



**Updated: 25 May 2007**

|   |   |
|---|---|
| Operating System Support .....                | 2 |
| Platform Support by Operating System.....     | 3 |
| File System Support by Operating System ..... | 3 |
| HP Tape Devices .....                         | 4 |
| HP Tape Autoloaders .....                     | 6 |
| HP Tape Library Systems.....                  | 6 |
| HP Virtual Tape Library Systems.....          | 7 |
| HP CD & DVD Writers .....                     | 8 |

**Scope and Limitations**

This document contains the operating systems, applications and backup devices tested by HP to be compatible with **Data Protector Express 3.5 (new entries with this release are listed in bold)**. HP provides best efforts to test and support Data Protector Express with as many different operating systems, service packs, applications and hardware devices as possible and as demanded by customers. However, due to the large number of software and hardware combinations, it is not possible to test all combinations. If a particular device, service pack or version is not included in this document it may be compatible with Data Protector Express but has not been tested by HP with Data Protector Express. To deliver the comprehensive HP support, this support is only valid when Data Protector Express is used in combination with software and hardware listed in this document.

HP Data Protector Express Single Server Edition is based on HP Data Protector Express. It is a component of the HP tape drives and HP tape autoloaders solutions and delivers a subset of the functionality of Data Protector Express. It also delivers a subset of the software and hardware compatibility of Data Protector Express. The functionality and compatibility of Data Protector Express Single Server Edition provides a robust solution for protecting a single machine by backing up to a HP tape drive or HP tape autoloader. The full functionality and compatibility of Data Protector Express can be acquired through purchasing an upgrade from Data Protector Express Single Server Edition to Data Protector Express using SKU BB1 17ET

## Operating System Support

| Component  | Operating system <sup>1</sup>  |
|--|--|
| Backup Server  | Microsoft Windows Server 2003 Enterprise Edition (incl. R2)<br>Microsoft Windows Server 2003 Standard Edition (incl. R2)<br>Microsoft Windows Storage Server 2003 <b>(incl. R2)</b> <sup>2</sup><br>Microsoft Windows 2000 Advanced Server SP4<br>Microsoft Windows 2000 Server SP4<br>Microsoft Windows Small Business 2003 Server Premium <b>(incl. R2)</b><br>Microsoft Windows Small Business 2003 Server Standard<br>Microsoft Windows Small Business Server 2000 SP4<br>Microsoft Windows XP Professional SP2<br>Microsoft Windows XP Home SP2<br>Microsoft Windows 2000 Professional SP4<br>Red Hat Enterprise Linux (WS/ES/AS) 4<br>Red Hat Enterprise Linux (WS/ES/AS) 3<br>SuSE Linux Enterprise Server 10<br>SuSE Linux Enterprise Server 9<br>NetWare 6.5 SP2<br>NetWare 6.0 SP3 |
| Microsoft Small Business Server Package <sup>3</sup> | Microsoft Windows Small Business 2003 Server Premium <b>(incl. R2)</b><br>Microsoft Windows Small Business 2003 Server Standard<br>Microsoft Windows Small Business Server 2000 SP4  |
| Operating systems obsoleted with 3.5                 | Microsoft Windows NT4 Server SP6A<br>SuSE Linux Enterprise Server 8<br>NetWare 5.1 SP8   |

<sup>1</sup> Where Service Packs, Updates or Support Packs are given, these are the minimum levels required for Data Protector Express to run on the listed operating system. Higher versions are supported.

<sup>2</sup> MS WSS 2003 is supported with HP ProLiant Storage Servers

<sup>3</sup> Note that because the Data Protector Express Microsoft Exchange and Data Protector Express Microsoft SQL Server on-line backup agents run on the SBS Server the application specific procedures must be followed as described in the backup section of the Data Protector Express Users Guide.

## Platform Support by Operating System

| Operating system  | Supported processor platform       |
|---|------------------------------------|
| Microsoft Windows   | x86 (for 32-bit Windows)           |
| <b>Microsoft Windows</b>  | <b>x86_64 (for 64-bit Windows)</b> |
| Red Hat Enterprise Linux 4<br>Red Hat Enterprise Linux 3<br>SuSE Linux Enterprise Server 10<br>SuSE Linux Enterprise Server 9 | x86 (for 32-bit Linux)             |
| Red Hat Enterprise Linux 4<br>SuSE Linux Enterprise Server 10<br>SuSE Linux Enterprise Server 9                               | x86_64 (for 64-bit Linux)          |
| NetWare   | x86                                |

## File System Support by Operating System

| Operating system      | File systems  |
|-----------------------|---|
| Windows               | NTFS, including Microsoft Windows Volume Shadow Services (VSS)<br>FAT16<br>FAT32<br>CIFS                      |
| Linux (Red Hat, SuSE) | ext3, ext2<br>ReiserFS<br>VFAT<br>jfs, xfs  |
| NetWare               | NetWare FS (classic volumes)<br>Supported namespaces: MAC, NFS, OS/2 (LONG), DOS<br>NSS (Netware NSS volumes) |

## HP Tape Devices

| Model                                 | Format | Interface | Inquiry String <sup>4</sup> | OBDR support <sup>5</sup> |
|---------------------------------------|--------|-----------|-----------------------------|---------------------------|
| HP SureStore Tape 2000 (DDS-1 2GB)    | DAT    | SCSI      | HP*****35470A               | no                        |
| HP SureStore Tape 5000 (DDS-1 2/4 GB) | DAT    | SCSI      | HP*****35480A               | no                        |
| HP SureStore DAT8 (DDS-2 4/8GB)       | DAT    | SCSI      | HP*****C1533A               | no                        |
| HP SureStore DAT24 (DDS-3 12/24GB)    | DAT    | SCSI      | HP*****C1537A               | yes                       |
| HP StorageWorks DAT24 (DDS-2 12/24GB) | DAT    | USB       | HP*****C1537A               | yes                       |

<sup>4</sup>The "\*" character denotes a space in the inquiry string.

<sup>5</sup>The HP One-Button Disaster Recovery feature (OBDR) allows a system to boot from a locally attached tape drive with any full backup tape loaded with no additional preparation steps required. OBDR is supported via the Data Protector Express Bare Metal Disaster Recovery option. Data Protector Express supports OBDR on HP ProLiant servers on all supported Windows and Linux operating systems but not on NetWare. The following ProLiant specific requirements must be met:

If the tape drive is connected using the embedded U320 SCSI controller, the firmware must be a minimum of 5.05.19

For the ProLiant ML350 G4: Download system ROM dated 8/16/2005 or later

For the ProLiant ML370 G4: Download system ROM dated 11/09/2005 or later

For the ProLiant ML570 G3: Download system ROM dated 10/25/2005 or later

If the tape drive is connected using the single channel (374654-B21) U320 SCSI HBA or the dual channel (268351-B21) U320 SCSI HBA the firmware needs to be minimum of 5.05.20

If the tape drive is connected using the Smart Array SA5x RAID controller (embedded or HBA) OBDR is not supported.

If the tape drive is connected to the ProLiant, running Linux, using the Smart Array SA6x controller (embedded or HBA), the following CCISS driver is required:

RHEL3 minimum version 2.4.60-8

SUSE8 minimum version 2.4.60-8

RHEL4 minimum version 2.6.10-8

SUSE9 minimum version 2.6.10-8

If the tape drive is connected to the ProLiant, running Linux, using a LSI U320 SCSI controller (embedded and HBA) the following non-RAID drivers are required:

RHEL3 minimum version 2.06.24-4

SUSE8 minimum version 2.06.24-4

RHEL4 minimum version 3.02.56-4

SUSE9 minimum version 3.02.56-4

These referenced drivers are available on <http://www.hp.com>

For the latest information please see <http://www.hp.com/go/obdr>

| Model   | Format | Interface | Inquiry String <sup>4</sup>  | OBDR support <sup>5</sup> |
|---|--------|-----------|------------------------------|---------------------------|
| HP SureStore DAT40 (DDS-4 20/40GB)  | DAT    | SCSI      | HP*****C5683A                | yes                       |
| HP StorageWorks DAT40 (DDS-4 20/40GB)   | DAT    | SCSI      | HP*****C5683A                | yes                       |
| HP StorageWorks DAT40 (DDS-4 20/40GB)   | DAT    | USB       | HP*****C5683A                | yes                       |
| HP StorageWorks DAT72 (DAT72 36/72GB)   | DAT    | SCSI      | HP*****C7438A                | yes                       |
| HP StorageWorks DAT72 (DAT72 36/72GB)   | DAT    | USB       | HP*****C7438A                | yes                       |
| HP StorageWorks Value Smart VS80<br>(337699-B21/337699-B22/337699-B31/337699-291) | DLT    | SCSI      | HP*****DLT*VS80              | no                        |
| HP StorageWorks Value Smart VS160   | DLT    | SCSI      | HP*****DLT*VS160             | no                        |
| HP SureStore DLT VS-80<br>(C7501 OEM variant)                                     | DLT    | SCSI      | BNCHMRK*DLT1<br>BNCHMARKDLT1 | no                        |
| HP SureStore DLT40  | DLT    | SCSI      | QUANTUM*DLT4000              | no                        |
| HP SureStore DLT80  | DLT    | SCSI      | QUANTUM*DLT8000              | no                        |
| HP StorageWorks SDLT 320<br>(257319-001/257319-291/257319-B21/257319-B31)         | DLT    | SCSI      | COMPAQ**SDLT320              | yes                       |
| HP StorageWorks SDLT 600<br>(320A7518A/A7519A/A7520A/A7521A/A7522A)               | SDLT   | SCSI      | COMPAQ**SDLT600              | yes                       |
| HP StorageWorks Ultrium 215 (Ultrium 1 Half Height)                               | LTO    | SCSI      | HP*****Ultrium*1-SCSI        | yes                       |
| HP StorageWorks Ultrium 230 (Ultrium 1 Full Height)                               | LTO    | SCSI      | HP*****Ultrium*1-SCSI        | yes                       |
| HP StorageWorks Ultrium 232 (Ultrium 1 Half Height)                               | LTO    | SCSI      | HP*****Ultrium*1-SCSI        | yes                       |
| HP StorageWorks Ultrium 448 (Ultrium 2 Half Height)                               | LTO    | SCSI      | HP*****Ultrium*2-SCSI        | yes                       |
| HP StorageWorks Ultrium 448 SAS (Ultrium 2 Half Height)                           | LTO    | SAS       | HP*****Ultrium*2-SCSI        | yes                       |
| HP StorageWorks Ultrium 460 (Ultrium 2 Full Height)                               | LTO    | SCSI      | HP*****Ultrium*2-SCSI        | yes                       |
| HP StorageWorks Ultrium 920 (Ultrium 3 Half Height)                               | LTO    | SCSI      | HP*****Ultrium*3-SCSI        | yes                       |
| HP StorageWorks Ultrium 920 (Ultrium 3 Half Height)                               | LTO    | SAS       | HP*****Ultrium*3-SCSI        | yes                       |
| HP StorageWorks Ultrium 960 (Ultrium 3 Full Height)                               | LTO    | SCSI      | HP*****Ultrium*3-SCSI        | yes                       |

For details on Operating System Support, please check [www.hp.com/go/connect](http://www.hp.com/go/connect)

## HP Tape Autoloaders

| Model   | Format        | Slots / Drives | Interface | Inquiry String <sup>6</sup> |
|---|---------------|----------------|-----------|-----------------------------|
| HP SureStore 12000 DAT8 Autoloader<br>(DDS-2 Six Tape Autoloader)         | DAT           | 6/1            | SCSI      | HP*****C1553A               |
| HP SureStore DAT24x6 Autoloader<br>(DDS-3 Six Tape Autoloader)            | DAT           | 6/1            | SCSI      | HP*****C1557A               |
| HP SureStore DAT40x6 Autoloader<br>(DDS-4 Six Tape Autoloader)            | DAT           | 6/1            | SCSI      | HP*****C5713A               |
| HP StorageWorks DAT72x6 Autoloader<br>(DAT72 Six Tape Autoloader)         | DAT           | 6/1            | SCSI      | HP*****DAT72x6              |
| HP StorageWorks DAT72x10 Autoloader<br>(DAT72 Ten Tape Autoloader)        | DAT           | 10/1           | SCSI      | HP*****C7438A               |
| HP StorageWorks VS80 1/8 Autoloader<br>(C9264CB)                          | DLT           | 8 / 1          | SCSI      | HP*****C9264CB-VS80         |
| HP StorageWorks 1/8 DLT vs80 Autoloader<br>(Library ID : HP C9264CB-VS80) | DLT           | 8 / 1          | SCSI      | HP*****C9264CB-VS80         |
| HP SureStore 1/9 Autoloader (C71451)<br>DLT, Ultrium                      | LTO / DLT     | 9 / 1          | SCSI      | HP*****C7145-8000           |
| HP StorageWorks 1/8 Autoloader (ThinStor)<br>DLT, Ultrium                 | LTO /<br>SDLT | 8 / 1          | SCSI      | HP*****ThinStor*AutoLdr     |
| HP StorageWorks 1/8 G2 Tape Autoloader                                    | LTO           | 8 / 1          | SCSI      | HP*****1x8*G2*AutoLdr       |

## HP Tape Library Systems<sup>7</sup>

| Model                   | Format | Interface                     | Inquiry String | OBDR Support |
|-------------------------|--------|-------------------------------|----------------|--------------|
| HP StorageWorks MSL2024 | LTO    | SCSI, SAS                     | HP MSL G3      | No           |
| HP StorageWorks MSL2024 | LTO    | Fibre<br>Channel <sup>8</sup> | HP MSL G3      | No           |
| HP StorageWorks MSL4048 | LTO    | SCSI, SAS                     | HP MSL G3      | No           |

<sup>6</sup> The "\*" character denotes a space in the inquiry string

<sup>7</sup> Please see Customer Advisory C00743086 for more details - HP Data Protector Express Version 3.1 may generate a tape mount request when using two drive versions of HP StorageWorks MSL 2024

<sup>8</sup> Peer to peer connection supported (no device sharing). Currently no BMDR support of the host system.

## HP Virtual Tape Library Systems

| <b>Model</b>                          | <b>Format Emulation</b> | <b>Interface</b> | <b>Inquiry String</b>  | <b>OBDR Support</b> |
|---------------------------------------|-------------------------|------------------|--|---------------------|
| HP StorageWorks VLS 1000 Series       | LTO                     | iSCSI            | HP VLS 1000  | No                  |
| HP StorageWorks D2D 110 Backup System | LTO                     | iSCSI            | HP D2DBS (loader)<br>HP ThinStor AutoLdr (loader)<br>HP Ultrium 2-SCSI | No                  |
| HP StorageWorks D2D 120 Backup System | LTO                     | iSCSI            | HP D2DBS (loader)<br>HP ThinStor AutoLdr (loader)<br>HP Ultrium 2-SCSI | No                  |

## HP CD & DVD Writers

| Model  | Inquiry String <sup>9</sup> | Interface         | Supported media (write)                   | Operating System(s)    |
|--|-----------------------------|-------------------|---|------------------------|
| HP DVD Movie Writer DC4000                               | HP DC4000                   | USB               | CD-R, CD-RW, DVD+R, DVD-R, DVD+RW, DVD-RW | Windows, Linux, Novell |
| HP 24X Combo Drive (DC364B)                              | HL-DT-ST RW DVD GCC-4241N   | USB <sup>10</sup> | CD-R, CD-RW, DVD-ROM                      | Windows, Linux, Novell |
| HP DVD+R/RW 8X Slim (383975-B21)                         | TEAC DVD-W28EW              | IDE               | CD-R, CD-RW, DVD+R, DVD-R, DVD+RW, DVD-RW | Windows, Linux, Novell |
| HP CD-RW/DVD-ROM 48X Combo Drive Option Kit (331346-B21) | HL-DT-ST RW DVD GCC-4482B   | IDE               | CD-R, CD-RW                               | Windows, Linux, Novell |
| HP 16X Half Height DVD+RW Drive (383974-B21)             | HL-DT-ST DVDRRW GWA-4166B   | IDE               | CD-R, CD-RW, DVD-R, DVD+R, DVD+RW, DVD-RW | Windows, Linux, Novell |
| HL-DT-ST   | HL-DT-ST GCC-4480B          | IDE               | CD-R, CD-RW                               | Windows, Linux, Novell |
| HP / TEAC  | TEAC DW-224E                | IDE               | CD-R, CD-RW                               | Windows, Linux, Novell |
| HP UltraSpeed +  | GCE-8487B                   | IDE               | CD-R, CD-RW                               | Windows, Linux, Novell |
| HL-DT-ST DVDRW   | GWA-4166B                   | IDE               | CD-R, CD-RW, DVD-R, DVD+R, DVD-RW         | Windows, Linux, Novell |
| LITE-ON COMBO SOHC-4836K                                 | LITE-ON COMBO SOHC-4836K    | IDE               | CD-R, CR-RW                               | Windows, Linux, Novell |

<sup>9</sup> With Data Protector Express running the Inquiry String is seen by selecting the device (Favorites/Devices) then opening the diagnostics window (Commands/Diagnostics) and looking at the Device Inquiry Information.

<sup>10</sup> Requires USB cradle DC373B.