



# HP Data Protector 7.0

## Zero Downtime Backup and Instant Recovery

### Support Matrix for HP P9000 XP Disk Array Family

Version: 3.3

Date: April 2014

The details of the supported operating systems are specified in the individual tables below. The operating system, its version and the hardware architecture must be same on both application and backup hosts. For cluster support related information, please see the *HP Data Protector 7.00 Zero Downtime Backup Administrator's Guide*.

Supported microcode and RAID Manager HORCM versions				
XP model	Minimum microcode version required	Minimum RAID Manager Library version required		
		HP-UX	Solaris	Windows
XP128	21.01.24-00/00	01.06.03	01.06.03	01.06.03
XP10000 <sup>1</sup>	50-05-06-00/00	01.11.03	01.11.03	01.11.03
XP12000 <sup>1</sup>	50-01-40-00/00	1.09.04	1.09.04	1.09.04
XP 20000 <sup>1</sup>	60-01-31-00/00	01.12.04	01.12.04	01.12.04
XP 24000 <sup>1</sup>	60-01-31-00/00	01.12.04	01.12.04	01.12.04
P9000 Family	70-01-01-00/00	01.15.03	01.15.03	01.15.03

<sup>1</sup> Minimum Raid Manager Library version 01.15.00 or newer and minimum microcode version 50-04-20 is required for using snapshot capability of P9000 XP Disk Array Family.

All versions of HP Business Copy P9000 XP and/or HP Continuous Access P9000 XP that are supported by RAID Manager Library are supported. New versions of the microcode or the RAID Manager Library will be tested and certified if needed.

Abbreviations used in the Matrix:

- |        |   |                      |       |   |                   |
|--------|---|----------------------|-------|---|-------------------|
| 1. ZDB | : | zero downtime backup | 2. IR | : | instant recovery  |
| 3. BC  | : | Business Copy        | 4. CA | : | Continuous Access |

Supported configurations – HP-UX on PA-RISC				
Integration on HP-UX 11.11, 11.23, 11.31 <sup>1</sup>	Single-host BC	Dual-host BC	CA	CA and BC (combined)
Raw disk	ZDB with IR	ZDB with IR	ZDB	ZDB
Raw logical volume	ZDB with IR	ZDB with IR	ZDB	ZDB
File system	ZDB with IR	ZDB with IR	ZDB	ZDB
Oracle 10g RMAN offline or online <sup>2</sup>	ZDB with IR	ZDB with IR	ZDB	ZDB
Oracle 11g RMAN offline or online <sup>2</sup>	ZDB with IR	ZDB with IR	ZDB	ZDB
SAP BR*Tools 7.0 offline or online <sup>3</sup>	not supported	ZDB with IR	ZDB	ZDB
SAP BR*Tools 7.1 offline or online <sup>3</sup>	not supported	ZDB with IR	ZDB	ZDB
SAP BR*Tools 7.2 offline or online <sup>3</sup>	not supported	ZDB with IR	ZDB	ZDB

<sup>1</sup> With HP-UX 11.31, new device special files (DSF) are also supported

<sup>2</sup> Oracle 10g/11g includes all released versions of 10g, 10gR2, 11g and 11gR2: 10.x.x; 11.x.x.

<sup>3</sup> The integration is implemented using the 'backint' functionality.

### Supported configurations – HP-UX on Itanium

Integrations on HP-UX 11.23, 11.31 <sup>1</sup> (Itanium)	Single-host BC	Dual-host BC	CA	CA and BC (combined)
Raw disk	ZDB with IR	ZDB with IR	ZDB	ZDB
Raw logical volume	ZDB with IR	ZDB with IR	ZDB	ZDB
File system	ZDB with IR	ZDB with IR	ZDB	ZDB
Oracle 10g RMAN offline or online <sup>2</sup>	ZDB with IR	ZDB with IR	ZDB	ZDB
Oracle 11g RMAN offline or online <sup>2</sup>	ZDB with IR	ZDB with IR	ZDB	ZDB
SAP BR*Tools 7.0 offline or online <sup>3</sup>	not supported	ZDB with IR	ZDB	ZDB
SAP BR*Tools 7.1 offline or online <sup>3</sup>	not supported	ZDB with IR	ZDB	ZDB
SAP BR*Tools 7.2 offline or online <sup>3</sup>	not supported	ZDB with IR	ZDB	ZDB

<sup>1</sup> With HP-UX 11.31, new device special files (DSF) are also supported

<sup>2</sup> Oracle 10g/11g includes all released versions of 10g, 10gR2, 11g and 11gR2: 10.x.x; 11.x.x.

<sup>3</sup> The integration is implemented using the 'backint' functionality.

### Supported configurations – Windows 32-bit<sup>6</sup>

Integrations on Windows Server 2003 and Windows Server 2008	Single-host BC	Dual-host BC	CA	CA and BC (combined)
Raw disk	ZDB with IR	ZDB with IR	ZDB	ZDB
NTFS file system	ZDB with IR	ZDB with IR	ZDB	ZDB <sup>1</sup>
Microsoft Exchange Server 2003 <sup>2</sup>	not supported	ZDB with IR	ZDB	ZDB <sup>1</sup>
Microsoft SQL Server 2000 <sup>2</sup>	not supported	ZDB with IR	ZDB	ZDB <sup>1</sup>
Microsoft SQL Server 2005	not supported	ZDB with IR	ZDB	ZDB <sup>1</sup>
Microsoft SQL Server 2008	not supported	ZDB with IR	ZDB	ZDB <sup>1</sup>
Microsoft Office SharePoint Server 2007 <sup>5</sup>	-	-	-	-
Oracle 10g RMAN offline or online <sup>3</sup>	ZDB with IR	ZDB with IR	ZDB	ZDB <sup>1</sup>
Oracle 11g RMAN offline or online <sup>3</sup>	ZDB with IR	ZDB with IR	ZDB	ZDB <sup>1</sup>
SAP BR*Tools 7.0 offline or online <sup>4</sup>	not supported	ZDB with IR	ZDB	ZDB <sup>1</sup>
SAP BR*Tools 7.1 offline or online <sup>4</sup>	not supported	ZDB with IR	ZDB	ZDB <sup>1</sup>
SAP BR*Tools 7.2 offline or online <sup>4</sup>	not supported	ZDB with IR	ZDB	ZDB <sup>1</sup>

<sup>1</sup> If secondary volume for CA or primary volume for BC is not connected to the backup server

<sup>2</sup> Supported with Windows Server 2003 only

<sup>3</sup> Oracle 10g/11g includes all released versions of 10g, 10gR2, 11g and 11gR2: 10.x.x; 11.x.x.

<sup>4</sup> The integration is implemented using the 'backint' functionality.

<sup>5</sup> Microsoft Office SharePoint Server ZDB and IR backups are implemented using VSS. For details like the writer GUID or supported arrays, refer to *HP Data Protector 7.0 VSS Integration Support Matrix*.

<sup>6</sup> GPT partitions are not supported.

### Supported configurations – Windows 64-bit (Itanium)<sup>5</sup>

Integrations on Windows Server 2003, Windows Server 2008, Windows Server 2008 R2	Single-host BC	Dual-host BC	CA	CA and BC (combined)
Raw disk	ZDB with IR	ZDB with IR	ZDB	ZDB
NTFS file system	ZDB with IR	ZDB with IR	ZDB	ZDB <sup>1</sup>
Microsoft SQL Server 2000 <sup>2</sup>	not supported	ZDB with IR	ZDB	ZDB <sup>1</sup>
Microsoft SQL Server 2005	not supported	ZDB with IR	ZDB	ZDB <sup>1</sup>

Microsoft SQL Server 2008	not supported	ZDB with IR	ZDB	ZDB <sup>1</sup>
Microsoft SQL Server 2008 R2	not supported	ZDB with IR	ZDB	ZDB <sup>1</sup>
Oracle 10g RMAN offline or online <sup>3</sup>	ZDB with IR	ZDB with IR	ZDB	ZDB <sup>1</sup>
Oracle 11g RMAN offline or online <sup>3</sup>	ZDB with IR	ZDB with IR	ZDB	ZDB <sup>1</sup>
SAP BR*Tools 7.0 offline or online <sup>4</sup>	not supported	ZDB with IR	ZDB	ZDB <sup>1</sup>
SAP BR*Tools 7.1 offline or online <sup>4</sup>	not supported	ZDB with IR	ZDB	ZDB <sup>1</sup>
SAP BR*Tools 7.2 offline or online <sup>4</sup>	not supported	ZDB with IR	ZDB	ZDB <sup>1</sup>

<sup>1</sup> If secondary volume for CA or primary volume for BC is not connected to the backup server

<sup>2</sup> Supported with Windows 2003 only

<sup>3</sup> Oracle 10g/11g includes all released versions of 10g, 10gR2, 11g and 11gR2: 10.x.x; 11.x.x.

<sup>4</sup> The integration is implemented using the 'backint' functionality.

<sup>5</sup> GPT partitions are not supported.

### Supported configurations – Windows 64-bit (x64)<sup>6,7</sup>

Integrations on Windows Server 2003, Windows Server 2008, Windows Server 2008 R2, Windows Server 2012	Single-host BC	Dual-host BC	CA	CA and BC (combined)
Raw disk	ZDB with IR	ZDB with IR	ZDB	ZDB
NTFS file system	ZDB with IR	ZDB with IR	ZDB	ZDB <sup>1</sup>
Microsoft SQL Server2000 <sup>2</sup>	not supported	ZDB with IR	ZDB	ZDB <sup>1</sup>
Microsoft SQL Server 2005	not supported	ZDB with IR	ZDB	ZDB <sup>1</sup>
Microsoft SQL Server 2008	not supported	ZDB with IR	ZDB	ZDB <sup>1</sup>
Microsoft SQL Server 2008 R2	not supported	ZDB with IR	ZDB	ZDB <sup>1</sup>
Microsoft SQL Server 2012	not supported	ZDB with IR	ZDB	ZDB <sup>1</sup>
Microsoft Exchange Server 2007 <sup>3</sup>	-	-	-	-
Microsoft Exchange Server 2010 <sup>3</sup>	-	-	-	-
Microsoft Office SharePoint Server 2007 <sup>3</sup>	-	-	-	-
Oracle 10g RMAN offline or online <sup>4</sup>	ZDB with IR	ZDB with IR	ZDB	ZDB <sup>1</sup>
Oracle 11g RMAN offline or online <sup>4</sup>	ZDB with IR	ZDB with IR	ZDB	ZDB <sup>1</sup>
SAP BR*Tools 7.0 offline or online <sup>4</sup>	not supported	ZDB with IR	ZDB	ZDB <sup>1</sup>
SAP BR*Tools 7.1 offline or online <sup>4</sup>	not supported	ZDB with IR	ZDB	ZDB <sup>1</sup>
SAP BR*Tools 7.2 offline or online <sup>4</sup>	not supported	ZDB with IR	ZDB	ZDB <sup>1</sup>

<sup>1</sup> If secondary volume for CA or primary volume for BC is not connected to the backup host

<sup>2</sup> Supported with Windows 2003 only

<sup>3</sup> Microsoft Exchange Server & Office SharePoint Server ZDB and IR backups are implemented using VSS. For details like the writer GUID or supported arrays, refer to *HP Data Protector 7.0VSS Integration Support Matrix*.

<sup>4</sup> Oracle 10g/11g includes all released versions of 10g, 10gR2, 11g and 11gR2: 10.x.x; 11.x.x.

<sup>5</sup> The integration is done using the 'backint' functionality.

<sup>6</sup> Includes support for Thin Provisioned LUNs with P9500 array.

<sup>7</sup> GPT partitions are not supported.

Supported configurations – Solaris (SPARC)				
Integration on Sun Solaris 9,10	Single-host BC	Dual-host BC	CA	CA and BC (combined)
Raw Disk	ZDB with IR	ZDB with IR	ZDB	ZDB
Raw logical volume	ZDB with IR	ZDB with IR	ZDB	ZDB
File system	ZDB with IR	ZDB with IR	ZDB	ZDB
Oracle 10g RMAN offline or online <sup>1</sup>	ZDB with IR	ZDB with IR	ZDB	ZDB
Oracle 11g RMAN offline or online <sup>1</sup>	ZDB with IR	ZDB with IR	ZDB	ZDB
SAP BR*Tools 7.0 offline or online <sup>2</sup>	not supported	ZDB with IR	ZDB	ZDB
SAP BR*Tools 7.1 offline or online <sup>2</sup>	not supported	ZDB with IR	ZDB	ZDB
SAP BR*Tools 7.2 offline or online <sup>2</sup>	not supported	ZDB with IR	ZDB	ZDB

<sup>1</sup> Oracle 10g/11g includes all released versions of 10g, 10gR2, 11g and 11gR2: 10.x.x; 11.x.x.

<sup>2</sup> The integration is done using the 'backint' functionality.

Supported configurations – Linux <sup>1</sup>					
	RHEL <sup>3</sup> /SLES versions	Single-host BC	Dual-host BC	CA	CA and BC (combined)
Raw Disk	RHEL 5.x, 6.x, SLES 10,11	not supported	ZDB with IR	not supported	not supported
Raw logical volume	RHEL 5.x, 6.x, SLES 10,11	not supported	ZDB with IR	not supported	not supported
File system	RHEL 5.x, 6.x, SLES 10,11	not supported	ZDB with IR	not supported	not supported
Oracle 10g RMAN offline or online <sup>2</sup>	RHEL 5.x, SLES 10,11	not supported	ZDB with IR	not supported	not supported
Oracle 11g RMAN offline or online <sup>2</sup>	RHEL 5.x, SLES 10,11	not supported	ZDB with IR	not supported	not supported

<sup>1</sup> Only ext3 and ext4 file systems are supported.

<sup>2</sup> Oracle 10g/11g includes all released versions of 10g, 10gR2, 11g and 11gR2: 10.x.x; 11.x.x.

<sup>3</sup> RHEL 5.x support starts from RHEL 5.3 onwards only.

Volume manager	Operating system			
	HP-UX	Windows	Solaris	Linux
Logical Volume Manager (LVM)	supported <sup>2</sup>	n/a	n/a	Supported <sup>3</sup>
Veritas Volume Manager (VxVM)	supported	not supported	Supported	n/a
Disk Manager	n/a	supported <sup>1</sup>	n/a	n/a
Solaris Volume Manager	n/a	n/a	Supported	n/a

<sup>1</sup> Dynamic disks are not supported.

<sup>2</sup> LVM 1.0, LVM 2.0 and LVM 2.1 are supported.

<sup>3</sup> The LVM2 2.02 is supported.

The following is a list of alternate path and multipathing solutions that are supported:

<b>Supported alternate path solutions</b>				
<b>Alternate path solutions</b>	<b>HP-UX</b>	<b>Operating system</b>		<b>Linux</b>
		<b>Windows</b>	<b>Solaris</b>	
HP AutoPath	supported	supported	not supported	n/a
Sun Alternate Pathing driver	n/a	n/a	supported	n/a
VxVM Dynamic Multipathing	supported	n/a	supported	n/a
HP-UX LVM Alternate Links	supported	n/a	n/a	n/a
Linux Native Multipathing	n/a	n/a	n/a	supported