



## HP Data Protector 7.0 Platform and Integration Support Matrix

Version: 3.5

Date: March 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.

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 7 (32-bit)</li><li>Windows Server 2003 (64-bit) (x64)</li><li>Windows Server 2008 (32-bit)</li><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>14</sup></li><li>HP-UX (PA-RISC)<sup>6</sup> 11.31<sup>2,3</sup></li><li>HP-UX (Itanium)<sup>6</sup> 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 (64-bit) (x64)</li><li>SUSE Linux Enterprise Server 10, 11 (64-bit) (x64)</li></ul>
Installation Server	<ul style="list-style-type: none"><li>Windows 7 (32-bit)</li><li>Windows Server 2003 (64-bit) (x64)</li><li>Windows Server 2008 (32-bit)</li><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>HP-UX (PA-RISC)<sup>6</sup> 11.31<sup>2,3</sup></li><li>HP-UX (Itanium)<sup>6</sup> 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 (64-bit) (x64)</li><li>SUSE Linux Enterprise Server 10, 11 (64-bit) (x64)</li></ul>
Manager-of-Managers (MoM)	<ul style="list-style-type: none"><li>Windows Server 2003 (64-bit) (x64)</li><li>Windows Server 2008(64-bit) (x64)</li><li>Windows Server 2008 R2 (64-bit) (x64)</li><li>HP-UX (PA-RISC)<sup>6</sup> 11.31<sup>2,3</sup></li><li>HP-UX (Itanium)<sup>6</sup> 11.31<sup>2,3</sup></li></ul>

	<ul style="list-style-type: none"> <li>Red Hat Enterprise Linux (RHEL) <sup>4</sup> 5.x, 6.0, 6.1, 6.2, 6.3 (64-bit) (x64)</li> <li>SUSE Linux Enterprise Server 10, 11 (64-bit) (x64)</li> </ul>
Backup device server (Media Agent), including robotic control	<ul style="list-style-type: none"> <li>Windows XP Professional (32-bit)</li> <li>Windows XP (64-bit) (Itanium, x64)</li> <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 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 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 NetWare 6.5<sup>1</sup></li> <li>Novell Open Enterprise Server 2.0 for Linux (32-bit and 64-bit)</li> <li>Novell Open Enterprise Server 11.0 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>Tru64 5.xx</li> <li>OpenVMS 7.3-2<sup>1</sup>, 8.2-1<sup>1</sup>, 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, 11.1</li> <li>Sun Solaris 10, 11, 11.1 (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, 6.4 SUSE Linux Enterprise Server (SLES) 9, 10, 11 Oracle Enterprise Linux 4.x, 5.x, 6.0, 6.1, 6.2, 6.3, 6.4 Debian Linux 5.0 CentOS 5.x, 6.0, 6.1, 6.2, 6.3, 6.4</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 4.x, 5.x, 6.0, 6.1, 6.2, 6.3, 6.4, 6.5 (x64) Debian Linux 5.0 (Itanium, x64), 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 5.3, 6.x, 7.1</li> <li>SCO OpenServer 5.0.7</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) (Itanium, x64)</li> <li>Windows Vista (32-bit)<sup>16</sup></li> <li>Windows 7 (32-bit)</li> <li>Windows Vista (64-bit) (x64)<sup>16</sup></li> <li>Windows 7 (64-bit) (x64)</li> <li>Windows 8 (32-bit)</li> <li>Windows 8 (64-bit)</li> <li>Windows 8.1 (64-bit) (x64)</li> <li>Windows Server 2003 (32-bit)<sup>16</sup></li> <li>Windows Server 2003 (64-bit) (Itanium, x64)<sup>16</sup></li> <li>Windows Server 2008 (32-bit)<sup>16</sup></li> <li>Windows Server 2008 (64-bit) (Itanium, x64)<sup>16</sup></li> </ul>

- Windows Server 2008 R2 (64-bit)(x64, Itanium)
- Windows Server 2008 Core (32bit) <sup>16</sup>
- Windows Server 2008 Core (64-bit) (Itanium, x64) <sup>16</sup>
- Windows Server 2008 R2 Core (64-bit) (x64)
- Windows Small Business Server 2011 (64-bit) (x64)
- Windows Server 2012 (64-bit) (x64)
- Windows Server 2012 R2 (64-bit) (x64)
- Novell NetWare 6.5<sup>1</sup>
- Novell Open Enterprise Server 2.0 for Linux (32-bit and 64-bit)
- Novell Open Enterprise Server 11.0, 11.1 for Linux (64-bit)
- 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>
- Sun Solaris (SPARC) 9, 10, 11<sup>9</sup>, 11.1<sup>9</sup>
- Sun Solaris (x86, x64) 10, 11<sup>9</sup>, 11.1<sup>9</sup>
- IBM AIX 5.3, 6.x, 7.1<sup>7</sup>
- SGI IRIX 6.5
- SCO OpenServer 5.0.7, 6.0.0
- SCO UnixWare 7.1.4
- Tru64 5.xx
- Open VMS 7.3-2<sup>1</sup>, 8.2<sup>1</sup>, 8.3<sup>1</sup>, 8.4<sup>1</sup> (Alpha)
- OpenVMS 8.3<sup>1</sup>, 8.3-1H1<sup>1</sup>, 8.4<sup>1</sup> (Itanium)
- Mac OS X 10.5.x (32-bit)
- Mac OS X 10.6.x (64-bit) (x64)
- Linux (32-bit): Red Hat Enterprise Linux (RHEL) <sup>4</sup> 4.x, 5.x, 6.0, 6.1, 6.2, 6.3, 6.4  
SUSE Linux Enterprise Server (SLES) 9, 10, 11  
Oracle Enterprise Linux 4.x, 5.x, 6.0, 6.1, 6.2, 6.3, 6.4  
Debian Linux 5.0, 6.0  
CentOS 5.x, 6.0, 6.1, 6.2, 6.3, 6.4
- Linux (64-bit): Red Hat Enterprise Linux (RHEL) <sup>4</sup> 4.x, 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 4.x, 5.x, 6.0, 6.1, 6.2, 6.3, 6.4, 6.5(x64)  
Debian Linux 5.0 (Itanium), 6.0, 7.0 (x64)  
CentOS 5.x, 6.0, 6.1, 6.2, 6.3, 6.4, 6.5(x64)  
Ubuntu Linux 12.x (x64)
- additional UNIX platforms via NFS (on UNIX systems)
- additional platforms via shared disks (CIFS /SMB 1 or 2 on Windows systems)

Backup Agents (disk agents) for file system, raw disk and IDB backup using AES encryption

- Windows XP Professional (32-bit)
- Windows Vista (32-bit)
- Windows Vista (64-bit) (x64)
- Windows 8 (32-bit)
- Windows 8 (64-bit)
- Windows 8.1 (64-bit) (x64)
- Windows Server 2003 (32-bit)
- Windows Server 2003 (64-bit) (Itanium, x64)
- Windows Server 2008 (32-bit)
- Windows Server 2008 (64-bit) (Itanium, x64)
- Windows Server 2008 R2 (64-bit) (Itanium, x64)
- Windows Server 2012 (64-bit) (x64)
- Windows Server 2012 R2 (64-bit) (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>4</sup> 5.x, 6.0, 6.1, 6.2, 6.3, 6.4  
SUSE Linux Enterprise Server (SLES) 10, 11
- Linux (64-bit): Red Hat Enterprise Linux (RHEL) <sup>4</sup> 5.x (Itanium, x64)

	<p>Red Hat Enterprise Linux (RHEL) <sup>4</sup> 6.0, 6.1, 6.2, 6.3, 6.4 (x64)  SUSE Linux Enterprise Server (SLES) 9, 10 and 11 (Itanium, x64)  Ubuntu Linux 12.x (x64)</p>
Backup device server (Media Agent), including robotic control using LTO drive based encryption (AES-GCM)	<ul style="list-style-type: none"> <li>Windows XP Professional (32-bit)</li> <li>Windows XP Professional (64-bit) (Itanium, x64)</li> <li>Windows Vista (32-bit)</li> <li>Windows Vista (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>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  Oracle Enterprise Linux 6.0, 6.0, 6.1, 6.2, 6.3, 6.4</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 (x64)</li> </ul>
Backup device server (Media Agent), including robotic control for HP VLS Automigration <sup>5</sup>	<ul style="list-style-type: none"> <li>Windows XP Professional (32-bit)</li> <li>Windows XP (64-bit) (Itanium, x64)</li> <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 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 Core (32 bit, 64-bit) (Itanium, x64)</li> <li>Windows Server 2008 R2 (64-bit) (Itanium, x64)</li> <li>HP-UX (PA-RISC) 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</li> <li>Linux (32-bit): Red Hat Enterprise Linux (RHEL) <sup>4</sup> 5.x  SUSE Linux Enterprise Server (SLES) 9, 10 and 11  Oracle Enterprise Linux 4.x, 5.x  Debian Linux 5.0</li> <li>Linux (64-bit): Red Hat Enterprise Linux (RHEL) <sup>4</sup> 5.x (Itanium, x64)  SUSE Linux Enterprise Server (SLES) 9,10,11 (Itanium, x64)  Oracle Enterprise Linux 4.x, 5.x  Debian Linux 5.0(Itanium)</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>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)</li> </ul>
Backup device server (Media Agent) with Deduplication <sup>8,12</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> </ul>

- Linux (64-bit): Red Hat Enterprise Linux (RHEL) <sup>4</sup> 5.x, 6.x (x64)  
SUSE Linux Enterprise Server (SLES) 10, 11 (x64)

- 1 Push installation not possible, need to be installed locally.
- 2 NIS+ is supported in a DNS environment.
- 3 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.
- 4 Includes support for Red Hat Enterprise Linux Advanced Server, Advanced Workstation and Enterprise Server if applicable.
- 5 VLS Automigration is currently only supported with VLS firmware 2.3.
- 6 Supported only on HP-UX (PA-RISC and Itanium) 64-bit.
- 7 Includes support for Veritas Cross-Platform Data Sharing (CDS) disk.
- 8 Support is available on HP StoreOnce B6200 Backup System with the firmware version 3.2.0 and newer, HP StoreOnce VSA and HP StoreOnce Backup Systems 2000 and 4000 series with the firmware 3.4.0 and newer.
- 9 System Extended Attributes are not supported.
- 12 Data Protector control of copy between backup appliances is only supported between StoreOnce Catalyst-enabled appliances. It is not supported between other HP disk backup appliances. For B6200 appliances Backup, Copy and Replication are not supported in an IPv6 only environment.
- 14 Cell Server is not supported on MS Cluster.
- 16 Requires installation of Windows patch KB2748349.

## Supported CLI platforms and localization

Operating system	Supported local languages
Windows	<ul style="list-style-type: none"> <li>• English</li> </ul>
HP-UX	<ul style="list-style-type: none"> <li>• English</li> </ul>
Solaris	<ul style="list-style-type: none"> <li>• English</li> </ul>
Linux	<ul style="list-style-type: none"> <li>• English</li> </ul>
IBM AIX	<ul style="list-style-type: none"> <li>• English</li> </ul>
Novell NetWare, Novell Open Enterprise Server	<ul style="list-style-type: none"> <li>• English</li> </ul>
SGI IRIX	<ul style="list-style-type: none"> <li>• English</li> </ul>
SCO OpenServer, SCO Unixware	<ul style="list-style-type: none"> <li>• English</li> </ul>
Tru64 UNIX	<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 XP Home Edition<sup>2</sup></li> <li>• Windows XP Professional (32-bit)</li> <li>• Windows XP Professional (64-bit) (Itanium, x64)</li> <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 2003 (32-bit)</li> </ul>

	<ul style="list-style-type: none"> <li>Windows Server 2003 (64-bit) (Itanium, 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 x64 (x64)</li> </ul>
Java GUI Client <sup>6</sup>	<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 7 (32-bit)</li> <li>Windows 7 (64-bit) (x64)</li> <li>Windows Server 2003 (32-bit)</li> <li>Windows Server 2003 (64-bit) (x64)</li> <li>Windows Server 2008 (32-bit)</li> <li>Windows Server 2008, Windows Server 2008 R2 (64-bit) (x64)</li> <li>HP-UX (PA-RISC) – 11.11<sup>3,4</sup>, 11.23<sup>3,4</sup>, 11.31<sup>3,4</sup></li> <li>HP-UX (Itanium) -- 11.23<sup>3,4</sup>, 11.31<sup>3,4</sup></li> <li>Solaris (SPARC) 9, 10</li> <li>Red Hat Enterprise Linux (RHEL)<sup>5</sup> 4.x, 5.x, 6.0, 6.1, 6.2 (64-bit) (x64)</li> <li>SUSE Linux Enterprise Server 9, 10 and 11 (64-bit) (x64)</li> </ul>

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

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

<sup>2</sup> Push installation not possible, need to be installed locally.

<sup>3</sup> NIS+ is supported in a DNS environment.

<sup>4</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>5</sup> Includes support for Red Hat Enterprise Linux Advanced Workstation and Enterprise Server if applicable.

<sup>6</sup> Java GUI Client is available as part of Data Protector 7.00 release but it will not be supported. The Java GUI Client component will not be available in the forthcoming Data Protector releases.

### Platform restrictions for supported operating systems

Operating system	Supported processor platforms	
HP-UX	PA-RISC Itanium	(HP-UX 11.11, 11.23, 11.31) (HP-UX 11.23, 11.31)
Windows	x86, x86_64 Itanium, x86_64	(for 32-bit Windows) (for 64-bit Windows)
Linux	x86, x86_64 Itanium, x86_64	(for 32-bit Linux) (for 64-bit Linux)
Sun Solaris	SPARC x86, x86_64	(for Solaris 10,11 Disk Agent and Media Agent only)
OpenVMS	Alpha, Itanium	
Mac OS X Server	x86 x86_64	(Mac OS X 10.5.x) (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</li> </ul>	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 R2 (64-bit)(x64)  Windows Server 2008 Core (32bit)  Windows Server 2008 Core (64-bit) (x64)  Windows Server 2008 R2 Core (64-bit) (x64)</p>
Autonomy Connector Framework Server	<ul style="list-style-type: none"> <li>Autonomy Connector Framework Server 7.6</li> </ul>	<p>Windows Server 2003 (32-bit)  Windows Server 2008 R2 (64-bit)</p>
Oracle (32-bit) (including Oracle Data Guard/Standby Database support)	<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 11g R2/ Recovery Manager<sup>1</sup>:</li> </ul>	<p>Windows Server 2003 (32-bit)  Windows Server 2008 (32-bit)  Oracle Enterprise Linux 4.x, 5.x (32-bit)  RHEL Advanced Server<sup>2</sup> 4.x, 5.x (32-bit)  SUSE Linux Enterprise Server 8, 9, 10, 11 (32-bit)  Windows Server 2003 (32-bit)  Windows Server 2008 (32-bit)  RHEL Advanced Server<sup>2</sup> 4.x, 5.x (32-bit)  SUSE Linux Enterprise Server 10, 11 (32-bit)  Oracle Enterprise Linux 4.x, 5.x (32-bit)  RHEL Advanced Server<sup>2</sup> 4.x, 5.x (32-bit)  SUSE Linux Enterprise Server 10, 11 (32-bit)  Oracle Enterprise Linux 4.x, 5.x (32-bit)  Windows Server 2003 (32-bit)  Windows Server 2008 (32-bit)</p>
Oracle (64-bit) (Including Oracle Data Guard/Standby Database support)	<ul style="list-style-type: none"> <li>Oracle 10g, 10g R2/ Recovery Manager<sup>1</sup>:</li> <li>Oracle 11g/ Recovery Manager<sup>1</sup>:</li> <li>Oracle 11g R2/ Recovery Manager<sup>1</sup>:</li> </ul>	<p>HP-UX 11.11 (64-bit)  HP-UX 11.23 (64-bit) (Itanium, PA-RISC)  HP-UX 11. 31 (64-bit) (Itanium, PA-RISC)  Solaris (SPARC) 9, 10 (64-bit)  Solaris 10 (64-bit) (x64)  Windows Server 2003 (64-bit) (Itanium, x64)  Windows Server 2008 (64-bit) (x64)  AIX 5.3, 6.x (64-bit)  OpenVMS 7.3-2, 8.x (Alpha, Itanium)  Tru64 5.xx  Oracle Enterprise Linux 4.x, 5.x (64-bit)  RHEL Advanced Server<sup>2</sup> 4.x, 5.x (64-bit) (Itanium, x64)  SUSE Linux Enterprise Server 8 (64-bit) (Itanium)  SUSE Linux Enterprise Server 9(64-bit) (Itanium, x64)  SUSE Linux Enterprise Server 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 5.3, 6.x (64-bit)  RHEL Advanced Server<sup>2</sup> 4.x, 5.x (64-bit) (Itanium, x64)  RHEL Advanced Server<sup>2</sup> 6.0, 6.1, 6.2 (64-bit) (x64)  SUSE Linux Enterprise Server 10, 11 (64-bit) (x64)  Oracle Enterprise Linux 4.x, 5.x (64-bit) (x64)  HP-UX 11.31 (64-bit) (Itanium, PA-RISC)  RHEL Advanced Server<sup>2</sup> 4.x, 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 4.x, 5.x, 6.0, 6.1, 6.2, 6.3, 6.4 (64-bit) (x64)  CentOS 6.4 (64-bit)(x64)</p>

		Windows Server 2003 (64-bit) (x64) Windows Server 2008 (64-bit) (x64) Windows Server 2008 R2 (64-bit) (x64) AIX 5.3, 6.x, 7.1 (64-bit) Solaris (SPARC) 10, 11 <sup>12</sup> (64-bit)
Informix (32-bit)	<ul style="list-style-type: none"> <li>• Informix IDS 11.1, 11.5:</li> <li>• Informix IDS 11.7:</li> </ul>	HP-UX 11.11 (32-bit, 64-bit) Solaris (SPARC) 9, 10 (32-bit, 64-bit) Windows Server 2003 (32-bit) Windows Server 2008 (32-bit) SUSE Linux Enterprise Server 10, 11 (32-bit) RHEL Advanced Server <sup>2</sup> 5.x (32-bit) RHEL Advanced Server <sup>2</sup> 5.6, 6.0, 6.1, 6.2 (32-bit) Windows Server 2003 (32-bit)
Informix (64-bit)	<ul style="list-style-type: none"> <li>• Informix IDS 11.1, 11.5:</li> <li>• Informix IDS 11.7:</li> <li>• Informix IDS 12.10:</li> </ul>	HP-UX 11.11 (64-bit) HP-UX 11.23, 11.31 (64-bit) (Itanium, PA-RISC) Solaris (SPARC) 9, 10 (64-bit) AIX 5.3, 6.x (64-bit) RHEL Advanced Server <sup>2</sup> 4.x, 5.x (64-bit) (x64) SUSE Linux Enterprise Server 10, 11 (64-bit) (x64) Windows Server 2003 (x64) HP-UX 11.31 (64-bit)(Itanium, PA-RISC) Solaris (SPARC) 10 (64-bit) RHEL Advanced Server <sup>2</sup> 6.0, 6.1, 6.2 (64-bit) (x64) SUSE Linux Enterprise Server 11 (64-bit) (x64) Windows Server 2008 R2 (x64) AIX 6.1, 7.1 (64-bit) HP-UX 11.31 (64-bit)(Itanium)
Sybase (32-bit)	<ul style="list-style-type: none"> <li>• Sybase Adaptive Server Enterprise 15.x:</li> </ul>	RHEL Advanced Server <sup>2</sup> 5.x (32-bit) Windows Server 2003 R2 (32-bit)
Sybase (64-bit)	<ul style="list-style-type: none"> <li>• Sybase Adaptive Server Enterprise 15.x:</li> <li>• Sybase Adaptive Server Enterprise 15.7:</li> </ul>	HP-UX 11.23, 11.31 (Itanium, PA-RISC) Solaris (SPARC) 9, 10 (64-bit) RHEL Advanced Server <sup>2</sup> 5.x (64-bit) (x64) AIX 5.3, 6.x (64-bit) RHEL Advanced Server <sup>2</sup> 6.0, 6.1, 6.2, 6.3, 6.4, 6.5 (64-bit) (x64) SUSE Linux Enterprise Server 11 (64-bit) (x64) Windows Server 2008 R2 (64-bit) (x64) Solaris (SPARC) 10 (64-bit) AIX 7.1 (64-bit)
Microsoft SQL Server (32-bit)	<ul style="list-style-type: none"> <li>• Microsoft SQL Server 2000<sup>7</sup>:</li> <li>• Microsoft SQL Server 2005<sup>7</sup>:</li> <li>• Microsoft SQL Server 2008<sup>7,17</sup>:</li> <li>• Microsoft SQL Server 2008 R2<sup>7,13,17</sup>:</li> <li>• Microsoft SQL Server 2012<sup>7,17</sup>:</li> </ul>	Windows Server 2003 (32-bit) Windows Server 2003 (32-bit) Windows Server 2008 (32-bit) Windows Server 2003 (32-bit) Windows Server 2008 (32-bit) Windows Server 2003 (32-bit) Windows Server 2008 (32-bit) Windows Server 2008 (32-bit)
Microsoft SQL Server (64-bit)	<ul style="list-style-type: none"> <li>• Microsoft SQL Server 2000<sup>7</sup>:</li> <li>• Microsoft SQL Server 2005<sup>3,7</sup>:</li> <li>• Microsoft SQL Server 2008<sup>7,17</sup>:</li> <li>• Microsoft SQL Server 2008 R2<sup>7,13,17</sup>:</li> </ul>	Windows Server 2003 (64-bit) (Itanium) Windows Server 2003 (64-bit) (Itanium, x64) Windows Server 2008 (64-bit) (Itanium, x64) Windows Server 2003 (64-bit) (Itanium, x64) Windows Server 2008 (64-bit) (Itanium, x64) Windows Server 2008 R2 (64-bit) (Itanium, x64) Windows Server 2003 (64-bit) (Itanium, x64) Windows Server 2008 (64-bit) (Itanium, x64)



	<ul style="list-style-type: none"> <li>• Microsoft SQL Server 2012<sup>7,17</sup>:</li> </ul>	<p>Windows Server 2008 R2 (64-bit) (Itanium, x64)  Windows Small Business Server 2011 (64-bit) (x64)  Windows Server 2008 (64-bit) (x64)  Windows Server 2008 R2 (64-bit) (x64)  Windows Server 2012 (64-bit) (x64)</p>
Microsoft SharePoint	<ul style="list-style-type: none"> <li>• Microsoft SharePoint Portal Server 2003:</li> <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> <li>• Microsoft SharePoint Foundation 2010:</li> <li>• Microsoft SharePoint Foundation 2013:</li> </ul>	<p>Windows Server 2003 (32-bit)  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 (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)  Windows Server 2008 (32-bit)  Windows Server 2008 (64-bit) (x64)  Windows Server 2008 (64-bit) (x64)  Windows Server 2008 R2 (64-bit) (x64)  Windows Server 2008 R2 (SP1) (x64)  Windows Server 2012 (x64)</p>
Microsoft Exchange Server (including single mailbox and single folder restore)	<ul style="list-style-type: none"> <li>• Microsoft Exchange Server 2003:</li> <li>• Microsoft Exchange Server 2007:</li> <li>• Microsoft Exchange Server 2010:</li> </ul>	<p>Windows Server 2003 (32-bit)  Windows Server 2003 (64-bit) (x64)  Windows Server 2008 (64-bit) (x64)  Windows Server 2008 R2 (64-bit) (x64)</p>
Microsoft Exchange Server (including single mailbox and folder and DAG backup / restore)	<ul style="list-style-type: none"> <li>• Microsoft Exchange Server 2010:</li> </ul>	<p>Windows Server 2008<sup>9</sup> (64-bit) (x64)  Windows Server 2008 R2<sup>9</sup> (64-bit) (x64)  Windows Small Business Server 2011 (64-bit) (x64)  Windows Server 2012<sup>9, 14, 15</sup> (64-bit) (x64)</p>
Microsoft Data Protection Manager (DPM)	<ul style="list-style-type: none"> <li>• Data Protection Manager 2007:</li> <li>• Data Protection Manager 2010:</li> </ul>	<p>Windows Server 2003 (x64)  Windows Server 2003 (x64)  Windows Server 2008 (64-bit) (x64)  Windows Server 2008 R2 (64-bit) (x64)</p>
IBM DB2 (32-bit)	<ul style="list-style-type: none"> <li>• IBM DB2 UDB 9.1:</li> <li>• IBM DB2 UDB 9.5:</li> <li>• IBM DB2 UDB 9.7:</li> <li>• IBM DB2 10.1, 10.5:</li> </ul>	<p>RHEL Advanced Server<sup>2</sup> 4.x, 5.x (32-bit)  SUSE Linux Enterprise Server 8, 9, 10, 11 (32-bit)  Windows Server 2003 (32-bit)  AIX 5.3, 6.x (32-bit, 64-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 5.3, 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 5.3, 6.x (32-bit, 64-bit)  RHEL Advanced Server 6.x (32-bit)</p>

		SUSE Linux Enterprise Server 10, 11 (32-bit)
IBM DB2 (64-bit)	<ul style="list-style-type: none"> <li>IBM DB2 UDB 9.1:</li> <li>IBM DB2 UDB 9.5:</li> <li>IBM DB2 UDB 9.7:</li> <li>IBM DB2 10.1, 10.5 <sup>11</sup>:</li> </ul>	<p>HP-UX 11.11 (64-bit)  HP-UX 11.23, 11.31 (Itanium, PA-RISC)  AIX 5.3, 6.x (64-bit)  RHEL Advanced Server<sup>2</sup> 4.x (64-bit) (x64)  SUSE Linux Enterprise Server 9, 10,11 (64-bit) (x64)  Windows Server 2003 (x64)</p> <p>HP-UX 11.23, 11.31 (Itanium)  AIX 5.3, 6.x (64-bit)  RHEL Advanced Server<sup>2</sup> 5.x (64-bit) (x64)  SUSE Linux Enterprise Server 10, 11(64-bit) (x64)  Windows Server 2003 (x64)  Windows Server 2008 (64-bit)(x64)  Windows Server 2008 R2 (64-bit)(x64)</p> <p>HP-UX 11.23, 11.31 (Itanium)  AIX 5.3, 6.x, 7.1 (64-bit)  RHEL Advanced Server<sup>2</sup> 5.x, 6.0 (64-bit) (x64)  SUSE Linux Enterprise Server 10 , 11(64-bit) (x64)  Windows Server 2003 (x64)  Windows Server 2008 (64-bit)(x64)  Windows Server 2008 R2 (64-bit)(x64)</p> <p>HP-UX 11.31 (Itanium)  AIX 7.1 (64-bit)  RHEL Advanced Server 6.0, 6.1, 6.2, 6.3, 6.4 (64-bit) (x64)  SUSE Linux Enterprise Server 10, 11 (64-bit) (x64)  Windows Server 2008 R2 (64-bit)(x64)</p>
Lotus Notes, Lotus Domino (32-bit) (including single mailbox backup and restore)	<ul style="list-style-type: none"> <li>Lotus Domino/Notes 7.0.x</li> <li>Lotus Domino/Notes 8.0.x</li> <li>Lotus Domino/Notes 8.5.x</li> </ul>	<p>Windows Server 2003 (32-bit)  Windows Server 2003 (64-bit)(x64)  AIX 5.3 (64-bit)</p> <p>Windows Server 2003 (32-bit)  Windows Server 2008 (32-bit)  AIX 5.3, 6.x (64-bit)  Solaris 10 (SPARC)</p> <p>Windows Server 2003 (32-bit)  Windows Server 2008 (64-bit) (x64)  Windows Server 2008 R2 (64-bit) (x64)  AIX 5.3, 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)</p>
Lotus Notes, Lotus Domino (64-bit) (including single mailbox backup and restore)	<ul style="list-style-type: none"> <li>Lotus Domino/Notes 8.0.x</li> <li>Lotus Domino/Notes 8.5.x</li> <li>IBM Notes and Domino 9.0.x</li> </ul>	<p>Windows Server 2003 (64-bit)(x64)  Windows Server 2008 (64-bit) (x64)  Windows Server 2008 R2 (64-bit) (x64)  AIX 5.3, 6.x (64-bit)  Solaris 10 (SPARC)</p> <p>Windows Server 2003 (64-bit)(x64)  Windows Server 2008 (64-bit) (x64)  Windows Server 2008 R2 (64-bit) (x64)  AIX 5.3, 6.x, 7.1 (64-bit)  Solaris 10 (SPARC)</p> <p>Windows Server 2012 (64-bit) (x64)  AIX 7.1 (64-bit)  RHEL Advanced Server 6.3 (64-bit) (x64)</p>

<p>SAPDB / MaxDB (32-bit) (online integration based on 'Backint for SAPDB / MaxDB')</p>	<ul style="list-style-type: none"> <li>• MaxDB version 7.6:</li> <li>• MaxDB version 7.7:</li> <li>• MaxDB version 7.8:</li> </ul>	<p>SUSE Linux Enterprise Server 11 (64-bit) (x64) 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)</p>
<p>SAPDB / MaxDB (64-bit) (online integration based on 'Backint for SAPDB / MaxDB')</p>	<ul style="list-style-type: none"> <li>• MaxDB version 7.6:</li> <li>• MaxDB version 7.7:</li> <li>• MaxDB version 7.8:</li> <li>• MaxDB version 7.9</li> </ul>	<p>HP-UX 11.11 (64-bit) HP-UX 11.23, 11.31 (PA-RISC, Itanium) Windows Server 2003 (64-bit) (Itanium, x64) SLES 9, 10 (64-bit) (Itanium, x64) RHEL Advanced Server<sup>2</sup> 4.x, 5.x (64-bit) (Itanium, x64) AIX 6.1 (x64) HP-UX 11.11 (64-bit) HP-UX 11.23, 11.31 (PA-RISC, Itanium) Windows Server 2003 (64-bit) (Itanium, x64) Windows Server 2008 (64-bit) (Itanium, x64) SLES 9, 10, 11 (64-bit) (Itanium, x64) RHEL Advanced Server<sup>2</sup> 4.x (64-bit) (Itanium, x64) RHEL Advanced Server<sup>2</sup> 5.x (64-bit) (x64) 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) 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)</p>
<p>SAP NetWeaver<sup>4</sup> (32-bit)</p>	<ul style="list-style-type: none"> <li>• SAP BR*Tools 7.0, using backint or RMAN mode:</li> <li>• SAP BR*Tools 7.1, using backint or RMAN mode:</li> <li>• SAP BR*Tools 7.2, using backint or RMAN mode:</li> </ul>	<p>Windows Server 2003 (32-bit) SUSE Linux Enterprise server 8, 9, 10, 11 RHEL Advanced Server<sup>2</sup> 4.x, 5.x Windows Server 2003 (32-bit) SUSE Linux Enterprise server 10, 11 RHEL Advanced Server<sup>2</sup> 5.x RHEL Advanced Server<sup>2</sup> 5.x, 6.0, 6.1, 6.2 SUSE Linux Enterprise server 11</p>
<p>SAP NetWeaver<sup>4</sup> (64-bit)</p>	<ul style="list-style-type: none"> <li>• SAP BR*Tools 7.0, using backint or RMAN mode:</li> <li>• SAP BR*Tools 7.1, using</li> </ul>	<p>HP-UX 11.11(64-bit) HP-UX 11.23, 11.31 (64-bit) (Itanium, PA-RISC) Windows Server 2003 (64-bit) (Itanium, x64) Windows Server 2008 (64-bit) (Itanium, x64) Solaris (SPARC) 9,10 AIX 5.3, 6.x (64-bit) RHEL Advanced Server<sup>2</sup> 4.x, 5.x (Itanium, x64) SLES 9, 10, 11 (64-bit) (Itanium, x64) HP-UX 11.23, 11.31 (64-bit) (Itanium, PA-RISC)</p>

2003 (64-bit) (Itanium, x64)	backint or RMAN mode:	Windows Server
<ul style="list-style-type: none"> <li>SAP BR*Tools 7.2, using backint or RMAN mode:<sup>6</sup></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>Solaris (SPARC) 9,10</li> <li>AIX 5.3, 6.x (64-bit)</li> <li>RHEL Advanced Server<sup>2</sup> 4.x, 5.x (Itanium, x64)</li> <li>SLES 9, 10, 11 (64-bit) (Itanium, x64)</li> <li>HP-UX 11.31 (64-bit) (Itanium, PA-RISC)</li> <li>Windows Server 2003 (64-bit) (Itanium, x64)</li> <li>Windows Server 2008 (64-bit) (x64)</li> <li>Windows Server 2008 R2 (64-bit) (x64)</li> <li>Solaris (SPARC) 9,10, 11</li> <li>AIX 6.x, 7.1 (64-bit)</li> <li>RHEL Advanced Server<sup>2</sup> 5.x (Itanium, x64)</li> <li>RHEL Advanced Server<sup>2</sup> 6.0, 6.1, 6.2, 6.3 (64-bit) (x64)</li> <li>SLES 11(64-bit) (Itanium, x64)</li> <li>Oracle Enterprise Linux 6.0, 6.1, 6.2, 6.3 (64-bit) (x64)</li> </ul>	
SAP HANA (64-bit) <sup>16</sup>	<ul style="list-style-type: none"> <li>SAP HANA 1.0</li> </ul>	SLES 11.1, 11.2 (64-bit) (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>	

<sup>1</sup> Oracle 10g and 11g covers all released versions of Oracle 10g, 10g R2, 11g and 11g R2: i.e. 10.x.x, 11x.x.

<sup>2</sup> Includes support for Red Hat Enterprise Linux Advanced Workstation and Enterprise Server also.

<sup>3</sup> Sharepoint Granular Recovery Extension is also supported.

<sup>4</sup> 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.

<sup>5</sup> 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 7.00 Integration Guide*.

<sup>6</sup> 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 libnzz11.so libnzz10.so
```

<sup>7</sup> For MS SQL integration fast direct mode backup, Data Protector client based AES encryption is not supported.

<sup>8</sup> Microsoft FAST Search Server for SharePoint 2010 is supported.

<sup>9</sup> Microsoft Exchange Server Granular Recovery Extension is also supported.

<sup>10</sup> The Autonomy LiveVault Agent supports only Windows File System backup.

<sup>11</sup> Supported with patch bundle 7.0.3.

<sup>13</sup> Support is also available for Microsoft SQL Server 2008 R2 Express edition. Please refer to Microsoft websites for supported Operating Systems/Platforms.

<sup>14</sup> Microsoft Exchange Server Granular Recovery Extension is supported with SSPNT700\_033.

<sup>15</sup> Supported on Windows 2012 only with Exchange Server 2010 SP3

<sup>16</sup> SAP HANA is supported with following patches: SSPNT700\_035, SSPLNX700\_019, SSPUX700\_018.

<sup>17</sup> 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

HP Data Protector Open File

### Supported databases and integrations

- HP Data Protector

Windows XP<sup>1</sup>

Manager	Open File Manager 9.x <ul style="list-style-type: none"> <li>HP Data Protector Open File Manager 10.02</li> </ul>	Windows Server 2003 <sup>1</sup> Novell NetWare 6.5 Windows Server 2008 (x64) <sup>1</sup>
Citrix MetaFrame <sup>2</sup>	<ul style="list-style-type: none"> <li>Citrix Meta Frame version 1.00 Service Pack 3</li> </ul>	Windows Server 2003
HP Network Node Manager	<ul style="list-style-type: none"> <li>HP Network Node Manager 7.01</li> </ul>	HP-UX 11.11 Solaris 9
HP File Migration Agent	<ul style="list-style-type: none"> <li>FMA Client 2.x</li> </ul>	Windows Server 2003 Red Hat Enterprise Linux 3.0 SUSE Linux Enterprise Server 8 Windows Server 2008 (32-bit & 64-bit) <sup>3</sup>
HP FSE	<ul style="list-style-type: none"> <li>FSE Client 3.4:</li> <li>FSE Server 3.4:</li> </ul>	Windows Server 2003 SUSE Linux Enterprise Server 8 Windows Server 2003 SUSE Linux Enterprise Server 8
All HSM software based on the Windows NTFS offline feature		Windows Server 2003 and higher
HP Operations Manager for Windows	<ul style="list-style-type: none"> <li>OM for Windows Management Server English: OM for Windows 8.1x (32 bit) OM for Windows 9.0 (64 bit 2008 R2)</li> <li>OMW Managed Node (= Data Protector Cell Manager): on all Data Protector 7.00 Cell Manager platforms where OM Agent is available.</li> </ul>	
HP Operations Manager for Unix	<ul style="list-style-type: none"> <li>OM for Unix Management Server English and Japanese: OM for Unix 8.1x, 8.2x, 8.3x including Service Navigator(English and Japanese) OM for Unix 9 including Service Navigator(English only)</li> <li>OMU Managed Node (= Data Protector Cell Manager): on all Data Protector 7.00 Cell Manager platforms where the OM Agent is available</li> </ul>	
HP Operations Manager for Linux	<ul style="list-style-type: none"> <li>OM for Linux Management Server English: OM for Linux 9.0 including Service Navigator</li> <li>OML Managed Node (= Data Protector Cell Manager): on all Data Protector 7.00 Cell Manager platforms where the OM Agent is available</li> </ul>	

<sup>1</sup> On these platforms it is recommended to use the built-in Microsoft VSS (Volume Shadow copy Service) instead of Open File Manager (OFM). VSS is seamlessly integrated with HP Data Protector to provide backup of open files. VSS can be enabled for Open File Backup in the HP Data Protector Filesystem Backup Specification under Advanced Filesystem Options in the "WinFS Options" tab by check marking "Use Shadow Copy". VSS based file system backup of open files is included as part of the HP Data Protector base products (Starter Packs, Single Server Editions) and it does not require either additional HP Data Protector licensing or the Data Protector VSS module. Open File Manager might interfere with VSS or other file system related applications, for example virus scanners.

<sup>2</sup> If Citrix database is based on a Databases for which Data Protector online integration is supported, such 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 data which does not belong to the database, ordinary Disk Agent should be used. Data Protector Cell Manager and Citrix can co-exist on the same system.

<sup>3</sup> Supported only for FMA Client 2.5.x.

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:</li> <li>• HP MC/ServiceGuard 11.1x:</li> <li>• HP MC/ServiceGuard 11.2x:<sup>1</sup></li> <li>• HP MC/ServiceGuard for Linux:<sup>2, 8</sup></li> <li>• HP MC/ServiceGuard for Linux:<sup>2, 8</sup></li> </ul>	<p>HP-UX 11.11  HP-UX 11.23, 11.31 (PA-RISC, Itanium)  HP-UX 11.31 (PA-RISC, Itanium)  Red Hat Enterprise Linux 4.x, 5.x  SUSE Linux Enterprise Server 8, 9, 10, 11</p>
Microsoft Cluster Server	<ul style="list-style-type: none"> <li>• Microsoft Cluster Server<sup>6</sup>:</li> <li>• Microsoft Failover Cluster<sup>6</sup>:</li> </ul>	<p>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>7</sup> (64-bit) (x64)</p>
Sun Cluster	<ul style="list-style-type: none"> <li>• Sun Cluster:</li> </ul>	<p>Solaris 10 (SPARC)</p>
Tru64 Cluster <sup>3</sup>	<ul style="list-style-type: none"> <li>• TruCluster 5.x (Disk Agent, Oracle, SAP):</li> </ul>	<p>Tru64 5.xx</p>
Veritas Cluster Server	<ul style="list-style-type: none"> <li>• Veritas Cluster Server 4.0: (Disk Agent, Oracle)</li> <li>• Veritas Cluster Server 4.1: (Disk Agent, Oracle)</li> <li>• Veritas Cluster Server 4.3: (Disk Agent, Oracle, Exchange Server 2003)</li> <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>	<p>Solaris 9  Solaris 9, 10  Solaris 10  Windows Server 2003 (32-bit)  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 (64bit)(x64)  SLES 11(64bit)(x64)</p>
NetWare Cluster	<ul style="list-style-type: none"> <li>• NetWare Cluster Services 1.7:</li> </ul>	<p>NetWare 6.5</p>
Novell OES Cluster	<ul style="list-style-type: none"> <li>• Novell OES Cluster:</li> <li>• Novell OES Cluster: (Disk Agent)</li> </ul>	<p>Novell OES2 (32-bit) for Linux  Novell OES 2 (64-bit) for Linux  Novell OES11 (64-bit) for Linux</p>
OpenVMS Cluster <sup>4</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>	<p>SUSE Linux Enterprise Server 9,10  Windows Server 2003</p>
PolyServe Matrix Server <sup>5</sup>	<ul style="list-style-type: none"> <li>• PolyServe Matrix Server</li> </ul>	<p>SUSE Linux Enterprise Server 9  Red Hat Enterprise Linux 4  Windows Server 2003</p>
HACMP	<ul style="list-style-type: none"> <li>• HACMP Cluster</li> </ul>	<p>AIX 5.3  AIX 6.1</p>
Red Hat Cluster Suite	<ul style="list-style-type: none"> <li>• Red Hat Cluster</li> </ul>	<p>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, 6.3 (x64)  Red Hat Enterprise Linux 6.0, 6.1, 6.2, 6.3 (32-bit)</p>
SUSE High Availability Storage Infrastructure	<ul style="list-style-type: none"> <li>• SUSE HA Storage Infrastructure</li> </ul>	<p>SUSE Linux Enterprise Server 11 (32-bit)  SUSE Linux Enterprise Server 11 (x64)</p>

Life Keeper Cluster	<ul style="list-style-type: none"> <li>Life Keeper Cluster 7.3, 8.1 (Disk Agent)</li> </ul>	Red Hat Enterprise Linux 6.x (x64)
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- 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 Procedures for installing and configuring Data Protector on Tru64 Cluster are available in the *HP Data Protector Help*.
- 4 Details for installing and configuring Data Protector in OpenVMS cluster environment are available in *HP Data Protector 7.00 Installation and Licensing Guide*.
- 5 PolyServe Matrix Server does not provide any failover capabilities. Backups and restore must be done using a Disk Agent from any of the hosts accessing the server.
- 6 Includes support for Cell Manager on 'Majority Node Cluster'.
- 7 Cell Manager is not supported.
- 8 With HP MC/ServiceGuard A.11.20.20 and higher version 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 6.x</li> <li>Novell GroupWise 7.0.x</li> <li>Novell GroupWise 8.0</li> </ul>	<ul style="list-style-type: none"> <li>Novell NetWare 6.5</li> <li>Novell OES 2.0 for Linux 32-bit and 64-bit</li> <li>Novell OES 2.0 for Linux 32-bit and 64-bit</li> <li>Novell OES 11 for Linux 64-bit</li> </ul>
Oracle 10g R2 RAC (including OCFS and CRS wherever applicable)	<ul style="list-style-type: none"> <li>Red Hat Enterprise Linux 4.x, 5.x</li> <li>Red Hat Enterprise Linux 4.x, 5.x (Itanium, x64)</li> <li>SUSE Linux Enterprise Server 8, 9, 10</li> <li>HP-UX 11.11, HP-UX 11.23, HP-UX 11.31 (with or without MC/ServiceGuard)</li> <li>Windows Server 2003 (using Microsoft Cluster)</li> <li>Windows Server 2003 (using Veritas Cluster Server)</li> <li>Solaris (SPARC) 9, 10</li> <li>AIX 5.3, 6.x</li> <li>Oracle Enterprise Linux 4.x, 5.x</li> </ul>	
Oracle 11g RAC (including OCFS and CRS wherever applicable)	<ul style="list-style-type: none"> <li>Red Hat Enterprise Linux 4.x, 5.x (using Red Hat 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 5.3, 6.x</li> <li>Oracle Enterprise Linux 4.x, 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 4.x, 5.x (using Red Hat Cluster Suite)</li> <li>Red Hat Enterprise Linux 6.2 (64bit) (x64)</li> <li>SUSE Linux Enterprise Server 10, 11 (32bit) (x86), (64bit) (x64)</li> <li>Oracle Enterprise Linux 5.x (64-bit)</li> <li>AIX 6.x (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 5.3, 6.x (64-bit)</li> </ul>	

	<ul style="list-style-type: none"> <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>• 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>
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> <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>
SGI IRIX <sup>1</sup>	<ul style="list-style-type: none"> <li>• EFS (extended file system)</li> <li>• XFS (IRIX journaling file system)</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>



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> <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 file system)</li> <li>• AdvFS (Advanced file system)</li> </ul>
Linux (Red Hat, 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>
VMware ESX	<ul style="list-style-type: none"> <li>• VMFS</li> </ul>
Mac OS X Server	<ul style="list-style-type: none"> <li>• HFS+</li> <li>• UFS<sup>4</sup></li> </ul>

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

<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> UFS is supported only on Mac OS X 10.5.x

## 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
Novell NetWare	NetWare file system (Macintosh, NFS, OS/2, DOS) <sup>1</sup>	512
Novell NetWare	NSS	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
	GFS	unlimited
	GFS2	unlimited
Tru64	UFS	3/unlimited
	AdvFS	3/65
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