



# HP Data Protector 8.00

## Platform and Integration Support Matrix

Version: 2.2

Date: September 2014

For the following Data Protector components, only those combinations of Data Protector components, applications and operating systems are supported for which the corresponding application versions and operating system versions are supported by the respective vendors.

The supported operating system "Windows Server 2003" includes support for all editions of Windows Server 2003 and Windows Server 2003 R2 including Windows Unified Data Storage Server where applicable.

The supported operating system "Windows Server 2008" and "Windows Server 2008 R2" includes support for all editions of Windows Server 2008 and "Windows Server 2008 R2" including Windows Unified Data Storage Server where applicable.

The supported operating system "Windows Server 2012" includes support for all editions of Windows Server 2012.

The supported operating system "Windows Server 2012 R2" includes support for all editions of Windows Server 2012 R2.

Support for SUSE Linux Enterprise Server 11 does not include support for Novell Open Enterprise Server 11.

### Supported operating systems

Data Protector component	Supported operating systems
Cell Manager	<ul style="list-style-type: none"><li>Windows Server 2008 (64-bit) (x64)</li><li>Windows Server 2008 R2 (64-bit) (x64)</li><li>Windows Server 2012 (64-bit) (x64) <sup>11, 12</sup></li><li>Windows Server 2012 R2 (64-bit) (x64) <sup>11, 12</sup></li><li>HP-UX (Itanium) 11.31<sup>2, 3</sup></li><li>Red Hat Enterprise Linux (RHEL) <sup>4</sup> 5.x, 6.0, 6.1, 6.2, 6.3, 6.4, 6.5 (64-bit) (x64)</li><li>CentOS 6.4, 6.5 (64-bit) (x64)</li><li>Oracle Enterprise Linux (OEL) 6.4, 6.5 (64-bit) (x64)</li><li>SUSE Linux Enterprise Server 11 (64-bit) (x64)</li></ul>
Installation Server	<ul style="list-style-type: none"><li>Windows Server 2008 (64-bit) (x64)</li><li>Windows Server 2008 R2 (64-bit) (x64)</li><li>Windows Server 2012 (64-bit) (x64) <sup>11</sup></li><li>Windows Server 2012 R2 (64-bit) (x64)</li><li>HP-UX (Itanium) 11.31<sup>2, 3</sup></li><li>Red Hat Enterprise Linux (RHEL) <sup>4</sup> 5.x, 6.0, 6.1, 6.2, 6.3, 6.4, 6.5 (64-bit) (x64)</li><li>CentOS 6.5 (64-bit) (x64)</li><li>Oracle Enterprise Linux (OEL) 6.5 (64-bit) (x64)</li><li>SUSE Linux Enterprise Server 11 (64-bit) (x64)</li></ul>
Manager-of-Managers (MoM)	<ul style="list-style-type: none"><li>Windows Server 2008(64-bit) (x64)</li><li>Windows Server 2008 R2 (64-bit) (x64)</li></ul>

	<ul style="list-style-type: none"> <li>• Windows Server 2012 (64-bit) (x64)<sup>11, 12</sup></li> <li>• Windows Server 2012 R2 (64-bit) (x64)<sup>11, 12</sup></li> <li>• HP-UX (Itanium) 11.31<sup>2, 3</sup></li> <li>• Red Hat Enterprise Linux (RHEL)<sup>4</sup> 5.x, 6.0, 6.1, 6.2, 6.3, 6.4, 6.5 (64-bit) (x64)</li> <li>• CentOS 6.5 (64-bit) (x64)</li> <li>• Oracle Enterprise Linux (OEL) 6.5 (64-bit) (x64)</li> <li>• SUSE Linux Enterprise Server 11 (64-bit) (x64)</li> </ul>
Backup device server (Media Agent), including robotic control	<ul style="list-style-type: none"> <li>• Windows 7 (32-bit)</li> <li>• Windows 7 (64-bit) (x64)</li> <li>• Windows 8 (64-bit) (x64)</li> <li>• Windows 8.1 (64-bit) (x64)</li> <li>• Windows Server 2003 (32-bit)</li> <li>• Windows Server 2003 (64-bit) (Itanium, x64) Windows Server 2008 (32-bit)</li> <li>• Windows Server 2008 (64-bit) (Itanium, x64)</li> <li>• Windows Server 2008 R2 (64-bit) (Itanium, x64)</li> <li>• Windows Server 2008 Core (32 bit, 64-bit) (Itanium, x64)</li> <li>• Windows Server 2008 R2 Core (64-bit) (x64)</li> <li>• Windows Server 2012 (64-bit) (x64)</li> <li>• Windows Server 2012 R2 (64-bit) (x64)</li> <li>• Novell Open Enterprise Server 2.0 for Linux (32-bit and 64-bit)</li> <li>• Novell Open Enterprise Server 11.x for Linux (64-bit)</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>• OpenVMS, 8.3<sup>1</sup>, 8.4<sup>1</sup> (Alpha)</li> <li>• OpenVMS 8.3<sup>1</sup>, 8.3-1H1<sup>1</sup>, 8.4<sup>1</sup> (Itanium)</li> <li>• Sun Solaris (SPARC) 9, 10, 11</li> <li>• Sun Solaris 10, 11 (x86 and x64)</li> <li>• Linux (32-bit): Red Hat Enterprise Linux (RHEL)<sup>4</sup> 5.x, 6.0, 6.1, 6.2, 6.3 SUSE Linux Enterprise Server (SLES) 9, 10, 11 Oracle Enterprise Linux, 5.x, 6.0, 6.1, 6.2, 6.3 CentOS 5.x, 6.0, 6.1, 6.2, 6.3</li> <li>• Linux (64-bit): Red Hat Enterprise Linux (RHEL)<sup>4</sup> 5.x (Itanium, x64) Red Hat Enterprise Linux (RHEL)<sup>4</sup> 6.0, 6.1, 6.2, 6.3, 6.4, 6.5 (x64) SUSE Linux Enterprise Server (SLES) 9, 10 and 11 (Itanium, x64) Oracle Enterprise Linux, 5.x, 6.0, 6.1, 6.2, 6.3, 6.4, 6.5 (x64) Debian Linux 6.0(x64) CentOS 5.x, 6.0, 6.1, 6.2, 6.3, 6.4, 6.5 (x64)</li> </ul>
Backup device server (Media Agent), without robotic control	<p>The above list plus the following:</p> <ul style="list-style-type: none"> <li>• IBM AIX, 6.x, 7.1</li> </ul>
Backup agents (Disk Agents)	<ul style="list-style-type: none"> <li>• Windows XP Home Edition<sup>1</sup></li> <li>• Windows XP Professional (32 bit)</li> <li>• Windows XP Professional (64-bit) (x64)</li> <li>• Windows Vista (32-bit)<sup>10</sup></li> <li>• Windows 7 (32-bit)</li> <li>• Windows Vista (64-bit) (x64)<sup>10</sup></li> <li>• Windows 7 (64-bit) (x64)</li> <li>• Windows 8 (32-bit)</li> <li>• Windows 8 (64-bit) (x64)</li> <li>• Windows 8.1 (64-bit) (x64)</li> <li>• Windows Server 2003 (32-bit)<sup>10</sup></li> <li>• Windows Server 2003 (64-bit) (Itanium, x64)<sup>10</sup></li> <li>• Windows Server 2008 (32-bit)<sup>10</sup></li> <li>• Windows Server 2008 (64-bit) (Itanium, x64)<sup>10</sup></li> <li>• Windows Server 2008 R2 (64-bit)(x64, Itanium)</li> <li>• Windows Server 2008 Core (32bit)<sup>10</sup></li> </ul>

	<ul style="list-style-type: none"> <li>• Windows Server 2008 Core (64-bit) (Itanium, x64)<sup>10</sup></li> <li>• Windows Server 2008 R2 Core (64-bit) (x64)</li> <li>• Windows Small Business Server 2011 (64-bit) (x64)</li> <li>• Windows Server 2012 (64-bit) (x64)</li> <li>• Windows Server 2012 R2 (64-bit) (x64)</li> <li>• Novell Open Enterprise Server 2.0 for Linux (32-bit and 64-bit)</li> <li>• Novell Open Enterprise Server 11.x for Linux (64-bit)</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) 9, 10, 11<sup>8</sup></li> <li>• Sun Solaris (x86, x64) 10, 11<sup>8</sup></li> <li>• IBM AIX, 6.x, 7.1<sup>6</sup></li> <li>• SCO OpenServer 6.0.0</li> <li>• Open VMS 8.3<sup>1</sup>, 8.4<sup>1</sup> (Alpha)</li> <li>• Open VMS 8.3<sup>1</sup>, 8.3-1H1<sup>1</sup>, 8.4<sup>1</sup> (Itanium)</li> <li>• Mac OS X Server 10.6.x (64-bit) (x64)</li> <li>• Linux (32-bit): Red Hat Enterprise Linux (RHEL)<sup>4</sup> 5.x, 6.0, 6.1, 6.2, 6.3 SUSE Linux Enterprise Server (SLES) 9, 10, 11 Oracle Enterprise Linux 5.x, 6.0, 6.1, 6.2, 6.3 CentOS 5.x, 6.0, 6.1, 6.2, 6.3</li> <li>• Linux (64-bit): Red Hat Enterprise Linux (RHEL)<sup>4</sup> 5.x (Itanium, x64) Red Hat Enterprise Linux (RHEL)<sup>4</sup> 6.0, 6.1, 6.2, 6.3, 6.4, 6.5 (x64) SUSE Linux Enterprise Server (SLES) 9, 10 and 11 (Itanium, x64) Oracle Enterprise Linux 5.x, 6.0, 6.1, 6.2, 6.3, 6.4, 6.5 (x64) Debian Linux 6.0, 7.0<sup>13</sup>(x64) CentOS 5.x (x64), 6.0, 6.1, 6.2, 6.3, 6.4, 6.5 (x64) Ubuntu 12.x (x64)</li> <li>• additional UNIX platforms via NFS (on UNIX systems)</li> <li>• additional platforms via shared disks (CIFS /SMB 1, 2, or 3 on Windows systems)</li> </ul>
Backup Agents (disk agents) for file system and raw disk backup using AES encryption	<ul style="list-style-type: none"> <li>• Windows XP Professional (32-bit)</li> <li>• Windows Vista (32-bit)</li> <li>• Windows Vista (64-bit) (x64)</li> <li>• Windows 8 (32-bit)</li> <li>• Windows 8 (64-bit) (x64)</li> <li>• Windows 8.1 (64-bit) (x64)</li> <li>• Windows Server 2003 (32-bit)</li> <li>• Windows Server 2003 (64-bit) (Itanium, x64)</li> <li>• Windows Server 2008 (32-bit)</li> <li>• Windows Server 2008 (64-bit) (Itanium, x64)</li> <li>• Windows Server 2008 R2 (64-bit) (Itanium, x64)</li> <li>• Windows Server 2012 (64-bit) (x64)</li> <li>• Windows Server 2012 R2 (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>• Sun Solaris (SPARC) 9, 10, 11<sup>9</sup></li> <li>• Linux (32-bit): Red Hat Enterprise Linux (RHEL)<sup>4</sup> 5.x, 6.0, 6.1, 6.2, 6.3, 6.4 SUSE Linux Enterprise Server (SLES) 10, 11</li> <li>• Linux (64-bit): Red Hat Enterprise Linux (RHEL)<sup>4</sup> 5.x (Itanium, x64) Red Hat Enterprise Linux (RHEL)<sup>4</sup> 6.0, 6.1, 6.2, 6.3, 6.4, 6.5 (x64) SUSE Linux Enterprise Server (SLES) 9, 10 and 11 (Itanium, x64)</li> </ul>
Backup device server (Media Agent), including robotic control using LTO drive based encryption (AES-GCM)	<ul style="list-style-type: none"> <li>• Windows 8 (64-bit) (x64)</li> <li>• Windows 8.1 (64-bit) (x64)</li> <li>• Windows Server 2003 (32-bit)</li> <li>• Windows Server 2003 (64-bit) (Itanium, x64)</li> <li>• Windows Server 2008 (32-bit)</li> </ul>

	<ul style="list-style-type: none"> <li>• Windows Server 2008 (64-bit) (Itanium, x64)</li> <li>• Windows Server 2008 R2 (64-bit) (Itanium, x64)</li> <li>• Windows Server 2012 (64-bit) (x64)</li> <li>• Windows Server 2012 R2 (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>• Linux (32-bit): Red Hat Enterprise Linux (RHEL)<sup>4</sup> 5.x, 6.0, 6.1, 6.2, 6.3 SUSE Linux Enterprise Server (SLES) 10, 11 Oracle Enterprise Linux 6.0, 6.1, 6.2, 6.3</li> <li>• Linux (64-bit): Red Hat Enterprise Linux (RHEL)<sup>4</sup> 5.x (Itanium, x64) Red Hat Enterprise Linux (RHEL)<sup>4</sup> 6.0, 6.1, 6.2, 6.3, 6.4, 6.5 (x64) SUSE Linux Enterprise Server (SLES) 10, 11 (Itanium, x64) Oracle Enterprise Linux 6.0, 6.1, 6.2, 6.3, 6.4, 6.5 (x64)</li> </ul>
StoreOnce Software Deduplication	<ul style="list-style-type: none"> <li>• Windows Server 2008 (64-bit)(x64)</li> <li>• Windows Server 2008 R2 (64-bit) (x64)</li> <li>• Windows Server 2012 (64-bit) (x64)</li> <li>• Linux (64-bit): Red Hat Enterprise Linux (RHEL)<sup>4</sup> 5.x, 6.x (x64) SUSE Linux Enterprise Server (SLES) 10.x, 11.x (x64) Oracle Enterprise Linux 6.4 (x64) CentOS 6.4 (x64)</li> </ul>
Backup device server (Media Agent) with Deduplication <sup>7,9</sup>	<ul style="list-style-type: none"> <li>• Windows Server 2008 (64-bit) (x64)</li> <li>• Windows Server 2008 R2 (64-bit)(x64)</li> <li>• Windows Storage Server 2008 R2 (x64)</li> <li>• Windows Server 2012 (64-bit) (x64)</li> <li>• Windows Server 2012 R2 (64-bit) (x64)</li> <li>• HP-UX (Itanium) 11.23<sup>3,5</sup>, 11.31<sup>3,5</sup></li> <li>• Linux (64-bit) Red Hat Enterprise Linux (RHEL)<sup>4</sup> 5.x, 6.x (x64) SUSE Linux Enterprise Server (SLES) 10, 11 (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.  
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> Includes support for Red Hat Enterprise Linux Advanced Server, Advanced Workstation and Enterprise Server if applicable.

<sup>5</sup> Backup to Data Protector StoreOnce Software store is not supported.

<sup>6</sup> Includes support for Veritas Cross-Platform Data Sharing (CDS) disk.

<sup>7</sup> Support is available on HP StoreOnce B6200 Backup System with the firmware version 3.2.0, HP StoreOnce VSA and HP StoreOnce Backup Systems 2000 and 4000 series with the firmware 3.4.0 and newer.

<sup>8</sup> System Extended Attributes are not supported.

<sup>9</sup> For B6200 appliances and HP StoreOnce Backup Systems 2000 and 4000 series Backup, Copy and Replication are not supported in an IPv6 only environment.

<sup>10</sup> Requires installation of Windows patch KB2748349.

<sup>11</sup> Support is available with Data Protector 8.0 International release.

<sup>12</sup> Not supported on Windows Server Cluster.

<sup>13</sup> Supported with patch bundle 8.0.1

## Supported CLI platforms and localization

Operating system	Supported local languages
Windows	<ul style="list-style-type: none"> <li>• English</li> <li>• French</li> <li>• Japanese</li> <li>• Simplified Chinese</li> </ul>
HP-UX	<ul style="list-style-type: none"> <li>• English</li> <li>• French</li> <li>• Japanese</li> </ul>

	<ul style="list-style-type: none"> <li>• Simplified Chinese</li> </ul>
Solaris	<ul style="list-style-type: none"> <li>• English</li> </ul>
Linux	<ul style="list-style-type: none"> <li>• English</li> <li>• French</li> <li>• Japanese</li> <li>• Simplified Chinese</li> </ul>
IBM AIX	<ul style="list-style-type: none"> <li>• English</li> </ul>
Novell Open Enterprise Server	<ul style="list-style-type: none"> <li>• English</li> </ul>
SCO OpenServer,	<ul style="list-style-type: none"> <li>• English</li> </ul>
Open VMS	<ul style="list-style-type: none"> <li>• English</li> </ul>
VMware ESX	<ul style="list-style-type: none"> <li>• English</li> </ul>
Mac OS X Server	<ul style="list-style-type: none"> <li>• English</li> </ul>

### Graphical user interface support<sup>1</sup>

GUI component	Supported operating system
Native Windows graphical user interface	<ul style="list-style-type: none"> <li>• Windows Vista (32-bit)</li> <li>• Windows Vista (64-bit) (x64)</li> <li>• Windows 7 (32-bit)</li> <li>• Windows 7 (64-bit) (x64)</li> <li>• Windows 8 (32-bit)</li> <li>• Windows 8 (64-bit) (x64)</li> <li>• Windows Server 2008 (32-bit)</li> <li>• Windows Server 2008, Windows Server 2008 R2 (64-bit) (Itanium, x64)</li> <li>• Windows Server 2012 (64-bit) (x64)</li> <li>• Windows Server 2012 R2 (64-bit) (x64)</li> </ul>

<sup>1</sup> Graphical user interface is supported for following languages:

- English,
- French,
- Japanese,
- Simplified Chinese.

### Platform restrictions for supported operating systems

Operating system	Supported processor platforms
HP-UX	PA-RISC (HP-UX 11.11, 11.23, 11.31) Itanium (HP-UX 11.23, 11.31)
Windows	x86, x86_64 (for 32-bit Windows) Itanium, x86_64 (for 64-bit Windows)
Linux	x86, x86_64 (for 32-bit Linux) Itanium, x86_64 (for 64-bit Linux)
Sun Solaris	SPARC x86, x86_64 (for Solaris 10 Disk Agent and Media Agent only)
OpenVMS	Alpha, Itanium
Mac OS X	x86_64 (Mac OS X 10.6.x)

For the following integration matrix, only those combinations of applications and operating systems are supported that are supported by the respective vendors. Software based encryption is supported for all integrations except ZDB<sup>7</sup>

### Supported online database and application integrations

Databases/Applications	Supported versions	Operating System with versions
Autonomy LiveVault <sup>10</sup>	<ul style="list-style-type: none"> <li>Autonomy LiveVault 7.52 and newer</li> </ul>	Windows Server 2003 (32-bit) Windows Server 2003 (64-bit) (x64) Windows Server 2008 (32-bit) Windows Server 2008 (64-bit) (x64) Windows Server 2008 R2 (64-bit)(x64) Windows Server 2008 Core (32bit) Windows Server 2008 Core (64-bit) (x64) Windows Server 2008 R2 Core (64-bit) (x64)
Autonomy Connector Framework Server (IDOL)	<ul style="list-style-type: none"> <li>Autonomy Connector Framework Server 7.6 and newer</li> </ul>	Windows Server 2003 (32-bit) Windows Server 2008 R2 (64-bit) Windows Server 2012 (64-bit) (x64)
Oracle (32-bit) (including Oracle Data Guard/Standby Database support)	<ul style="list-style-type: none"> <li>Oracle 11g/ Recovery Manager<sup>1</sup>:</li> <li>Oracle 11g R2/ Recovery Manager<sup>1</sup>:</li> </ul>	Windows Server 2003 (32-bit) Windows Server 2008 (32-bit) RHEL Advanced Server <sup>2</sup> 5.x (32-bit) SUSE Linux Enterprise Server 10, 11 (32-bit) Oracle Enterprise Linux 5.x (32-bit) RHEL Advanced Server <sup>2</sup> , 5.x (32-bit) SUSE Linux Enterprise Server 10, 11 (32-bit) Oracle Enterprise Linux, 5.x (32-bit) Windows Server 2003 (32-bit) Windows Server 2008 (32-bit)
Oracle (64-bit) (Including Oracle Data Guard/Standby Database support)	<ul style="list-style-type: none"> <li>Oracle 10g R2/ Recovery Manager:</li> <li>Oracle 11g/ Recovery Manager<sup>1</sup>:</li> <li>Oracle 11g R2/ Recovery Manager<sup>1</sup>:</li> <li>Oracle 12c/ Recovery Manager:</li> </ul>	HP-UX 11.31 (64-bit) (Itanium) Solaris (SPARC) 10 (64-bit) Windows Server 2008 (64-bit) (x64) SUSE Linux Enterprise Server 9, 10, 11 (64-bit) (x64) HP-UX 11.23, 11.31 (64-bit) (Itanium, PA-RISC) Solaris (SPARC) 9, 10, 11 (64-bit) Windows Server 2003 (64-bit) (Itanium, x64) Windows Server 2008 (64-bit) (x64) Windows Server 2008 R2 (64-bit) (x64) AIX, 6.x (64-bit) RHEL Advanced Server <sup>2</sup> 5.x, 6.0, 6.1, 6.2, 6.3 (64-bit) (x64) SUSE Linux Enterprise Server 10, 11 (64-bit) (x64) Oracle Enterprise Linux 5.x, 6.0, 6.1, 6.2, 6.3 (64-bit) (x64) HP-UX 11.31 (64-bit) (Itanium, PA-RISC) RHEL Advanced Server <sup>2</sup> 5.x, 6.0, 6.1, 6.2, 6.3, 6.4 (64-bit) (x64) SUSE Linux Enterprise Server 10, 11 (64-bit) (x64) Oracle Enterprise Linux 5.x, 6.0, 6.1, 6.2, 6.3, 6.4 (64-bit) (x64) CentOS 6.4 (64-bit)(x64) Windows Server 2003 (64-bit) (x64) Windows Server 2008 (64-bit) (x64) Windows Server 2008 R2 (64-bit) (x64) AIX 6.x, 7.1 (64-bit) Solaris (SPARC) 10, 11 (64-bit) Windows Server 2008 (64-bit) (x64) Windows Server 2008 R2 (64-bit) (x64) Windows Server 2012 (64-bit) (x64) Windows Server 2012 R2 (64-bit) (x64) RHEL Advanced Server 6.4 (64-bit)(x64) Oracle Enterprise Linux 6.4 (64-bit)(x64) CentOS 6.4 (64-bit)(x64)
Informix (64-bit)	<ul style="list-style-type: none"> <li>Informix IDS 11.5:</li> </ul>	HP-UX 11.11 HP-UX 11.23, 11.31 (Itanium, PA-RISC)

	<ul style="list-style-type: none"> <li>• Informix IDS 11.7:</li> <li>• Informix IDS 12.0:</li> </ul>	<p>Solaris (SPARC) 9, 10 AIX, 6.x, 7.1 RHEL Advanced Server<sup>2</sup> 5.x (x64) SUSE Linux Enterprise Server 10, 11 (x64) Windows Server 2003 (x64) HP-UX 11.31 (Itanium, PA-RISC) Solaris (SPARC) 10, 11 RHEL Advanced Server<sup>2</sup> 6.0, 6.1, 6.2, 6.3 (x64) SUSE Linux Enterprise Server 11 (x64) Windows Server 2008 R2 (x64) AIX 6.1, 7.1 (64-bit) HP-UX 11.31 (64-bit)(Itanium)</p>
Sybase (64-bit)	<ul style="list-style-type: none"> <li>• Sybase Adaptive Server Enterprise 15.x:</li> <li>• Sybase Adaptive Server Enterprise 15.7: (x64)</li> </ul>	<p>HP-UX 11.23, 11.31 (Itanium, PA-RISC) Solaris (SPARC) 9, 10 RHEL Advanced Server<sup>2</sup> 5.x (x64) AIX, 6.x HP-UX 11.31 (Itanium) RHEL Advanced Server<sup>2</sup> 6.0, 6.1, 6.2, 6.3, 6.4, 6.5  SUSE Linux Enterprise Server 11 (x64) Solaris (SPARC) 10 AIX 7.1 Windows Server 2003 R2 Windows Server 2008 R2 (x64)</p>
Microsoft SQL Server (32-bit)	<ul style="list-style-type: none"> <li>• Microsoft SQL Server 2005<sup>7</sup>:</li> <li>• Microsoft SQL Server 2008<sup>7</sup>:</li> <li>• Microsoft SQL Server 2008 R2<sup>7,11,13</sup> :</li> <li>• Microsoft SQL Server 2012<sup>7</sup>:</li> </ul>	<p>Windows Server 2003 Windows Server 2008 Windows Server 2003 Windows Server 2008 Windows Server 2003 Windows Server 2008 Windows Server 2008</p>
Microsoft SQL Server (64-bit)	<ul style="list-style-type: none"> <li>• Microsoft SQL Server 2005<sup>7</sup>:</li> <li>• Microsoft SQL Server 2008<sup>7,13</sup>:</li> <li>• Microsoft SQL Server 2008 R2<sup>7,11,13</sup> :</li> <li>• Microsoft SQL Server 2012<sup>7,13</sup> :</li> </ul>	<p>Windows Server 2003 (Itanium, x64) Windows Server 2008 (Itanium, x64) Windows Server 2003 (Itanium, x64) Windows Server 2008 (Itanium, x64) Windows Server 2008 R2 (Itanium, x64) Windows Server 2003 (Itanium, x64) Windows Server 2008 (Itanium, x64) Windows Server 2008 R2 (Itanium, x64) Windows Server 2012 Windows Server 2012 R2 (x64) Windows Small Business Server 2011 (x64) Windows Server 2008 (x64) Windows Server 2008 R2 (x64) Windows Server 2012 (x64) Windows Server 2012 R2 (x64)</p>
Microsoft SharePoint	<ul style="list-style-type: none"> <li>• Microsoft Office SharePoint Server 2007: <sup>3</sup></li> <li>• Microsoft SharePoint Server 2010: <sup>3</sup></li> <li>• Microsoft SharePoint Server 2013: <sup>3</sup></li> <li>• Windows SharePoint Services 3.0:</li> </ul>	<p>Windows Server 2003 (32-bit) Windows Server 2003 (64-bit) (x64) Windows Server 2008 (32-bit) Windows Server 2008 (64-bit) (x64) Windows Server 2008 (64-bit) (x64) Windows Server 2008 R2 (64-bit) (x64) <sup>8</sup> Windows Server 2008 R2 (SP1) (x64) Windows Server 2012 (x64) Windows Server 2003 (32-bit) Windows Server 2003 (64-bit) (x64)</p>

		Windows Server 2008 (32-bit) Windows Server 2008 (64-bit) (x64) Windows Server 2008 (64-bit) (x64) Windows Server 2008 R2 (64-bit) (x64)
	<ul style="list-style-type: none"> <li>• Microsoft SharePoint Foundation 2010:</li> </ul>	
Microsoft Exchange Server (including single mailbox and single folder restore)	<ul style="list-style-type: none"> <li>• Microsoft Exchange Server 2007:</li> </ul>	Windows Server 2003 (64-bit) (x64) Windows Server 2008 (64-bit) (x64)
Microsoft Exchange Server (including single mailbox and folder and DAG backup / restore)	<ul style="list-style-type: none"> <li>• Microsoft Exchange Server 2010</li> <li>• Microsoft Exchange Server 2010</li> <li>• Microsoft Exchange Server 2013 <sup>9,12</sup></li> </ul>	Windows Server 2008 (64-bit) (x64) <sup>9</sup> Windows Server 2008 R2 (64-bit) (x64) <sup>9</sup> Windows Server 2012 Windows Small Business Server 2011 (64-bit) (x64) Windows Server 2008 R2 (64-bit) (x64) Windows Server 2012 (64-bit) (x64)
Microsoft Data Protection Manager (DPM)	<ul style="list-style-type: none"> <li>• Data Protection Manager 2007:</li> <li>• Data Protection Manager 2010:</li> </ul>	Windows Server 2003 (x64) Windows Server 2003 (x64) Windows Server 2008 (64-bit) (x64) Windows Server 2008 R2 (64-bit) (x64)
IBM DB2 (32-bit)	<ul style="list-style-type: none"> <li>• IBM DB2 9.1</li> <li>• IBM DB2 9.5</li> <li>• IBM DB2 9.7</li> </ul>	RHEL Advanced Server <sup>2</sup> 5.x (32-bit) SUSE Linux Enterprise Server 9, 10, 11 (32-bit) Windows Server 2003 (32-bit) AIX 6.x (32-bit) RHEL Advanced Server <sup>2</sup> 5.x (32-bit) SUSE Linux Enterprise Server 10, 11 (32-bit) Windows Server 2003 (32-bit) Windows Server 2008 (32-bit) AIX 6.x (32-bit, 64-bit) RHEL Advanced Server <sup>2</sup> 5.x, 6.0 (32-bit) SUSE Linux Enterprise Server 10, 11 (32-bit) Windows Server 2003 (32-bit) Windows Server 2008 (32-bit) AIX, 6.x (32-bit)
IBM DB2 (64-bit)	<ul style="list-style-type: none"> <li>• IBM DB2 9.1</li> <li>• IBM DB2 9.5</li> <li>• IBM DB2 9.7</li> </ul>	HP-UX 11.11 HP-UX 11.23, 11.31 (Itanium, PA-RISC) AIX, 6.x SUSE Linux Enterprise Server 9, 10, 11 (x64) Windows Server 2003 (x64) HP-UX 11.23, 11.31 (Itanium) AIX, 6.x (64-bit) RHEL Advanced Server <sup>2</sup> 5.x (x64) SUSE Linux Enterprise Server 10, 11 (x64) Windows Server 2003 (x64) Windows Server 2008 (x64) Windows Server 2008 R2 (x64) HP-UX 11.23, 11.31 (Itanium) AIX 6.x, 7.1 (64-bit) RHEL Advanced Server <sup>2</sup> 5.x, 6.0 (x64) SUSE Linux Enterprise Server 10, 11 (x64) Windows Server 2003 (x64) Windows Server 2008 (x64) Windows Server 2008 R2 (x64)
Lotus Notes, Lotus Domino (32-bit) (including single mailbox	<ul style="list-style-type: none"> <li>• Lotus Domino/Notes 8.5.x</li> </ul>	Windows Server 2003 (32-bit) Windows Server 2008 (64-bit) (x64)



backup and restore)		Windows Server 2008 R2 (64-bit) (x64) AIX 6.x (64-bit) Solaris 10 (SPARC) RHEL Advanced Server <sup>2</sup> 5.x (32-bit) RHEL Advanced Server <sup>2</sup> 5.x, 6.0. 6.1, 6.2 (64-bit) (x64) SUSE Linux Enterprise Server 10 (64-bit) (x64)
Lotus Notes, Lotus Domino (64-bit) (including single mailbox backup and restore)	<ul style="list-style-type: none"> <li>Lotus Domino/Notes 8.5.x</li> <li>IBM Notes and Domino 9.0.x (x64)</li> </ul>	Windows Server 2003 (64-bit)(x64) Windows Server 2008 (64-bit) (x64) Windows Server 2008 R2 (64-bit) (x64) AIX 6.x, 7.1 (64-bit) Solaris 10, 11 (SPARC) Windows Server 2008 R2 (64-bit) (x64) Windows Server 2012 (64-bit) (x64) AIX 7.1 (64-bit) RHEL Advanced Server 6.3, 6.4 (64-bit) (x64) SUSE Linux Enterprise Server 11.2, 11.3 (64-bit)
SAPMaxDB (32-bit) (online integration based on 'Backint for SAP MaxDB')	<ul style="list-style-type: none"> <li>SAP MaxDB version 7.6:</li> <li>SAP MaxDB version 7.7:</li> <li>SAP MaxDB version 7.8:</li> </ul>	HP-UX 11.11 (32-bit) Windows Server 2003 (32-bit) SUSE Linux Enterprise Server 9, 10 (32-bit) RHEL Advanced Server <sup>2</sup> 4.x, 5.x (32-bit) HP-UX 11.11 (32-bit) Windows Server 2003 (32-bit) SUSE Linux Enterprise Server 9, 10 (32-bit) RHEL Advanced Server <sup>2</sup> 4.x, 5.x (32-bit) Windows Server 2008 (32bit)
SAP MaxDB (64-bit) (online integration based on 'Backint for SAP MaxDB')	<ul style="list-style-type: none"> <li>SAP MaxDB version 7.6:</li> <li>SAP MaxDB version 7.7:</li> <li>SAP MaxDB version 7.8:</li> <li>SAP MaxDB version 7.9</li> </ul>	HP-UX 11.11 HP-UX 11.23, 11.31 (PA-RISC, Itanium) Windows Server 2003 (Itanium, x64) SLES 9, 10 (Itanium, x64) RHEL Advanced Server <sup>2</sup> 5.x (Itanium, x64) AIX 6.1 (x64) HP-UX 11.11 HP-UX 11.23, 11.31 (PA-RISC, Itanium) Windows Server 2003 (Itanium, x64) Windows Server 2008 (Itanium, x64) SLES 9, 10, 11 (Itanium, x64) RHEL Advanced Server <sup>2</sup> 5.x (x64) AIX 6.1, 7.1 Windows Server 2008 (64-bit) (x64) Windows Server 2008 R2 (64-bit) (x64) RHEL Advanced Server 6.0, 6.1, 6.2, 6.3 (x64) SuSE Linux Enterprise Server 11 (64-bit) (x64) HP-UX 11. 31 (Itanium) AIX 6.1, 7.1(64bit) Windows Server 2008 (64-bit) (x64) Windows Server 2008 R2 (64-bit) (x64) RHEL Advanced Server 6.0, 6.1, 6.2, 6.3 (x64) SuSE Linux Enterprise Server 11 (64-bit) (x64) HP-UX 11. 31 (Itanium) AIX 6.1, 7.1(64bit)
SAP NetWeaver <sup>4</sup> (32-bit)	<ul style="list-style-type: none"> <li>SAP BR*Tools 7.2, using backint or RMAN mode:</li> </ul>	RHEL Advanced Server <sup>2</sup> 5.x, 6.0, 6.1, 6.2 SUSE Linux Enterprise server 11

SAP NetWeaver <sup>4</sup> (64-bit)	<ul style="list-style-type: none"> <li>SAP BR*Tools 7.2, using backint or RMAN mode:<sup>6</sup></li> </ul>	HP-UX 11.31 (Itanium, PA-RISC) Windows Server 2003 (Itanium, x64) Windows Server 2008 (x64) Windows Server 2008 R2 (x64) Solaris (SPARC) 9, 10, 11 AIX 6.x, 7.1 RHEL Advanced Server <sup>2</sup> 5.x (Itanium, x64) RHEL Advanced Server <sup>2</sup> 6.0, 6.1, 6.2, 6.3 (x64) SLES 11 (Itanium, x64) Oracle Enterprise Linux 6.0, 6.1, 6.2, 6.3 (x64)
Baan IV <sup>5</sup>	<ul style="list-style-type: none"> <li>Baan IV on Oracle, Informix, Microsoft SQL Server and Sybase (see versions above)</li> </ul>	

- 1 Oracle 11g covers all released versions of Oracle 11g and 11g R2: i.e. 11x.x.
- 2 Includes support for Red Hat Enterprise Linux Advanced Workstation and Enterprise Server also.
- 3 Sharepoint Granular Recovery Extension is also supported.
- 4 Data Protector uses the official SAP backup and restore API (BR\*Tools), which is available only in conjunction with Oracle database. Therefore, Data Protector support only depends on the SAP BR\*Tools version (as supported by SAP in combination with various SAP kernels) and not on the SAP kernel version.
- 5 Baan users with Oracle, Informix, Microsoft SQL Server or Sybase databases can back up their application data by following the instructions for integrating Data Protector with their database in the *HP Data Protector 8.00 Integration Guide*.
- 6 BR\*Tools 7.20 is the recommended version of the tools for Oracle 11g. To be able to use BR\*Tools under Oracle 11g on Unix platforms (except for AIX), you must set up the following soft link in \$ORACLE\_HOME/lib:  
> ln -s libnnz11.so libnnz10.so
- 7 For MS SQL integration fast direct mode backup, Data Protector client based AES encryption is not supported.
- 8 Microsoft FAST Search Server 2010 for SharePoint is supported.
- 9 Microsoft Exchange Server Granular Recovery Extension is also supported.
- 10 The Autonomy LiveVault Agent supports only Windows File System backup.
- 11 Support is also available for Microsoft SQL Server 2008 R2 Express edition. Please refer to Microsoft websites for supported Operating Systems/Platforms.
- 12 Backup and restore of single mailbox, folder and DAG are supported through MS Exchange Granular Recovery Extension.
- 13 HP Data Protector can backup and restore SQL Server databases encrypted with Transparent Data Encryption.  
 IMPORTANT NOTE: It is the user's responsibility that the exact combination of encryption keys / certificates are used for backup and for restore.  
 If encryption keys / certificates change between the time of backup and restore, the HP Data Protector restore will not work, unless all needed keys / certificates were copied and restored manually as described in <http://msdn.microsoft.com/en-us/library/bb964742.aspx> and supported through Microsoft. This process is complex and could be error prone. The key / certificate handling process is manual and not integrated into HP Data Protector and is therefore not supported by HP in case it is not correctly applied by the user.

Other supported applications	
Application agents	Supported databases and integrations
All HSM software based on the Windows NTFS offline feature	<ul style="list-style-type: none"> <li>Windows Server 2003 and higher</li> </ul>

Cluster support: all supported Data Protector components for a particular platform are also supported in a cluster environment, 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 11.1x: HP-UX 11.11</li> <li>HP MC/ServiceGuard 11.1x: HP-UX 11.23, 11.31 (PA-RISC, Itanium)</li> <li>HP MC/ServiceGuard 11.2x:<sup>1</sup> HP-UX 11.31 (PA-RISC, Itanium)</li> <li>HP MC/ServiceGuard for Linux:<sup>2,6</sup> Red Hat Enterprise Linux 5.x, 6.3</li> </ul>

	<ul style="list-style-type: none"> <li>• HP MC/ServiceGuard for Linux:<sup>2, 6</sup></li> </ul>	SUSE Linux Enterprise Server 9, 10, 11
Microsoft Cluster Server	<ul style="list-style-type: none"> <li>• Microsoft Cluster Server<sup>4</sup>:</li> <li>• Microsoft Failover Cluster<sup>4</sup>:</li> </ul>	Windows Server 2003 (32-bit) Windows Server 2003 (64-bit) (Itanium) Windows Server 2003 (64-bit) (x64) Windows Server 2008 (32-bit) Windows Server 2008 (64-bit) (Itanium) Windows Server 2008 (64-bit) (x64) Windows Server 2008 R2 (64-bit) (x64) Windows Server 2012 <sup>5</sup> (64-bit) (x64)
Sun Cluster	<ul style="list-style-type: none"> <li>• Sun Cluster:</li> </ul>	Solaris 10 (SPARC) Solaris 11 (SPARC)
Veritas Cluster Server	<ul style="list-style-type: none"> <li>• Veritas Cluster Server 5.0: (Cell Manager, Disk Agent, Oracle)</li> <li>• Veritas Cluster Server 5.1: (Disk Agent and Cell Manager)</li> </ul>	Solaris 10 (SPARC) HP-UX 11.23 (Itanium, PA-RISC) HP-UX 11.31 (Itanium) Windows 2008 (32bit) Windows 2008 R2 (64bit)(x64) HP-UX 11.31 (Itanium) Red Hat Enterprise Linux 5.x, 6.0, 6.3 (64bit)(x64) SLES 11(64bit)(x64)
Novell OES Cluster	<ul style="list-style-type: none"> <li>• Novell OES Cluster:</li> <li>• Novell OES Cluster: (Disk Agent)</li> </ul>	Novell OES2 (32-bit) for Linux Novell OES 2 (64-bit) for Linux Novell OES11 (64-bit) for Linux
OpenVMS Cluster <sup>3</sup>	<ul style="list-style-type: none"> <li>• OpenVMS Cluster (Disk Agent, Media Agent)</li> </ul>	
EFS Clustered Gateway	<ul style="list-style-type: none"> <li>• EFS Clustered Gateway (Disk Agent, Media Agent)</li> </ul>	SUSE Linux Enterprise Server 9, 10 Windows Server 2003
HACMP	<ul style="list-style-type: none"> <li>• HACMP Cluster</li> </ul>	AIX 6.1
Red Hat Cluster Suite	<ul style="list-style-type: none"> <li>• Red Hat Cluster</li> </ul>	Red Hat Enterprise Linux 5.x (32-bit) Red Hat Enterprise Linux 5.x (x64) Red Hat Enterprise Linux 6.0, 6.1, 6.2 (x64) Red Hat Enterprise Linux 6.0, 6.1, 6.2 (32-bit)
SUSE High Availability Storage Infrastructure	<ul style="list-style-type: none"> <li>• SUSE HA Storage Infrastructure</li> </ul>	SUSE Linux Enterprise Server 11 (32-bit) SUSE Linux Enterprise Server 11 (x64)
Life Keeper Cluster	<ul style="list-style-type: none"> <li>• Life Keeper Cluster 7.3, 8.x (Disk Agent)</li> </ul>	Red Hat Enterprise Linux 6.x (x64)

1 For HP MC/ServiceGuard 11.20, cluster wide device special files (cDSFs) are supported..

2 Procedures for installing and configuring Data Protector on MC/ServiceGuard with Linux are available in the *HP Data Protector Help*. Zero Downtime Backup with SMIS Agent is not supported.

3 Details for installing and configuring Data Protector in OpenVMS cluster environment are available in *HP Data Protector 8.00 Installation and Licensing Guide*.

4 Includes support for Cell Manager on 'Majority Node Cluster'.

5 Cell Manager is not supported

6 With HP MC/ServiceGuard A.11.20.20 on Linux the CONFIGURATION backup needs to be excluded from the backup specification. BMDR is not supported.

## Supported application clusters

Software clusters and clustered applications	Supported versions and operating systems
Novell GroupWise	<ul style="list-style-type: none"> <li>• Novell GroupWise 7.0.x</li> </ul> Novell OES 2.0 for Linux 32-bit and 64-bit

	<ul style="list-style-type: none"> <li>Novell GroupWise 8.0</li> </ul>	Novell OES 2.0 for Linux 32-bit and 64-bit Novell OES 11 for Linux 64-bit
Oracle 11g RAC (including OCFS and CRS wherever applicable)	<ul style="list-style-type: none"> <li>Red Hat Enterprise Linux 5.x (using Redhat Cluster Suite)</li> <li>SUSE Linux Enterprise Server 9, 10, 11</li> <li>HP-UX 11.23, HP-UX 11.31 (with or without MC/ServiceGuard)</li> <li>Windows Server 2003 (using Microsoft Cluster Server)</li> <li>Windows Server 2003 (using Veritas Cluster Server)</li> <li>Windows Server 2008 (using Microsoft Failover Cluster)</li> <li>Windows Server 2008 R2 (using Microsoft Failover Cluster)</li> <li>Windows Server 2008 (using Veritas Cluster Server)</li> <li>Windows Server 2008 R2 (using Veritas Cluster Server)</li> <li>Solaris (SPARC) 9, 10</li> <li>AIX 6.x</li> <li>Oracle Enterprise Linux 5.x</li> </ul>	
Oracle 11g R2 RAC (including OCFS and CRS wherever applicable)	<ul style="list-style-type: none"> <li>HP-UX 11.31 (with or without MC/ServiceGuard)</li> <li>Red Hat Enterprise Linux 5.x, 6.3 (using Redhat Cluster Suite)</li> <li>SUSE Linux Enterprise Server 10, 11 (32bit) (x86), (64bit) (x64)</li> <li>Oracle Enterprise Linux 5.x, 6.3 (64-bit)</li> <li>AIX 6.x, 7.1 (64-bit)</li> <li>Windows Server 2003 (using Microsoft Cluster Server)</li> <li>Windows Server 2008 (using Microsoft Failover Cluster)</li> <li>Windows Server 2008 R2 (using Microsoft Failover Cluster)</li> <li>Solaris (SPARC) 10 (64-bit)</li> </ul>	
IBM DB2 Partitioned Database <sup>1</sup>	<ul style="list-style-type: none"> <li>HP-UX 11.23, 11.31 (Itanium)</li> <li>AIX 6.x, 7.1 (64-bit)</li> <li>RHEL Advanced Server2 5.x (64-bit) (x64)</li> <li>SUSE Linux Enterprise Server 10, 11(64-bit) (x64)</li> <li>Windows Server 2003 (x64)</li> <li>Windows Server 2008 (64-bit)(x64)</li> <li>Windows Server 2008 R2 (64-bit)(x64)</li> </ul>	
Lotus Domino 8.5 Cluster	<ul style="list-style-type: none"> <li>Windows 2008 (32-bit)</li> </ul>	

<sup>1</sup> DB2 partitioned databases support is currently limited to single host partitions.

Supported file systems	
Operating system	File systems
Windows XP Professional, Windows Server 2003 <sup>1</sup>	<ul style="list-style-type: none"> <li>NTFS 3.1 (including disk image backup of MBR disks only)</li> <li>FAT16, FAT32</li> <li>CIFS</li> </ul>
Windows Vista / Windows Server 2008	<ul style="list-style-type: none"> <li>NTFS 3.1(including disk image backup)</li> <li>FAT16, FAT32</li> <li>CIFS</li> </ul>
Windows 7 / Windows Server 2008 R2	<ul style="list-style-type: none"> <li>NTFS 3.1(including disk image backup)</li> <li>FAT16, FAT32</li> <li>CIFS</li> </ul>
Windows 8 / Windows Server 2012	<ul style="list-style-type: none"> <li>NTFS 3.1(including disk image backup)</li> <li>FAT32</li> <li>CIFS</li> <li>REFS<sup>4</sup></li> </ul>
Novell Open Enterprise Server	<ul style="list-style-type: none"> <li>NSS</li> </ul>
HP-UX <sup>1</sup>	<ul style="list-style-type: none"> <li>HFS (including rawdisk backup)</li> <li>NFS</li> <li>LOFS <sup>2</sup> (loopback file system)</li> <li>VxFS (including rawdisk backup)</li> </ul>

	<ul style="list-style-type: none"> <li>• DCE DFS</li> <li>• EVFS (HP-UX 11.23 only as rawdisk backup)</li> <li>• NetApp Filer NFS</li> </ul>
Solaris <sup>1</sup>	<ul style="list-style-type: none"> <li>• UFS</li> <li>• NFS</li> <li>• PC FS (MS DOS compatible file system)</li> <li>• HSFS</li> <li>• VxFS</li> <li>• Tmp FS</li> <li>• LOFS<sup>2</sup> (Loopback file system)</li> <li>• ZFS</li> </ul>
IBM AIX <sup>1</sup>	<ul style="list-style-type: none"> <li>• JFS (journaling file system)</li> <li>• JFS2</li> <li>• GPFS</li> <li>• VxFS</li> </ul>
SCO OpenServer <sup>1</sup>	<ul style="list-style-type: none"> <li>• HTFS (High Throughput file system)</li> <li>• DTFS</li> <li>• S51K</li> <li>• S52K</li> </ul>
Linux (Redhat, SUSE, Debian, Oracle Enterprise Linux, CentOS) <sup>1</sup>	<ul style="list-style-type: none"> <li>• ext, ext2, ext3, ext4</li> <li>• minix</li> <li>• xiafs</li> <li>• ReiserFS</li> <li>• VxFS</li> <li>• XFS<sup>3</sup></li> <li>• VFAT</li> <li>• SFS</li> <li>• NFS</li> <li>• GFS</li> <li>• GFS2</li> <li>• OCFS2</li> <li>• GPFS</li> <li>• ACFS</li> <li>• IBRIX (Extended attribute)</li> <li>• NetApp Filer NFS</li> </ul>
Open VMS	<ul style="list-style-type: none"> <li>• ODS-2</li> <li>• ODS-5</li> </ul>
Mac OS X Server	<ul style="list-style-type: none"> <li>• HFS+</li> </ul>

<sup>1</sup> Raw disk backup is supported.

<sup>2</sup> Raw disk backup is not supported.

<sup>3</sup> XFS is not supported on Red Hat Enterprise Linux, CentOS and OEL.

<sup>4</sup> Only raw disk backup is supported.

## ACL support

Operating system	File system	Number of ACL entries (basic/extended)
Windows XP Professional	NTFS	unlimited
Windows Server 2003	NTFS	unlimited
Windows Vista	NTFS	unlimited
Windows Server 2008	NTFS	unlimited
Windows 7	NTFS	unlimited
Windows Server 2008 R2	NTFS	unlimited

Windows 8	NTFS	unlimited
Windows Server 2012	NTFS	unlimited
HP-UX	HFS	3/16
HP-UX	VxFS	4/17 (1024) <sup>2</sup>
OpenVMS	ODS-2, ODS-5	Not Applicable
Solaris	UFS, VxFS (3.5), ZFS	1024
Linux	XFS (SLES 9)	3/25
	ReiserFS (SLES 9)	3/8191
	ext3	3/512
Mac OS X Server	HFS+	unlimited

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

<sup>2</sup> For HP-UX 11i v1 (11.11) maximum supported ACLs are 16  
For HP-UX 11i v2 and 11i v3 maximum supported ACLs are 1024