

# DRAFT 4



## hp OpenView storage data protector 6.1 Platform & Integration Support Matrices

Version: Draft 4

Date: December 1, 2007

NOTE: For the following Data Protector components, only those combinations of Data Protector component and Operating Systems are supported for which the corresponding Operating System version is supported by the respective vendors. The supported operating system "Windows 2003" includes support for Windows 2003 R2 and Windows Storage Server 2003 R2 where applicable.

### supported operating systems

Data Protector component	Supported operating systems
Cell Manager	<ul style="list-style-type: none"><li>Windows XP PRO (32-bit)</li><li>Windows 2000</li><li>Windows 2003 (32-bit)</li><li>Windows 2003 (64-bit) (x64)</li><li>Windows 2008 (32-bit)</li><li>Windows 2008 (64-bit) (x64)</li><li>HP-UX (PA-RISC) - 11.11<sup>2,3</sup>, 11.23<sup>2,3</sup>, 11.31<sup>2,3</sup></li><li>HP-UX (Itanium) - 11.23<sup>2,3</sup>, 11.31<sup>2,3</sup></li><li>Solaris (SPARC) 8, 9, 10</li><li>Redhat Enterprise Linux (RHEL) <sup>5</sup> 4.0, 5.0 (64-bit) (x64)</li><li>SuSE Linux Enterprise Server 9, 10 (64-bit) (x64)</li></ul>
Installation Server	<ul style="list-style-type: none"><li>Windows XP PRO (32-bit)</li><li>Windows 2000</li><li>Windows 2003 (32-bit)</li><li>Windows 2003 (64-bit) (x64)</li><li>Windows 2008 (32-bit)</li><li>Windows 2008 (64-bit) (x64)</li><li>HP-UX (PA-RISC) - 11.11<sup>2,3</sup>, 11.23<sup>2,3</sup>, 11.31<sup>2,3</sup></li><li>HP-UX (Itanium) - 11.23<sup>2,3</sup>, 11.31<sup>2,3</sup></li><li>Solaris (SPARC) 8, 9, 10</li><li>Redhat Enterprise Linux (RHEL) <sup>5</sup> 4.0, 5.0 (64-bit) (x64)</li><li>SuSE Linux Enterprise Server 9, 10 (64-bit) (x64)</li></ul>
Manager-of-Managers (MoM)	<ul style="list-style-type: none"><li>Windows 2000</li><li>Windows XP PRO (32-bit)</li><li>Windows 2003 (32-bit)</li><li>Windows 2003 (64-bit) (x64)</li><li>Windows 2008 (32-bit)</li><li>Windows 2008 (64-bit) (x64)</li><li>HP-UX (PA-RISC) - 11.0<sup>2</sup>, 11.11<sup>2,3</sup>, 11.23<sup>2,3</sup>, 11.31<sup>2,3</sup></li><li>Solaris (SPARC) 8, 9, 10</li><li>HP-UX (Itanium) - 11.23<sup>2,3,6</sup>, 11.31<sup>2,3,6</sup></li><li>Redhat Enterprise Linux (RHEL) <sup>5</sup> 4.0, 5.0 (64-bit) (x64) <sup>6</sup></li><li>SuSE Linux Enterprise Server 9, 10 (64-bit) (x64) <sup>6</sup></li></ul>
Backup Device Server (media agent), including robotic control	<ul style="list-style-type: none"><li>Windows 2000</li><li>Windows XP PRO (32-bit)</li><li>Windows XP (64-bit) (Itanium and x64)</li></ul>

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- Windows Vista (32-bit)
- Windows Vista (64-bit) (x64)
- Windows 2003 (32-bit)
- Windows 2003 (64-bit) (Itanium and x64)
- Windows 2008 (32-bit)
- Windows 2008 (64-bit) (Itanium and x64)
- Novell NetWare 6.5<sup>1</sup>
- Novell Open Enterprise Server for Linux
- HP-UX (PA-RISC) – 11.11<sup>2, 3</sup>, 11.23<sup>2, 3</sup>, 11.31<sup>2, 3</sup>
- HP-UX (Itanium) – 11.23<sup>2, 3</sup>, 11.31<sup>2, 3</sup>
- Tru64 5.xx
- OpenVMS 7.3-2<sup>1</sup>, 8.2<sup>1</sup>, 8.2-1<sup>1</sup>, 8.3<sup>1</sup> (Alpha)
- OpenVMS 8.2<sup>1</sup>, 8.2-1<sup>1</sup>, 8.3<sup>1</sup> (Itanium)
- Sun Solaris (SPARC)<sup>4</sup> 8, 9, 10
- MPE/iX 6.5<sup>1</sup>, 7.0<sup>1</sup>, 7.5<sup>1</sup>
- Linux (32-bit): Redhat Enterprise Linux (RHEL)<sup>5</sup> 2.1, 3.0, 4.0, 5.0  
SuSE Linux Enterprise Server (SLES) 8, 9, 10  
Oracle Enterprise Linux 5.0  
United Linux 1.0  
Debian Linux 4.0
- Linux (64-bit): Red Hat Enterprise Linux (RHEL)<sup>5</sup> 2.1 (Itanium)  
Red Hat Enterprise Linux (RHEL)<sup>5</sup> 3.0 (Itanium)  
Red Hat Enterprise Linux (RHEL)<sup>5</sup> 4.0 (Itanium and x64)  
Red Hat Enterprise Linux (RHEL)<sup>5</sup> 5.0 (Itanium and x64)  
SuSE Linux Enterprise Server (SLES) 8 (Itanium)  
SuSE Linux Enterprise Server (SLES) 9 (Itanium and x64)  
SuSE Linux Enterprise Server (SLES) 10 (Itanium and x64)  
Oracle Enterprise Linux 5.0  
United Linux 1.0 (Itanium)  
Debian Linux 4.0 (Itanium)

Backup Device Server (media agent), without robotic control

The above list plus the following:

- IBM AIX 5.x, 6.x
- SNI Sinix 5.4.5
- SCO OpenServer 6.x

Backup Agents (disk agents)

- Windows 2000
- Windows XP HE<sup>1</sup>
- Windows XP PRO (32 bit)
- Windows XP (64-bit) (Itanium and x64)
- Windows Vista (32-bit)
- Windows Vista (64-bit) (x64)
- Windows 2003 (32-bit)
- Windows 2003 (64-bit) (Itanium and x64)
- Windows 2008 (32-bit)
- Windows 2008 (64-bit) (Itanium and x64)
- Novell NetWare 6.5<sup>1</sup>
- Novell Open Enterprise Server for Linux
- HP-UX (PA-RISC) – 11.11<sup>2, 3</sup>, 11.23<sup>2, 3</sup>, 11.31<sup>2, 3</sup>
- HP-UX (Itanium) – 11.23<sup>2, 3</sup>, 11.31<sup>2, 3</sup>
- HP MPE/iX 6.5<sup>1</sup>, 7.0<sup>1</sup>, 7.5<sup>1</sup>
- Sun Solaris (SPARC)<sup>4</sup> 8, 9, 10
- Sun Solaris<sup>4</sup> 10 (x64)
- IBM AIX 5.x, 6.x
- SGI IRIX 6.5
- SNI Sinix 5.4.5

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	<ul style="list-style-type: none"><li>• SCO OpenServer 6.x</li><li>• SCO UnixWare 7.x</li><li>• Tru64 Unix 5.xx</li><li>• Open VMS 7.3-2<sup>1</sup>, 8.2<sup>1</sup>, 8.2-1<sup>1</sup>, 8.3<sup>1</sup> (Alpha &amp; Itanium)</li><li>• OpenVMS 8.2<sup>1</sup>, 8.2-1<sup>1</sup>, 8.3<sup>1</sup> (Itanium)</li><li>• Linux (32-bit): Red Hat Enterprise Linux (RHEL) <sup>5</sup> 2.1, 3.0, 4.0 and 5.0 SuSE Linux Enterprise Server (SLES) 8, 9, 10 United Linux 1.0 Debian Linux 4.0</li><li>• Linux (64-bit): Red Hat Enterprise Linux (RHEL) <sup>5</sup> 2.1 (Itanium), 3.0 (Itanium) Red Hat Enterprise Linux (RHEL) <sup>5</sup> 4.0 (Itanium and x64) Red Hat Enterprise Linux (RHEL) <sup>5</sup> 5.0 (Itanium and x64) SuSE Linux Enterprise Server (SLES) 8 (Itanium) SuSE Linux Enterprise Server (SLES) 9 (Itanium and x64) SuSE Linux Enterprise Server (SLES) 10 (Itanium and x64) United Linux 1.0 (Itanium) Debian Linux 4.0 (Itanium)</li><li>• Additional UNIX platforms via NFS (on unix systems)</li><li>• Additional platforms via shared disks</li></ul>
Data Protector Internal Database (IDB) Backup Disk Agent (on Cell Manager) using AES Encryption	<ul style="list-style-type: none"><li>• Windows XP PRO (32-bit)</li><li>• Windows 2000</li><li>• Windows 2003 (32-bit)</li><li>• Windows 2003 (64-bit) (x64)</li><li>• Windows 2008 (32-bit)</li><li>• Windows 2008 (64-bit) (x64)</li><li>• HP-UX (PA-RISC) - 11.11 <sup>3</sup>, 11.23 <sup>3</sup>, 11.31<sup>2,3</sup></li><li>• HP-UX (Itanium) - 11.23 <sup>3</sup>, 11.31<sup>2,3</sup></li><li>• Solaris (SPARC) 8, 9, 10</li><li>• SuSE Linux Enterprise Server 9, 10 (64-bit) (x64)</li><li>• RedHat Enterprise Linux 4.0, 5.0 (64-bit) (x64)</li></ul>
Volume Backup or Restore Disk Agent Raw Disk Backup or Restore Disk Agent (disk agents) using AES Encryption	<ul style="list-style-type: none"><li>• Windows XP PRO</li><li>• Windows Vista (32-bit)</li><li>• Windows Vista (64-bit) (x64)</li><li>• Windows 2003 (32-bit)</li><li>• Windows 2003 (64-bit) (Itanium and x64)</li><li>• Windows 2008 (32-bit)</li><li>• Windows 2008 (64-bit) (Itanium and x64)</li><li>• HP-UX (PA-RISC) - 11.11 <sup>2,3</sup>, 11.23 <sup>2,3</sup>, 11.31<sup>2,3</sup></li><li>• HP-UX (Itanium) - 11.23 <sup>2,3</sup>, 11.31<sup>2,3</sup></li><li>• Sun Solaris (SPARC) <sup>4</sup> 8, 9, 10</li><li>• Linux (32-bit): Red Hat Enterprise Linux (RHEL) <sup>5</sup> 2.1, 3.0, 4.0 and 5.0 SuSE Linux Enterprise Server (SLES) 8, 9, 10</li><li>• Linux (64-bit): Red Hat Enterprise Linux (RHEL) <sup>5</sup> 2.1 (Itanium), 3.0 (Itanium) Red Hat Enterprise Linux (RHEL) <sup>5</sup> 4.0 (Itanium and x64) Red Hat Enterprise Linux (RHEL) <sup>5</sup> 5.0 (Itanium and x64) SuSE Linux Enterprise Server (SLES) 8 (Itanium) SuSE Linux Enterprise Server (SLES) 9 (Itanium and x64) SuSE Linux Enterprise Server (SLES) 10 (Itanium and x64)</li></ul>
Backup Device Server (media agent), including robotic control using LTO-4 drive internal encryption (AES-GCM)	<ul style="list-style-type: none"><li>• Windows 2000</li><li>• Windows XP PRO (32-bit)</li><li>• Windows XP (64-bit) (Itanium and x64)</li><li>• Windows Vista (32-bit)</li><li>• Windows Vista (64-bit) (x64)</li><li>• Windows 2003 (32-bit)</li><li>• Windows 2003 (64-bit) (Itanium and x64)</li></ul>

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- Windows 2008 (32-bit)
- Windows 2008 (64-bit) (Itanium and x64)
- HP-UX (PA-RISC) – 11.11<sup>2, 3</sup>, 11.23<sup>2, 3</sup>, 11.31<sup>2, 3</sup>
- HP-UX (Itanium) – 11.23<sup>2, 3</sup>, 11.31<sup>2, 3</sup>
- Linux (32-bit): Red Hat Enterprise Linux (RHEL)<sup>5</sup> 2.1, 3.0, 4.0 and 5.0  
SuSE Linux Enterprise Server (SLES) 8, 9 and 10
- Linux (64-bit): Red Hat Enterprise Linux (RHEL)<sup>5</sup> 2.1 (Itanium)  
Red Hat Enterprise Linux (RHEL)<sup>5</sup> 3.0 (Itanium)  
Red Hat Enterprise Linux (RHEL)<sup>5</sup> 4.0 (Itanium and x64)  
Red Hat Enterprise Linux (RHEL)<sup>5</sup> 5.0 (Itanium and x64)  
SuSE Linux Enterprise Server (SLES) 8 (Itanium)  
SuSE Linux Enterprise Server (SLES) 9 (Itanium and x64)  
SuSE Linux Enterprise Server (SLES) 10 (Itanium and x64)

- <sup>1</sup> Push installation not possible, need to be installed locally
- <sup>2</sup> NIS+ is supported in a DNS environment
- <sup>3</sup> HP-UX 11.11 is HP-UX 11i version 1.0  
HP-UX 11.23 is HP-UX 11i version 2.0  
HP-UX 11.31 is HP-UX 11i version 3.0
- <sup>4</sup> For Solaris – SunOS version compatibility, please refer to the Sun website.
- <sup>5</sup> Includes support for Redhat Enterprise Linux Advanced Workstation and Enterprise Server if applicable
- <sup>6</sup> MoM GUI is not supported on HP-UX 11.23 (Itanium) and Linux (x64).
- <sup>7</sup> In case of Reflection X, version 9 & above are supported.

## graphical user interface support

GUI component	supported operating system
Legacy Graphical User Interface <sup>5</sup>	<ul style="list-style-type: none"> <li>• Windows XP HE<sup>1</sup></li> <li>• Windows XP PRO (32-bit)</li> <li>• Windows Vista (32-bit)</li> <li>• Windows XP 64-bit (Itanium and x64)</li> <li>• Windows 2000</li> <li>• Windows 2003 (32-bit)</li> <li>• Windows 2003 (64-bit) (Itanium and x64)</li> <li>• Windows 2008 (32-bit)</li> <li>• Windows 2008 (64-bit) (Itanium and x64)</li> <li>• HP-UX (PA-RISC) – 11.11<sup>2, 3</sup>, 11.23<sup>2, 3</sup></li> <li>• Solaris 8</li> </ul>
Java Graphical User Interface Client	<ul style="list-style-type: none"> <li>• Windows XP PRO (32-bit)</li> <li>• Windows Vista (32-bit)</li> <li>• Windows Vista (64-bit) (x64)</li> <li>• Windows 2000</li> <li>• Windows 2003 (32-bit)</li> <li>• Windows 2003 (64-bit) (x64)</li> <li>• Windows 2008 (32-bit)</li> <li>• Windows 2008 (64-bit) (x64)</li> <li>• HP-UX (PA-RISC) – 11.11<sup>2, 3</sup>, 11.23<sup>2, 3</sup>, 11.31<sup>2, 3</sup></li> <li>• HP-UX (Itanium) – 11.23<sup>2, 3</sup>, 11.31<sup>2, 3</sup></li> <li>• Solaris (SPARC) 9, 10</li> <li>• Redhat Enterprise Linux (RHEL)<sup>4</sup> 4.0, 5.0 (64-bit) (x64)</li> <li>• SuSE Linux Enterprise Server 9, 10 (64-bit) (x64)</li> </ul>

<sup>1</sup>	Push installation not possible, need to be installed locally
<sup>2</sup>	NIS+ is supported in a DNS environment
<sup>3</sup>	HP-UX 11.11 is HP-UX 11i version 1.0.

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	HP-UX 11.23 is HP-UX 11i version 2.0 HP-UX 11.31 is HP-UX 11i version 3.0
4	Includes support for Redhat Enterprise Linux Advanced Workstation and Enterprise Server if applicable
5	In case of Reflection X, version 9 & above are supported.

## Platform restrictions for supported operating systems

operating system	supported processor platform	
HP-UX	PA-RISC	(HP-UX 11.11, 11.23, 11.31)
	Itanium	(HP-UX 11.23, 11.31)
Windows	x86 and x86_64	(for 32-bit Windows)
	Itanium and x86_64	(for 64-bit Windows)
Linux	x86 and x86_64	(for 32-bit Linux)
	Itanium and x86_64	(for 64-bit Linux)
Sun Solaris	SPARC	
	X86_64	(for Solaris 10 Disk Agent only)
OpenVMS	Alpha and Itanium	

NOTE: For the following integration matrix, only those combinations of applications and Operating Systems are supported that are supported by the respective vendors.

## supported online database and application integrations

databases	supported versions	
Oracle (32-bit) (Including Oracle Data Guard/Standby Database support for Oracle 9i and 10g)	• Oracle 8.1.7/ Recovery Manager:	HP-UX 11.11(32 & 64-bit) Solaris (SPARC) 8 & 9 (32 & 64-bit) AIX 5.2 Windows 2000
	• Oracle 9i/ Recovery Manager <sup>1</sup> :	Solaris (SPARC) 8 & 9 (32 & 64-bit) RHEL Adv. Server <sup>2</sup> 2.1, 3.0, 4.0 SuSE Linux Enterprise Server 8, 9 United Linux 1.0 Windows 2000, Windows 2003 (32-bit)
	• Oracle 10g/ Recovery Manager <sup>1</sup> :	Windows 2000, Windows 2003 (32-bit) RHEL Adv. Server <sup>2</sup> 2.1, 3.0, 4.0, 5.0 SuSE Linux Enterprise Server 8, 9 and 10
	• Oracle 11g/ Recovery Manager <sup>1</sup> :	Windows 2000, Windows 2003 (32-bit) RHEL Adv. Server <sup>2</sup> 3.0, 4.0, 5.0 SuSE Linux Enterprise Server 9 and 10
Oracle (64-bit) (Including Oracle Data Guard/Standby Database support for Oracle 9i and 10g)	• Oracle 8.1.7/ Recovery Manager:	HP-UX 11.11(64-bit) Solaris (SPARC) 8 & 9 (64-bit) AIX 5.2 (64-bit) Tru64 5.xx OpenVMS 7.3-2
	• Oracle 9i/ Recovery Manager <sup>1</sup> :	HP-UX 11.11 (64-bit) HP-UX 11.23 (64-bit) (Itanium & PA-RISC) Solaris (SPARC) 8, 9 & 10 (64-bit) Windows 2003 (64-bit) (Itanium) AIX 5.2 & 5.3 (64-bit) Tru64 5.xx RHEL Adv. Server <sup>2</sup> 2.1 (64-bit) (Itanium) RHEL Adv. Server <sup>2</sup> 3.0 (64-bit) (Itanium) RHEL Adv. Server <sup>2</sup> 4.0 (64-bit) (Itanium and x64)

	<ul style="list-style-type: none"> <li>Oracle 10g/ Recovery Manager<sup>1</sup>:</li> <li>Oracle 11g/ Recovery Manager<sup>1</sup>:</li> <li>Oracle 10g/ Recovery Manager<sup>1</sup>:</li> </ul>	<p>SuSE Linux Ent. Server 8 (64-bit) (Itanium)            SuSE Linux Ent. Server 9 (64-bit) (Itanium and x64)            United Linux 1.0 (64-bit) (Itanium)            OpenVMS 7.3-2            HP-UX 11.11 (64-bit)            HP-UX 11.23 (64-bit) (Itanium &amp; PA-RISC)            Solaris (SPARC) 8, 9 &amp; 10 (64-bit)            Windows 2003 (64-bit) (Itanium and x64)            AIX 5.x, 6.x (64-bit)            OpenVMS 8.x (Alpha and Itanium)            Tru64 5.xx            RHEL Adv. Server<sup>2</sup> 2.1 (64-bit) (Itanium)            RHEL Adv. Server<sup>2</sup> 3.0 (64-bit) (Itanium)            RHEL Adv. Server<sup>2</sup> 4.0 (64-bit) (Itanium and x64)            RHEL Adv. Server<sup>2</sup> 5.0 (64-bit) (Itanium and x64)            SuSE Linux Ent. Server 8 (64-bit) (Itanium)            SuSE Linux Ent. Server 9 (64-bit) (Itanium and x64)            SuSE Linux Ent. Server 10 (64-bit) (x64)            United Linux 1.0 (64-bit) (Itanium)            HP-UX 11.11 (64-bit)            HP-UX 11.23 (64-bit) (Itanium &amp; PA-RISC)            HP-UX 11.31 (64-bit) (Itanium &amp; PA-RISC)            Solaris (SPARC) 9 &amp; 10 (64-bit)            Windows 2003 (64-bit) (Itanium and x64)            AIX 5.x, 6.x (64-bit)            OpenVMS 8.x (Alpha and Itanium)            Tru64 5.xx            RHEL Adv. Server<sup>2</sup> 2.1 (64-bit) (Itanium)            RHEL Adv. Server<sup>2</sup> 3.0 (64-bit) (Itanium)            RHEL Adv. Server<sup>2</sup> 4.0 (64-bit) (Itanium and x64)            RHEL Adv. Server<sup>2</sup> 5.0 (64-bit) (Itanium and x64)            SuSE Linux Ent. Server 8 (64-bit) (Itanium)            SuSE Linux Ent. Server 9 (64-bit) (Itanium and x64)            SuSE Linux Ent. Server 10 (64-bit) (x64)            United Linux 1.0 (64-bit) (Itanium)            HP-UX 11.23 (64-bit) (Itanium)            HP-UX 11.31 (64-bit) (Itanium)</p>
<p>Oracle (64-bit) Using AES Encryption</p>		
<p>Informix (32-bit)</p>	<ul style="list-style-type: none"> <li>Informix 7.31:</li> <li>Informix IDS 9.40:</li> <li>Informix IDS 10:</li> <li>Informix IDS 11:</li> </ul>	<p>HP-UX 11.11 (32 &amp; 64-bit)            Solaris (SPARC) 8 (32 &amp; 64-bit)            Windows 2000            HP-UX 11.11 (32 &amp; 64-bit)            Solaris (SPARC) 8 &amp; 9 (32 &amp; 64-bit)            Windows 2000, 2003 (32-bit)            HP-UX 11.11 (32 &amp; 64-bit)            Solaris (SPARC) 8 &amp; 9 (32 &amp; 64-bit)            Windows 2000, 2003 (32-bit)            HP-UX 11.11 (32 &amp; 64-bit)            Solaris (SPARC) 9 &amp; 10 (32 &amp; 64-bit)            Windows 2000, 2003 (32-bit)</p>
<p>Informix (64-bit)</p>	<ul style="list-style-type: none"> <li>Informix 7.31:</li> <li>Informix IDS 9.40:</li> </ul>	<p>HP-UX 11.11 (64-bit)            Solaris SPARC) 8 (64-bit)            HP-UX 11.11 (64-bit)            HP-UX 11.23 (64-bit) (Itanium &amp; PA-RISC)            Solaris (SPARC) 8 &amp; 9 (64-bit)            Tru64 5.xx</p>

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	<ul style="list-style-type: none"> <li>Informix IDS 10:</li> <li>Informix IDS 11:</li> </ul>	<p>AIX 5.2 &amp; 5.3 (64-bit)            HP-UX 11.11 (64-bit)            HP-UX 11.23 (64-bit) (Itanium &amp; PA-RISC)            HP-UX 11.31 (64-bit) (Itanium &amp; PA-RISC)            Solaris (SPARC) 8 &amp; 9 (64-bit)            Tru64 5.xx            AIX 5.x, 6.x (64-bit)            RHEL Adv. Server 4.0 (64-bit) (x64)            SuSE Linux Ent. Server 9 (64-bit) (x64)</p> <p>HP-UX 11.11 (64-bit)            HP-UX 11.23 (64-bit) (Itanium &amp; PA-RISC)  <b>HP-UX 11.31 (64-bit) (Itanium)</b>            Solaris (SPARC) 9 &amp; 10 (64-bit)            AIX 5.x, 6.x (64-bit)            RHEL Adv. Server 4.0, 5.0 (64-bit) (x64)            SuSE Linux Ent. Server 9, 10 (64-bit) (x64)</p>
Sybase (32-bit)	<ul style="list-style-type: none"> <li>Sybase Adaptive Server Enterprise 12.5.x:</li> </ul>	<p>HP-UX 11.11 (32 &amp; 64-bit)            Solaris 8 (32 &amp; 64-bit)            Windows 2000</p>
Sybase (64-bit)	<ul style="list-style-type: none"> <li>Sybase Adaptive Server Enterprise 12.5.x:</li> <li>Sybase Adaptive Server Enterprise 15.x:</li> </ul>	<p>HP-UX 11.11 (64-bit)            HP-UX 11.23 (Itanium)            Solaris (SPARC) 8, 9 and 10 (64-bit)            HP-UX 11.23 (Itanium &amp; PA-RISC)            Solaris (SPARC) 8, 9 and 10 (64-bit)</p>
Microsoft SQL Server (32-bit)	<ul style="list-style-type: none"> <li>MS SQL Server 7.0:</li> <li>MS SQL Server 2000:</li> <li>MS SQL Server 2005:</li> </ul>	<p>Windows 2000            Windows 2000            Windows 2003 (32-bit)            Windows 2000            Windows 2003 (32-bit)</p>
Microsoft SQL Server (64-bit)	<ul style="list-style-type: none"> <li>MS SQL Server 2000:</li> <li>MS SQL Server 2005:</li> </ul>	<p>Windows 2003 (64-bit) (Itanium)            Windows 2003 (64-bit) (Itanium and x64)<sup>7</sup></p>
Microsoft SQL Server (32-bit) Using AES Encryption	<ul style="list-style-type: none"> <li>MS SQL Server 2005:</li> </ul>	<p>Windows 2000            Windows 2003 (32-bit)</p>
Microsoft SQL Server (64-bit) Using AES Encryption	<ul style="list-style-type: none"> <li>MS SQL Server 2005:</li> </ul>	<p>Windows 2003 (64-bit) (Itanium and x64)<sup>7</sup></p>
MS Share Point Portal Server	<ul style="list-style-type: none"> <li>MS SPP Server 2003:</li> </ul>	<p>Windows 2003 (32-bit)</p>
Microsoft Exchange Server (including Single Mailbox and Single Folder Restore)	<ul style="list-style-type: none"> <li>MS Exchange Server 2000:</li> <li>MS Exchange Server 2003:</li> <li>MS Exchange Server 2007:</li> </ul>	<p>Windows 2000            Windows 2000 SP3            Windows 2003 (32-bit)            Windows 2003 (64-bit) (x64)</p>
IBM DB2 (32-bit)	<ul style="list-style-type: none"> <li>IBM DB2 UDB 8.1:</li> <li>IBM DB2 UDB 8.2:</li> <li>IBM DB2 UDB 9:</li> </ul>	<p>HP-UX 11.11 (32 &amp; 64-bit)<sup>3</sup>            AIX 5.2 &amp; 5.3 (32 &amp; 64-bit)            RHEL Adv. Server<sup>2</sup> 2.1, 3.0, 4.0 (32-bit)<sup>3</sup>            SuSE Linux Enterprise Server 8, 9 (32-bit)<sup>3</sup>            Windows 2000, 2003 (32-bit)<sup>3</sup></p> <p>RHEL Adv. Server<sup>2</sup> 2.1, 3.0, 4.0 (32-bit)<sup>3</sup>            SuSE Linux Enterprise Server 8, 9 (32-bit)<sup>3</sup>            Windows 2000, 2003 (32-bit)<sup>3</sup></p> <p>RHEL Adv. Server<sup>2</sup> 3.0, 4.0, 5.0 (32-bit)<sup>3</sup>            SuSE Linux Enterprise Server 8, 9, 10 (32-bit)<sup>3</sup>            Windows 2000, 2003 (32-bit)<sup>3</sup>            AIX 5.x, 6.x (32 &amp; 64-bit)</p>

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IBM DB2 (64-bit)	<ul style="list-style-type: none"> <li>• IBM DB2 UDB 8.1:</li> <li>• IBM DB2 UDB 8.2:</li> <li>• IBM DB2 UDB 9:</li> </ul>	<p>HP-UX 11.11 (64-bit)<sup>3</sup>  AIX 5.2 &amp; 5.3 (64-bit)</p> <p>HP-UX 11.11 (64-bit), 11.23 (Itanium)<sup>3</sup>  AIX 5.2 &amp; 5.3 (64-bit)</p> <p>HP-UX 11.11 (64-bit)  HP-UX 11.23 (Itanium and PA-RISC)<sup>3</sup>  HP-UX 11.31 (Itanium and PA-RISC)<sup>3</sup>  AIX 5.x, 6.x (64-bit)  RHEL Adv. Server<sup>2</sup> 4.0 (64-bit) (x64)<sup>3</sup>  SuSE Linux Enterprise Server 9 (64-bit) (x64)<sup>3</sup></p>
Lotus Notes, Lotus Domino (including Single Mailbox backup & Restore)	<ul style="list-style-type: none"> <li>• Lotus Domino/Notes 6.5.x:</li> <li>• Lotus Domino/Notes R7</li> <li>• Lotus Domino/Notes R8</li> </ul>	<p>Solaris (SPARC) 8  Windows 2000, Windows 2003 (32-bit)  AIX 5.x</p> <p>Windows 2003 (32-bit)  AIX 5.x</p> <p>Windows 2003 (32-bit)  AIX 5.x, 6.x</p>
SAPDB / MaxDB (Online integration based on 'Backint for SAPDB / MaxDB')	<ul style="list-style-type: none"> <li>• SAPDB version 7.4x:</li> <li>• MaxDB version 7.5:</li> <li>• MaxDB version 7.6:</li> </ul>	<p>HP-UX 11.11 (32 &amp; 64-bit)  Windows 2000 &amp; 2003 (32-bit)  RHEL Adv. Server<sup>2</sup> 2.1, 3.0 (32-bit)  SuSE Linux Enterprise Server 8 (32-bit)</p> <p>HP-UX 11.11 (32 &amp; 64-bit)  HP-UX 11.23 (PA-RISC &amp; Itanium)  Windows 2000 &amp; 2003 (32-bit)  SuSE Linux Enterprise Server 8, 9 (32-bit)  RHEL Adv. Server<sup>2</sup> 2.1, 3.0 (32-bit)</p> <p>HP-UX 11.11 (32 &amp; 64-bit)  HP-UX 11.23 (PA-RISC &amp; Itanium)  HP-UX 11.3.1 (PA-RISC &amp; Itanium)  Windows 2000 &amp; 2003 (32-bit)  SuSE Linux Enterprise Server 9, 10 (32-bit)  RHEL Adv. Server<sup>2</sup> 4.0, 5.0 (32-bit)  SuSE Linux Ent. Server 9 (64-bit) (Itanium and x64)  SuSE Linux Ent. Server 10 (64-bit) (Itanium and x64)  RHEL Adv. Server<sup>2</sup> 4.0 (64-bit) (Itanium and x64)  RHEL Adv. Server<sup>2</sup> 5.0 (64-bit) (Itanium and x64)</p>
SAP <sup>5</sup> (32-bit)	<ul style="list-style-type: none"> <li>• SAP R/3 4.5, using RMAN mode:</li> <li>• SAP R/3 4.5, using backint mode:</li> <li>• SAP R/3 4.6x, using RMAN mode:</li> <li>• SAP R/3 4.6x, using backint mode</li> <li>• SAP 4.7, using backint &amp; RMAN mode:</li> <li>• SAP Brtools 6.10, using backint &amp; RMAN mode</li> <li>• SAP Brtools 6.20, using backint &amp; RMAN mode</li> </ul>	<p>Windows 2000</p> <p>Solaris (SPARC) 8 (32 &amp; 64-bit)</p> <p>HP-UX 11.11 (32 &amp; 64-bit)  Windows 2000  Solaris (SPARC) 8 (32 &amp; 64-bit)  HP-UX 11.11 (32 &amp; 64-bit)  AIX 5.2  Solaris (SPARC) 8 (32 &amp; 64-bit)  Windows 2000</p> <p>Windows 2000, Windows 2003 (32-bit)  SuSE Linux Enterprise server 8, 9, 10  RHEL Adv. Server<sup>2</sup> 2.1, 3.0, 4.0, 5.0</p> <p>Windows 2000, Windows 2003(32-bit)  RHEL Adv. Server<sup>2</sup> 2.1, 3.0</p> <p>Windows 2000, Windows 2003 (32-bit)  SuSE Linux Enterprise server 8, 9  RHEL Adv. Server<sup>2</sup> 2.1, 3.0, 4.0</p>



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	<ul style="list-style-type: none"> <li>• SAP Brtools 6.40, using backint &amp; RMAN mode</li> <li>• SAP Brtools 7.0, using backint &amp; RMAN mode :</li> </ul>	<p>Windows 2000, Windows 2003 (32-bit)            SuSE Linux Enterprise server 8, 9, 10            RHEL Adv. Server<sup>2</sup> 2.1, 3.0, 4.0, 5.0</p> <p>Windows 2000, Windows 2003 (32-bit)            SuSE Linux Enterprise server 8, 9, 10            RHEL Adv. Server<sup>2</sup> 2.1, 3.0, 4.0, 5.0</p>
SAP <sup>5</sup> (64-bit)	<ul style="list-style-type: none"> <li>• SAP R/3 4.6x, using backint mode:</li> <li>• SAP R/3 4.6x, using RMAN mode:</li> <li>• SAP 4.7, using backint &amp; RMAN mode:</li> <li>• SAP Brtools 6.10, using backint &amp; RMAN mode:</li> <li>• SAP Brtools 6.20, using backint &amp; RMAN mode:</li> <li>• SAP Brtools 6.40, using backint &amp; RMAN mode:</li> </ul>	<p>HP-UX 11.11(64-bit)</p> <p>HP-UX 11.11(64-bit)            Solaris SPARC) 8 (64-bit)            Tru64 5.xx (64-bit)</p> <p>HP-UX 11.11(64-bit)            HP-UX 11.23 (64-bit) (Itanium &amp; PA-RISC)            Windows 2003 (64-bit) (Itanium)            Solaris (SPARC) 8 &amp; 9 (64-bit)            Tru64 5.x            AIX 5.x, 6.x (64-bit)            RHEL Adv. Server<sup>2</sup> 2.1 (64-bit) (Itanium)            RHEL Adv. Server<sup>2</sup> 3.0 (64-bit) (Itanium)            RHEL Adv. Server<sup>2</sup> 4.0 (64-bit) (Itanium and x64)            RHEL Adv. Server<sup>2</sup> 5.0 (64-bit) (Itanium and x64)            SuSE Linux Ent. Server 8 (64-bit) (Itanium)            SuSE Linux Ent. Server 9 (64-bit) (Itanium and x64)            SuSE Linux Ent. Server 10 (64-bit) (Itanium and x64)            United Linux 1.0 (64-bit) (Itanium)</p> <p>HP-UX 11.11(64-bit)            Solaris (SPARC) 8 (64-bit)            Tru64 5.xx (64-bit)            AIX 5.x (64-bit)</p> <p>HP-UX 11.11(64-bit)            HP-UX 11.23 (64-bit) (Itanium &amp; PA-RISC)            Windows 2003 (64-bit) (Itanium)            Solaris (SPARC) 8 &amp; 9 (64-bit)            AIX 5.x, 6.x (64-bit)            Tru64 5.xx (64-bit)            RHEL Adv. Server<sup>2</sup> 2.1 (64-bit) (Itanium)            RHEL Adv. Server<sup>2</sup> 3.0 (64-bit) (Itanium)            RHEL Adv. Server<sup>2</sup> 4.0 (64-bit) (Itanium and x64)            SuSE Linux Ent. Server 8 (64-bit) (Itanium)            SuSE Linux Ent. Server 9 (64-bit) (Itanium and x64)            SuSE Linux Ent. Server 10 (64-bit) (Itanium and x64)            United Linux 1.0 (64-bit) (Itanium)</p> <p>HP-UX 11.11(64-bit)            HP-UX 11.23 (64-bit) (Itanium &amp; PA-RISC)            Windows 2003 (64-bit) (Itanium)            Solaris (SPARC) 8, 9 &amp; 10 (64-bit)            Tru64 5.x            AIX 5.x (64-bit)            RHEL Adv. Server<sup>2</sup> 2.1 (64-bit) (Itanium)            RHEL Adv. Server<sup>2</sup> 3.0 (64-bit) (Itanium)            RHEL Adv. Server<sup>2</sup> 4.0 (64-bit) (Itanium and x64)            SuSE Linux Ent. Server 8 (64-bit) (Itanium)            SuSE Linux Ent. Server 9 (64-bit) (Itanium and x64)            SuSE Linux Ent. Server 10 (64-bit) (Itanium and x64)            United Linux 1.0 (64-bit) (Itanium)</p>

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	<ul style="list-style-type: none"> <li>SAP Brtools 7.0, using backint &amp; RMAN mode:</li> </ul>	HP-UX 11.11(64-bit) HP-UX 11.23 (64-bit) (Itanium & PA-RISC) HP-UX 11.31 (64-bit) (Itanium & PA-RISC) Windows 2003 (64-bit) (Itanium and x64) Solaris (SPARC) 9,10 AIX 5.x, 6.x (64-bit) RHEL Adv. Server <sup>1</sup> 3.0, 4.0, 5.0 (Itanium and x64) SuSE Linux Ent. Server 9, 10 (Itanium and x64)
Baan IV <sup>6</sup>	<ul style="list-style-type: none"> <li>Baan IV on Oracle, Informix, Microsoft SQL Server and Sybase (see versions above)</li> </ul>	

- <sup>1</sup> Oracle 9i, 10g and 11g covers all released versions of Oracle 9i, 10g and 11g e. g. 9.x.x and 10.x.x, 11x.x
- <sup>2</sup> Includes support for Redhat Enterprise Linux Advanced Workstation and Enterprise Server also
- <sup>3</sup> DB2 EEE (Partitioned databases) is not supported.
- <sup>4</sup> In Lotus Domino/Notes R6 (6.0.x), there is a bug in the Domino/Notes backup API. This affects incremental backups, but has been resolved by IBM. IBM provides this fix to their customers on request. The customer can get the fix for their version of R6 from IBM and use it with DP. The customer should open PMR referencing PMR# 66931,004,000 and SPR# WMUH5PJNN4 directly with Lotus Customer Service and mention that a hotfix is required.
- <sup>5</sup> Data Protector uses the official SAP backup/restore API (BRTTOOLS), which is available only in conjunction with the Oracle database. Therefore, Data Protector support is only dependent on the SAP Brtools version (as supported by SAP in combination with various SAP Kernels) and not on the SAP Kernel version.
- <sup>6</sup> Baan users with Oracle, Informix, Microsoft SQL Server or Sybase databases can back up their application data by following the instructions for the integration of Data Protector and their database in the HP OpenView Storage Data Protector 6.1 Integration Guide.
- <sup>7</sup> SQL server hotfix Q912021 is required for this support

## supported zero downtime solutions<sup>5</sup>

array	type supported
HP StorageWorks XP <sup>1</sup>	<ul style="list-style-type: none"> <li>HP StorageWorks Business Copy XP/Continuous Access XP</li> </ul>
EMC <sup>2</sup>	<ul style="list-style-type: none"> <li>EMC TimeFinder/SRDF</li> </ul>
HP StorageWorks Virtual array <sup>3</sup>	<ul style="list-style-type: none"> <li>HP StorageWorks Business Copy VA</li> </ul>
HP StorageWorks EVA <sup>4</sup>	<ul style="list-style-type: none"> <li>HP StorageWorks Vsnap/ Snapclone/ Snapshots</li> </ul>

- <sup>1</sup> Please refer to the "hp OpenView Storage Data protector 6.1 Zero Downtime (Split-mirror) backup & Instant Recovery support matrix for HP StorageWorks Disk Array XP" for further details on the integration.
- <sup>2</sup> Please refer to the "hp OpenView Storage Data Protector 6.1 EMC split-mirror backup integration support matrix" for further details on the integration.
- <sup>3</sup> Please refer to the "hp OpenView Storage Data Protector 6.1 Zero Downtime Backup & Instant Recovery support matrix for HP StorageWorks Virtual Array" for further details on the integration.
- <sup>4</sup> Please refer to the "hp OpenView Storage Data Protector 6.1 Zero Downtime Backup support matrix for HP StorageWorks Enterprise Virtual Array with SMI-S Agent" for further details on the integration.
- <sup>5</sup> This support is true if Zero Downtime Backup feature is used. If the Zero Downtime backup is not used, then there is no limitation for the supported arrays. In such a case the hardware would be transparent to Data Protector.

## Other supported applications

application agents	supported databases / integrations
HP OpenView Storage Data Protector Open File Manager	<ul style="list-style-type: none"> <li>HP OpenView Storage Data Protector</li> <li>Open File Manager 9.x</li> </ul> Windows 2000 Windows 2003 Windows XP

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		NetWare 6.5
Citrix Metaframe <sup>1</sup>	<ul style="list-style-type: none"> <li>Citrix Meta Frame version 1.00 Service Pack 3</li> </ul>	Windows 2003
Vmware	<ul style="list-style-type: none"> <li>Vmware ESX Server 2.5.x</li> <li>VMware ESX Server 3.x</li> <li>Vmware Virtual Infrastructure 1.x</li> </ul>	
Vmware consolidated Backup	<ul style="list-style-type: none"> <li>VMware ESX Server 3.x</li> </ul>	
HP OpenView Network Node Manager	<ul style="list-style-type: none"> <li>HP OpenView Network Node Manager 6.2</li> <li>HP Open View Network Node Manager 7.01</li> </ul>	Windows 2000 HP-UX 11.11 Solaris 8 and 9
HP Storage Works File Migration Agent	<ul style="list-style-type: none"> <li>FMA Client 2.1</li> </ul>	Windows 2000 Windows 2003 Red Hat Enterprise Linux 3.0 SuSE Linux Enterprise Server 8
HP Integrity Virtual Machine (DP Agents in the Virtual Machine)	<ul style="list-style-type: none"> <li>HP IVM 1.5, 2.0</li> <li>HP IVM 3.0</li> </ul>	HP-UX 11.23 (Itanium) Windows 2003 (Itanium) HP-UX 11.23, 11.31 (Itanium) Windows 2003 (Itanium) Redhat Ent. Linux 4.0 (Itanium)
Microsoft Sharepoint Portal Server	<ul style="list-style-type: none"> <li>MS Sharepoint Portal Server 2003</li> </ul>	Windows 2003
HP VSE (DP agents in the Virtual Machines)	<ul style="list-style-type: none"> <li>HP-UX 11.23 (Itanium) Virtual Machine</li> <li>Windows 2003 (Itanium) Virtual Machine</li> </ul>	

<sup>1</sup> If the Citrix Database is based on one of the Databases for which online integrations is supported, then that integration is used for online backup of the Citrix database. Otherwise Open File Backup should be used for this purpose. In case of backing up the data other than Database, normal Disk Agent should be used. Also Data Protector Cell Manager and Citrix can co-exist on the same server.

Clusters Support: All supported DP components for a platform are supported in Cluster also, unless specifically mentioned.

supported clusters		
cluster software	supported cluster software version	
HP MC/ServiceGuard (including Veritas CFS)	<ul style="list-style-type: none"> <li>HP MC/ServiceGuard 11.xx:</li> <li>HP MC/ServiceGuard 11.xx:</li> <li>HP MC/ServiceGuard for Linux:<sup>1</sup></li> <li>HP MC/ServiceGuard for Linux:<sup>1</sup></li> </ul>	HP-UX 11.11 HP-UX 11.23, 11.31 (PA-RISC & Itanium) Red Hat Ent. Linux 2.1, 3.0, 4.0, 5.0 SuSE Linux Enterprise Server 8, 9, 10
Microsoft Cluster Server	<ul style="list-style-type: none"> <li>Microsoft Cluster Server:</li> <li>Microsoft Majority Node Cluster (Disk Agent support only)</li> </ul>	Windows 2000 Windows 2003 (32-bit) Windows 2003 (64-bit) (Itanium & x64) Windows 2008 (32-bit) Windows 2008 (64-bit) (Itanium & x64) Windows 2003(32-bit) Windows 2003(64-bit) (x64)
Sun cluster	<ul style="list-style-type: none"> <li>Sun Cluster: (Disc Agent Support only)</li> </ul>	Solaris 10 (SPARC)
Tru64 Cluster <sup>2</sup>	<ul style="list-style-type: none"> <li>TruCluster 5.x (Disk Agent, Media Agent, Oracle, SAP:</li> </ul>	Tru64 5.xx

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Veritas Cluster Server	<ul style="list-style-type: none"> <li>Veritas Cluster Server 1.3 (Disk Agent Support only): Solaris 8</li> <li>Veritas Cluster Server 2.0 (Disk Agent Support only): Solaris 8</li> <li>Veritas Cluster Server 3.5 (Disk Agent Support only): Solaris 8</li> <li>Veritas Cluster Server 4.0 (Disk Agent and Oracle): Solaris 8 &amp; 9</li> <li>Veritas Cluster Server 4.1 (Disk Agent and Oracle): Solaris 8, 9 &amp; 10</li> <li>Veritas Cluster Server 4.3 (Disk Agent, Oracle, Exchange 2003): Windows 2003 (32-bit) Solaris 10</li> <li>Veritas Cluster Server 5.0 (Disk Agent): HP-UX 11.23 (Itanium &amp; PA-RISC)</li> </ul>
Netware Cluster	<ul style="list-style-type: none"> <li>Netware Cluster Services 1.7: Netware 6.5</li> </ul>
Novell OES Cluster	<ul style="list-style-type: none"> <li>Novell OES Cluster: Novell OES for Linux</li> </ul>
OpenVMS Cluster <sup>3</sup>	<ul style="list-style-type: none"> <li>OpenVMS Cluster (Disk Agent &amp; Media Agent)</li> </ul>
EFS Clustered Gateway	<ul style="list-style-type: none"> <li>EFS Clustered Gateway (Disk Agent and Media Agent) SuSE Linux Enterprise Server 9</li> </ul>
Polyserve Matrix server	<ul style="list-style-type: none"> <li>Polyserve Matrix Server SuSE Linux Enterprise Server 9 Windows 2003</li> </ul>
GFS Cluster	<ul style="list-style-type: none"> <li>Red Hat Global File System Cluster (Disc Agent support only) RHEL 3.0, 4.0 (32-bit)</li> </ul>

- 1 The document describing the procedure of installing and configuring Data Protector in a MCSG Cluster with Linux is available in Data Protector online help.
- 2 The document describing the procedure of installing and configuring Data Protector in a Tru64 Cluster is available in Data Protector online help.
- 3 Installation & Configuration information (in DP environment) available in *HP OpenView Storage Data Protector Installation and Licensing guide*.

## supported application clusters

software clusters / clustered applications	supported versions / operating systems
Novell GroupWise <sup>1</sup>	<ul style="list-style-type: none"> <li>Novell Netware 6.x</li> <li>Novell OES for Linux</li> </ul>
Oracle 9i RAC (incl. OCFS wherever applicable)	<ul style="list-style-type: none"> <li>Red Hat Enterprise Linux 2.1, 3.0 ( CRS )</li> <li>SuSE Linux Enterprise Server 8, 9</li> <li>HP-UX 11.11, HP-UX 11.23 (with MC/ServiceGuard)</li> <li>Windows 2000, 2003 (using MS Cluster and CRS)</li> <li>Solaris (SPARC) 8 and 9</li> <li>AIX 5.x</li> </ul>
Oracle 10g RAC (incl. OCFS & CRS wherever applicable)	<ul style="list-style-type: none"> <li>Red Hat Enterprise Linux 2.1, 3.0</li> <li>Red Hat Enterprise Linux 4.0, 5.0 (Itanium &amp; x86_64)</li> <li>SuSE Linux Enterprise Server 8, 9 and 10</li> <li>HP-UX 11.11, HP-UX 11.23 (with MC/ServiceGuard)</li> <li>Windows 2000, 2003 (using MS Cluster)</li> <li>Windows 2003 (using Veritas Cluster Server)</li> <li>Solaris (SPARC) 9 and 10</li> <li>AIX 5.x and 6.x</li> </ul>

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Lotus Domino 6 Cluster <sup>1</sup>	<ul style="list-style-type: none"> <li>Windows 2000, Windows 2003 (32-bit)</li> </ul>
IBM DB2 V8 Partitioned Database <sup>2</sup>	<ul style="list-style-type: none"> <li>AIX 5.x (64-bit)</li> </ul>

- <sup>1</sup> This is a whitepaper based solution The whitepaper is available at the following location:  
<http://www.hp.com/support/manuals/> Please select "Storage Software" and the appropriate Data Protection version thereafter.
- <sup>2</sup> To utilize this feature DB2 Fix pack 7 is required. Additional configuration, backup and restore procedures are described in Data Protector documentation.

supported file systems	
operating system	file systems
Windows 2000 <sup>1</sup>	<ul style="list-style-type: none"> <li>NTFS 3.0(Including Image Backup)</li> <li>FAT16, FAT32</li> <li>CIFS</li> </ul>
Windows XP Pro/2003 <sup>1</sup>	<ul style="list-style-type: none"> <li>NTFS 3.1(Including Image Backup)</li> <li>FAT16, FAT32</li> <li>CIFS</li> </ul>
Windows XP 64/2003 <sup>1</sup>	<ul style="list-style-type: none"> <li>NTFS 3.1 (Including Image Backup of MBR disks only)</li> <li>FAT16, FAT32</li> <li>CIFS</li> </ul>
Novell NetWare	<ul style="list-style-type: none"> <li>NetWare FS</li> <li>supported namespaces: MAC, NFS, OS/2 (long namespace), DOS</li> <li>NSS</li> </ul>
HP-UX <sup>1</sup>	<ul style="list-style-type: none"> <li>HFS (Including Rawdisk)</li> <li>NFS</li> <li>LOFS (Loopback FS)</li> <li>VxFS (Including Rawdisk)</li> <li>DCE DFS</li> <li>EVFS (HP-UX 11.23 only/as rawdisc backup)</li> </ul>
Solaris <sup>1</sup>	<ul style="list-style-type: none"> <li>UFS</li> <li>NFS</li> <li>PC FS (MSOS compatible FS)</li> <li>HSFS</li> <li>VxFS</li> <li>Tmp FS</li> <li>LOFS (Loopback FS)</li> <li>ZFS</li> </ul>
IBM AIX <sup>1</sup>	<ul style="list-style-type: none"> <li>AIX physical FS "oaix"</li> <li>JFS (Journaling FS)</li> <li>JFS2</li> </ul>
SGI IRIX <sup>1</sup>	<ul style="list-style-type: none"> <li>EFS (Extent File System)</li> <li>XFS (IRIX Journaling FS)</li> </ul>
SNI Sinix <sup>1</sup>	<ul style="list-style-type: none"> <li>HSFS (High Sierra FS)</li> <li>UFS (UNIX File System)</li> <li>VxFS</li> </ul>
SCO OpenServer <sup>1</sup>	<ul style="list-style-type: none"> <li>HTFS (High Throughput FS)</li> <li>DTFS</li> <li>S51K</li> <li>S52K</li> </ul>
SCO Unixware <sup>1</sup>	<ul style="list-style-type: none"> <li>memfs</li> <li>s5</li> <li>sfs (Note: ACLs are not backed up and restored.)</li> </ul>

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	<ul style="list-style-type: none"> <li>• ufs</li> <li>• bfs</li> <li>• vxfs (Note: ACLs are not backed up and restored.)</li> </ul>
Tru64 UNIX <sup>1</sup>	<ul style="list-style-type: none"> <li>• UFS (UNIX FS)</li> <li>• AdvFS (Advanced File System)</li> </ul>
Linux (Redhat, SuSE & Debian) <sup>1</sup>	<ul style="list-style-type: none"> <li>• Ext3, ext2, ext, minix, xiafs, ReiserFS, VxFS, XFS<sup>2</sup>, VFAT, SFS</li> </ul>
Open VMS	<ul style="list-style-type: none"> <li>• ODS-2</li> <li>• ODS-5</li> </ul>

<sup>1</sup> Raw Disk Backup is supported. On Tru64, this is not true if LSM is present

<sup>2</sup> XFS is not supported on Redhat Enterprise Linux 4.0.

## ACL support in data protector 6.1

operating system	file system	number of ACL entries (basic/extended)
Windows 2000	NTFS	Unlimited
Windows XP Pro	NTFS	Unlimited
Windows 2003	NTFS	Unlimited
Windows XP 64	NTFS	Unlimited
Novell Netware	NetWare FS (MAC, NFS, OS/2, DOS) <sup>1</sup>	512
Novell Netware	NSS	Unlimited
HP-UX	HFS	3/16
HP-UX	VxFS	4/17
IBM AIX	AIX (Physical FS 'oaix')	1024 (4096 bytes)
OpenVMS	ODS-2, ODS-5	Not Applicable
Solaris	UFS, VxFS (3.5)	1024
Linux	XFS (SLES 9)	3/25
	ReiserFS (SLES 9)	3/8191
	EXT3	3/512
Tru64	UFS	3/Unlimited
	AdvFS	3/65

<sup>1</sup> Limited with Data Protector record size and SMS API.