> model |  |  |  |  | $\begin{aligned} & \frac{n}{0} \\ & \frac{n}{0} \\ & 0 \\ & \vdots \\ & \vdots \end{aligned}$ | $\sum_{\underline{e x}}^{\frac{x}{6}}$ |  |  | $\begin{aligned} & \frac{x}{2} \\ & 5 \\ & 0 \\ & 0 \\ & \hline \end{aligned}$ | $\begin{aligned} & 0.0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & \hline 0 \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ | $\stackrel{\text { ¢ }}{\text { E }}$ |
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|  | Power Vault ML6000 Series | $\nabla$ | $\nabla$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark^{10}$ | $\checkmark$ | $\checkmark$ |  |  |  |
|  | DATAFORT FC Series | $\nabla$ | $\nabla$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark^{10}$ | $\checkmark$ | $\checkmark$ |  |  |  |


| 3 $=$ $=$ | Certance/Seagate <br> Model |  |  |  | $\begin{aligned} & \text { n } \\ & \frac{\mathbb{O}}{0} \\ & \frac{0}{7} \\ & \frac{1}{4} \end{aligned}$ | $n$ 0 0 0 0 5 n | $\begin{aligned} & \frac{x}{4} \\ & \underset{\sim}{E} \end{aligned}$ |  |  | $\begin{aligned} & x \\ & \frac{x}{2} \\ & 5 \\ & 0 \\ & 0 \end{aligned}$ |  | $\stackrel{\text { ¢ }}{\text { ¢ }}$ |
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|  | Seagate RSS (Certance) Scorpion 40 |  |  | $\checkmark$ | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |  |
|  | Seagate RSS (Certance) <br> Viper 200 LTO (i/e) Standalone |  |  | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |  |
|  | Seagate RSS (Certance) Viper 2000 Autoloader |  |  | $\checkmark$ |  |  |  |  |  |  |  |  |
|  | Certance (Seagate RSS) CD 40 (DDS-4) |  |  | $\checkmark$ |  |  |  |  |  |  |  |  |
|  | Certance (Seagate RSS) CD 72 (DAT72) |  |  | $\checkmark$ | $\checkmark$ |  |  | $\checkmark$ |  |  | $\checkmark$ |  |
|  | Certance (Seagate RSS) CL 432 (DAT72) |  |  | $\checkmark$ | $\checkmark$ |  |  | $\checkmark$ |  |  | $\checkmark$ |  |
|  | Certance (Seagate RSS) CDL 432 (DAT72) |  |  | $\checkmark$ | $\checkmark$ |  |  | $\checkmark$ |  |  | $\checkmark$ |  |
|  | Certance (Seagate RSS) CL 200 (LTO Ultrium 1) |  |  | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |  |
|  | Certance (Seagate RSS) CL 400 (LTO Ultrium 2) |  |  | $\checkmark$ | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |  |
|  | Certance (Seagate RSS) CL 800 (LTO Ultrium 3) |  |  |  | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ |  |  |  |
|  | Certance (Seagate RSS) CLL 1600 LTO1 Autoloader |  |  | $\checkmark$ | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |  |
|  | Certance (Seagate RSS) CLL 3200 LTO2 Autoloader |  |  | $\checkmark$ | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |  |



| $\frac{3}{2}$ | ExaGrid <br> Model |  |  |  |  |  | $\underset{\text { ex }}{\stackrel{x}{4}}$ |  |  | $\begin{aligned} & \stackrel{x}{2} \\ & 0 \\ & \stackrel{0}{0} \end{aligned}$ | $\begin{aligned} & 0.0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & \hline 0 \\ & \hline 0 \\ & 0 \\ & 0 \end{aligned}$ | $\stackrel{\text { t }}{\stackrel{\rightharpoonup}{E}}$ |
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|  | ExaGrid Appliance ${ }^{24}$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  |  |  |


| $\frac{3}{2}$ | FalconStor <br> Model |  |  |  |  |  | $\sum_{\underset{\sim}{6}}^{\frac{x}{4}}$ |  |  | $\begin{aligned} & \text { x } \\ & 0 \\ & 0 \\ & 0 \\ & \hline \end{aligned}$ |  | $\stackrel{\text { E }}{\text { E }}$ |
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|  | VirtualTape Library | $\checkmark$ |  | $\checkmark$ |  |  |  |  |  |  |  |  |


| ? | Fujitsu <br> Model |  |  |  |  |  | $\sum_{\mathscr{\omega}}^{\frac{x}{4}}$ |  |  | $\begin{aligned} & \stackrel{x}{2} \\ & 0 \\ & \stackrel{\rightharpoonup}{6} \end{aligned}$ | $\begin{aligned} & 0.0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ | $\stackrel{\text { U }}{\stackrel{\rightharpoonup}{t}}$ |
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|  | ETERNUS CS High End ${ }^{12}$ | $\nabla$ | $\nabla$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  | $\checkmark$ |  |  |  |
|  | ETERNUS CS800 | $\nabla$ | $\nabla$ | $\checkmark$ | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ |  |  |  |
|  | LT250 | $\nabla$ | $\nabla$ | $\checkmark$ | $\checkmark$ |  |  |  |  |  |  |  |



| \％ | GRAU Data Storage <br> Model |  |  |  |  |  | $\sum_{\mathscr{e x}}^{\frac{x}{4}}$ |  |  | $\begin{aligned} & \frac{x}{2} \\ & 0 \\ & 0 \\ & \hline \end{aligned}$ | $\begin{aligned} & 0.0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & \hline 0 \\ & \hline 0 \\ & 0 \\ & 0 \end{aligned}$ | $\stackrel{\text { ¢ }}{\text { ¢ }}$ |
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|  | INFINISTORE Tape Library／ Model XL | $\checkmark$ |  |  |  |  | $\checkmark^{10}$ |  |  |  |  |  |


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| L2／20 Tape Library | $\bullet$ | $\bullet$ | $\checkmark$ |  | $\checkmark$ | $\checkmark^{10}$ | $\checkmark$ |  |  |  |  |
| L2／40 Tape Library | $\bullet$ | $\bullet$ | $\checkmark$ |  | $\checkmark$ | $\checkmark^{10}$ | $\checkmark$ |  |  |  |  |
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| L6／80 Tape Library | － | － | $\checkmark$ |  | $\checkmark$ | $\checkmark{ }^{10}$ | $\checkmark$ |  |  |  |  |
| L8／80 Tape Library | － | － | $\checkmark$ |  | $\checkmark$ | $\checkmark^{10}$ | $\checkmark$ |  |  |  |  |






| ? | NeoScale <br> Model |  |  |  |  |  | $\sum_{\underset{\sim}{6}}^{\frac{x}{4}}$ |  |  | $\begin{aligned} & \text { 㐅} \\ & \mathbf{y} \\ & 0 \\ & 0 \\ & \hline \end{aligned}$ |  | + |
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|  | CryptoStor Tape 700 Series | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ |  |  |  |
| \% | NetApp <br> Model |  |  |  |  |  | $\sum_{\underset{\sim}{x}}^{\substack{x}}$ |  |  | $\begin{aligned} & \text { x } \\ & \mathbf{Z} \\ & 0 \\ & 0 \\ & \hline \end{aligned}$ |  | + |
|  | NetApp VTL 300 | $\checkmark$ | $\nabla$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  | $\checkmark$ |  |  |  |
|  | NetApp VTL 600 | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  | $\checkmark$ |  |  |  |
|  | NetApp VTL 700 | V | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  | $\checkmark$ |  |  |  |
|  | NetApp VTL 1200 | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  | $\checkmark$ |  |  |  |
|  | NetApp VTL 1400 | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  | $\checkmark$ |  |  |  |
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| \% | Quantum <br> Model |  |  |  | $\begin{aligned} & \text { No } \\ & \frac{0}{0} \\ & \frac{0}{n} \\ & \frac{0}{3} \end{aligned}$ |  | $\sum_{\text {ex }}^{\frac{x}{4}}$ |  |  | $\begin{aligned} & \stackrel{x}{2} \\ & \stackrel{1}{0} \\ & \stackrel{0}{0} \end{aligned}$ | $\begin{aligned} & 0.0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ | $\stackrel{\text { d }}{\stackrel{\rightharpoonup}{E}}$ |  |
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|  | DXi8500 3тв | V | V | $\checkmark$ | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ |  |  |  |  |
| $\stackrel{3}{9}$ | SEPATON <br> Model |  |  |  |  |  |  |  |  | $\begin{aligned} & \frac{x}{2} \\ & \stackrel{0}{0} \\ & \stackrel{0}{2} \end{aligned}$ | $\begin{aligned} & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 2 \end{aligned}$ | $\stackrel{\text { U }}{\stackrel{\text { It }}{E}}$ |  |
|  | S2100 VTL |  |  | $\checkmark$ |  |  |  |  |  |  |  |  |  |
| $\stackrel{?}{5}$ | SONY <br> Model |  |  |  |  |  | $\sum_{\text {ex }}^{\frac{x}{4}}$ |  |  | $\begin{aligned} & \text { 苃 } \\ & \stackrel{\rightharpoonup}{0} \end{aligned}$ | $\begin{aligned} & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 2 \\ & 20 \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ | $\stackrel{\text { む }}{\stackrel{\rightharpoonup}{E}}$ | n 0 0 ¢ O a |
|  | SDX-400C AIT-1 series |  |  |  | $\checkmark$ |  |  |  |  |  |  |  |  |
|  | SDX-500C AIT-2 series |  |  | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ |  |
|  | SDX-520V AIT-2 series |  |  | $\checkmark$ |  |  |  |  |  |  |  |  |  |


| ? | SONY <br> Model |  |  |  | $\begin{aligned} & \text { n } \\ & \frac{\mathbb{O}}{0} \\ & \frac{0}{7} \\ & \frac{7}{4} \end{aligned}$ |  | $\begin{aligned} & \frac{x}{4} \\ & \sum_{\text {en }}^{2} \end{aligned}$ |  |  |  |  | $\stackrel{\text { 8 }}{\stackrel{\text { B}}{3}}$ |  |
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|  | SDX-700C AIT-3 series | $\nabla^{11}$ |  | $\checkmark$ | $\checkmark$ |  | $\checkmark$ | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |  |  |
|  | SDX-700V AIT-3 series | $\checkmark^{11}$ |  |  |  |  |  |  |  |  |  |  |  |
|  | SDX-900V AIT-4 series | $\nabla^{11}$ |  | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |
|  | SDX-1100V AIT-5 series | $\checkmark^{11}$ |  | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ |
|  | SDZ-100 SAIT series | $\nabla^{11}$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ |  |  |  |  |
|  | SDZ-130 SAIT series | $\nabla^{11}$ |  | $\checkmark$ | $\checkmark$ | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  |  |  |  |
|  | Sony LIB-81/A3 | $\nabla^{11}$ |  |  |  |  |  |  |  |  |  |  |  |
|  | Sony LIB-D81/A3 | $\nabla^{11}$ |  |  |  |  |  |  |  |  |  |  |  |
|  | Sony LIB-162/A3 | $\nabla^{11}$ |  |  |  |  |  |  |  |  |  |  |  |
|  | Sony LIB-81/A4 | $\nabla^{11}$ |  |  |  |  |  |  |  |  |  |  |  |
|  | Sony LIB-D81/A4 | $\nabla^{11}$ |  |  |  |  |  |  |  |  |  |  |  |
|  | Sony LIB-162/A4 | $\nabla^{11}$ |  |  |  |  |  |  |  |  |  |  |  |
|  | Sony LIB-81/A5 | $\nabla^{11}$ |  |  |  |  |  |  |  |  |  |  |  |
|  | Sony LIB-D81/A5 | $\nabla^{11}$ |  |  |  |  |  |  |  |  |  |  |  |



| 3 <br>  <br> $=$ | Spectra Logic <br> Model | y $y$ $\frac{1}{\alpha}$ $\vdots$ $\vdots$ $\vdots$ $\vdots$ $\vdots$ |  |  |  | $\begin{aligned} & \text { n } \\ & \frac{0}{0} \\ & \text { b } \\ & \text { जे } \end{aligned}$ | $\frac{x}{\frac{x}{4}}$ |  |  | $\begin{aligned} & x \\ & \frac{x}{2} \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ | $\begin{aligned} & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ | $\begin{aligned} & \text { E } \\ & \text { E } \end{aligned}$ |
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|  | Spectra T120 | $\checkmark$ |  | $\checkmark$ |  | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  |  |  |
|  | Spectra T200 | $\checkmark$ |  | $\checkmark$ |  | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  |  |  |
|  | Spectra T380 | $\checkmark$ |  | $\checkmark$ |  | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  |  |  |
|  | Spectra T680 | $\checkmark$ |  | $\checkmark$ |  | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  |  |  |
|  | Spectra T950 | $\checkmark$ |  | $\checkmark$ |  | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  |  |  |
|  | Spectra T24 | $\checkmark$ |  | $\checkmark$ |  | $\checkmark$ |  |  |  |  |  |  |
| $\begin{aligned} & 3 \\ & \mathbf{3} \\ & \mathbf{Z} \end{aligned}$ | StorageTek <br> Model |  |  |  |  | $\begin{aligned} & \text { n } \\ & \frac{n}{2} \\ & 0 \\ & 0 \\ & \text { E } \\ & \text { जn } \end{aligned}$ | $\sum_{\underset{\sim}{e}}^{\underset{\alpha}{x}}$ |  |  | $\begin{aligned} & \text { x } \\ & \frac{1}{5} \\ & 0 \\ & 0 \end{aligned}$ | 0 <br> 0 <br> 0 <br> 0 <br> $\mathbf{0}$ <br> $\mathbf{0}$ <br> 0 <br> 0 | $\stackrel{\text { U }}{\stackrel{2}{2}}$ |
|  | STK 280 scratch loader | $\checkmark$ |  |  |  |  |  |  |  |  |  |  |
|  | Lago LS/340 Datawheel |  |  |  |  | $\checkmark$ |  |  |  |  |  |  |
|  | Silo Model 4400 with ACSLS | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  |  |
|  | Silo Model 9310 Powderhorn with ACSLS ${ }^{1}$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  |  |  |  |  |


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| $\frac{3}{2}$ | StorageTek <br> Mode |  |  |  |  |  |  |  |  | $\begin{aligned} & \frac{x}{2} \\ & \stackrel{y}{5} \\ & \stackrel{0}{6} \end{aligned}$ |  |  |
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|  | STK L180 with ACSLS ${ }^{1}$ | V | - | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  |  |
|  | STK L700 | - | $\bullet$ | $\checkmark$ |  | $\checkmark$ | $\checkmark{ }^{10}$ | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ |
|  | STK L700 with ACSLS ${ }^{1}$ | V | - | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  |  |
|  | STK L700E with ACSLS ${ }^{1}$ | V | V | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  |  |
|  | STK L700E | - | - | $\checkmark$ |  | $\checkmark$ | $\checkmark 10$ | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ |
|  | STK L1400 | $\square$ | V | $\checkmark$ |  | $\checkmark$ | $\checkmark^{10}$ | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ |
|  | STK L1400 with ACSLS ${ }^{1}$ | V | - | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark 10$ | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ |
|  | STK Silo Model L5500 with ACSLS ${ }^{1}$ | V | V | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  |  |
|  | STK SL500 | - | $\bullet$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark 10$ |  |  |  |  |  |
|  | STK SL500 with ACSLS ${ }^{1}$ | $\bullet$ | $\bullet$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark^{10}$ |  |  |  |  |  |
|  | STK SL150 | $\square$ | V | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark 10$ | $\checkmark$ | $\checkmark$ |  |  |  |
|  | STK SL150 with ACSLS ${ }^{1}$ | $\nabla$ | V | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark^{10}$ | $\checkmark$ | $\checkmark$ |  |  |  |
|  | SL500 ADI Bridged (SAS) |  |  | $\checkmark$ |  | $\checkmark$ |  |  |  |  |  |  |
|  | SL500 ADI Bridged (SAS) with ACSLS ${ }^{1}$ |  |  | $\checkmark$ |  | $\checkmark$ |  |  |  |  |  |  |


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1 This device requires the ACSLS software from StorageTek. The following versions of ACSLS have been tested with Data Protector:

- 5.2
- 5.3
- 5.3.2
- 5.4
- 6.0
- 6.01
- 6.1
- 6.1.1
- 7.0
- 7.1
- 7.1.1
- 7.2
- 7.3
- 7.4
- 8.0.x
- 8.1.x
- 8.2.x

HP support covers configuration and usage of ACSLS within Data Protector, but HP provides no support for the ACSLS software. For the MVS-controlled
libraries, the following versions have been tested:

- MVS 5.2.2
- Library Station 3.1.0, 4.0, 5.0
- Library Control Facility 3.1.0
- HSC 2.1.0

Note: To utilize ACSLS on Windows, StorageTek LibAttach software is a pre-requisite and must be purchased separately from StorageTek.

- DAS 1.30
- DAS 1.30C
- DAS 3.01 (single DAS server)
- DAS 3.10

HP support covers configuration and usage of DAS within Data Protector, but HP provides no support for DAS software.
Library or autoloader supported only in stacker mode.
4 Refer to the Data Domain web link at http://www.emc.com/products/family/data-domain-family.htm to get details on the specific models.
5 To utilize IBM 3584 on Linux, the IBM device drivers are required. These can be obtained from the following web page:
http://www-1.ibm.com/support/all download drivers.html

Insight Storage Agent should be disabled when using the HP SSL1016 tape autoloader with LTO 460 on Windows XP with the Adaptec U160 SCSI HBA.
8 TL895 option "Auto Drive Unload" needs to be enabled (which is not the default setting).
9 Minimum revision of SYS\$MKDRIVER required:
VMS 7.3-1:
image file identification: "X-12"
image file build identification: "X9TD-0060030044"
link date/time: 28-JAN-2004 14:33:50.53
10 The IBM AIX media agent supports drives only; the library robotic must be connected to a system that supports a Data Protector Media Agent with robotic support which supports the library (that is an HP-UX, Sun Solaris, Linux or Windows system).

11 To utilize Sony AIT and SAIT on HP-UX, the Sony device driver is required. The driver can be obtained from the following web page: http://sony.storagesupport.com/ait/hpux.htm
12 Emulations supported with the Fujitsu-Siemens CentricStor:

| ETERNUS CS Tape Emulation | Drive Configured in Data Protector | CentricStor Robot Control Emulation | Robotic Configured in Data Protector | HP-UX PA | HP-UX IA | Windows | Solaris | Linux | AIX |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Generic SCSI-2 | 3480 | SCSI | SCSI Library | $\checkmark$ |  | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |
| Generic SCSI-2 | 3480 | DAS | DAS Library | $\checkmark$ |  | $\checkmark$ |  |  |  |
| Generic SCSI-2 | 3480 | ACSLS | ACSLS Library | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  |  |
| Mammoth 2 | Exabyte | SCSI | SCSI Library |  | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |
| Mammoth 2 | Exabyte | DAS | DAS Library |  | $\checkmark$ | $\checkmark$ |  |  |  |
| STK9840B | 9840 | ACSLS | ACSLS Library | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  |
| IBM 3590 E1A | 3590 | DAS | DAS Library |  | $\checkmark$ |  |  |  | $\checkmark$ |
| IBM 3590 E1A | 3590 | ACSLS | ACSLS Library |  |  |  |  |  | $\checkmark$ |
| IBM 3590 E1A | 3590 | SCSI | SCSI Library | $\checkmark$ |  | $\checkmark$ |  |  | $\checkmark$ |
| IBM Ultrium LTO2 | LTO Ultrium | ACSLS | ACSLS Library |  | $\checkmark$ |  |  |  |  |
| IBM Ultrium LTO2 | LTO Ultrium | DAS | DAS Library |  | $\checkmark$ |  |  |  |  |
| IBM Ultrium LTO2 | LTO Ultrium | SCSI | SCSI Library |  | $\checkmark$ |  |  |  |  |

${ }^{13}$ To utilize HP USB devices on Windows, the HP Mass Storage Driver (HPUSBMSC.SYS) driver is required.
${ }^{14}$ When using iSCSI initiator software, only SUSE Linux Enterprise Server (SLES) 10 SP2 and SLES11 are supported.
15 The IBM LTO device driver is required. This can be obtained from the following URL: http://www-1.ibm.com/support/all download drivers.html. Please Note: The native operating system driver should be used for the library robotic. Please reference Data Domain Compatibility Matrix for further detail: https://support.datadomain.com/compat matrix.php
16 Minimum device firmware required for VLS Accelerated Deduplication: 3.4.0 for VLS 6200/6600/9000/12000 and 6.0.0.2 for VLS 9200/12200.
${ }^{17}$ SL3000 AEM import/export slots is currently limited to 99 import/exports per job. This limitation is being reviewed and will be fixed within a future Data Protector patch.
18 Supported only with SUSE Linux Enterprise Server (SLES) 10 SP2, SLES 11 and RHEL 5.4.
19 Details of supported Linux distributions for drive based encryption are available in the HP Data Protector 6.20 Platform and Integration Support Matrix.
${ }^{21}$ To utilize IBM LTO with AES Encryption support on HP-UX, the minimal IBM firmware version required is B711. This firmware can be obtained from the following web page : http://www-933.ibm.com/support/fixcentral
${ }^{23}$ Dual Robot feature is supported with the patch: PHSS_42860/DPWIN_00571/DPLNX_00199/DPSOL_00493.
24 File devices created on the ExaGrid NAS appliances are supported.

26 Drive based encryption is not yet supported on this drive.
${ }^{27}$ Drive Based Encryption is supported using the SSP: SSPSOL620_004

Note: For information on the Data Protector omnirc file, see the HP Data Protector online Help.

