



HPE Data Protector 9.0x Zero Downtime Backup and Instant Recovery Support Matrix for HPE P9000 XP Disk Array Family

Version: 2.0

Date: March 2017

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 refer to *HPE Data Protector Zero Downtime Backup Administrator's Guide*.

HPE Data Protector components running in combination with application versions and operating system versions, which are not supported by their respective vendors, the support from HPE is limited to a reasonable-endeavors basis. At any time, HPE can decide to remove those combinations from the support matrix.

Updates/changes to individual fields within the Matrix will be highlighted in **RED**.

What's New

Support matrix was not updated for this release.

Table 1: Supported microcode and RAID Manager HORCM versions

Supported microcode and RAID Manager HORCM versions					
XP model	Minimum microcode version required	Minimum RAID Manager Library version required			
		HP-UX	Solaris	Windows	Linux
XP12000 ¹	50-01-40-00/00	1.09.04	1.09.04	1.09.04	1.09.04
XP 20000 ¹	60-01-31-00/00	01.12.04	01.12.04	01.12.04	01.12.04
XP 24000 ¹	60-01-31-00/00	01.12.04	01.12.04	01.12.04	01.12.04
XP 7	70-01-31-00/00	01.15.03	-	01.32.03	-
P9000 Family ²	70-01-01-00/00	01.15.03	01.15.03	01.15.03	01.15.03

¹ 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.

² Includes support for Hitachi Virtual Storage Platform (VSP).

All versions of HPE Business Copy P9000 XP and/or HPE 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 |

Table 2: Supported configurations – HP-UX on PA-RISC

Supported configurations – HP-UX on PA-RISC				
Integration on HP-UX 11.11, 11.23, 11.31 ¹	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 11g RMAN offline or online ²	ZDB with IR	ZDB with IR	ZDB	ZDB
SAP BR*Tools 7.2 offline or online ³	not supported	ZDB with IR	ZDB	ZDB

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

2 Oracle 11g includes all released versions of 11g and 11gR2: 11.x.x.

3 The integration is implemented using the 'backint' functionality.

Table 3: Supported configurations – HP-UX on Itanium

Supported configurations – HP-UX on Itanium				
Integrations on HP-UX 11.23, 11.31 ¹ (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 11g RMAN offline or online ²	ZDB with IR	ZDB with IR	ZDB	ZDB
Oracle 12c R1 RMAN offline or online ⁴	ZDB with IR	ZDB with IR	ZDB	ZDB
SAP BR*Tools 7.2 offline or online ³	not supported	ZDB with IR	ZDB	ZDB

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

2 Oracle 11g includes all released versions of 11g and 11gR2: 11.x.x.

3 The integration is implemented using the 'backint' functionality.

4 With Oracle 12c R1 ASM offline, disk+tape backup is not supported.

Table 4: Supported configurations – Windows 32-bit

Supported configurations – Windows 32-bit ⁶				
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 ¹
Microsoft SQL Server 2005	not supported	ZDB with IR	ZDB	ZDB ¹
Microsoft SQL Server 2008	not supported	ZDB with IR	ZDB	ZDB ¹
Microsoft Office SharePoint Server 2007 ⁵	-	-	-	-
Oracle 11g RMAN offline or online ³	ZDB with IR	ZDB with IR	ZDB	ZDB ¹
SAP BR*Tools 7.2 offline or online ⁴	not supported	ZDB with IR	ZDB	ZDB ¹

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

2 Supported with Windows Server 2003 only

3 Oracle 10g/11g includes all released versions of 11g and 11gR2: 11.x.x.

4 The integration is implemented using the 'backint' functionality.

5 Microsoft Office SharePoint Server ZDB and IR backups are implemented using VSS. For details like the writer GUID or supported arrays, refer to *HPE Data Protector 9.0x VSS Integration Support Matrix*.

6 GPT partitions are not supported.

Table 5: Supported configurations – Windows 64-bit (Itanium)

Supported configurations – Windows 64-bit (Itanium) ⁵				
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 ¹
Microsoft SQL Server 2005	not supported	ZDB with IR	ZDB	ZDB ¹
Microsoft SQL Server 2008	not supported	ZDB with IR	ZDB	ZDB ¹
Microsoft SQL Server 2008 R2	not supported	ZDB with IR	ZDB	ZDB ¹
Oracle 11g RMAN offline or online ³	ZDB with IR	ZDB with IR	ZDB	ZDB ¹
SAP BR*Tools 7.2 offline or online ⁴	not supported	ZDB with IR	ZDB	ZDB ¹

- 1 If secondary volume for CA or primary volume for BC is not connected to the backup server
- 2 Supported with Windows 2003 only
- 3 Oracle 10g/11g includes all released versions of 10g, 10gR2, 11g and 11gR2: 10.x.x; 11.x.x.
- 4 The integration is implemented using the 'backint' functionality.
- 5 GPT partitions are not supported.

Table 6: Supported configurations – Windows 64-bit (x64)

Supported configurations – Windows 64-bit (x64) ^{6,2}				
Integrations on Windows Server 2003, Windows Server 2008, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 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 ¹
Microsoft SQL Server 2005	not supported	ZDB with IR	ZDB	ZDB ¹
Microsoft SQL Server 2008	not supported	ZDB with IR	ZDB	ZDB ¹
Microsoft SQL Server 2008 R2	not supported	ZDB with IR	ZDB	ZDB ¹
Microsoft SQL Server 2012	not supported	ZDB with IR	ZDB	ZDB ¹
Microsoft SQL Server 2012 R2	not supported	ZDB with IR	ZDB	ZDB ¹
Microsoft SQL Server 2014	not supported	ZDB with IR	ZDB	ZDB ¹
Microsoft Exchange Server 2007 ³	-	-	-	-
Microsoft Exchange Server 2010 ³	-	-	-	-
Microsoft Exchange Server 2013 ³	-	-	-	-
Microsoft Office SharePoint Server 2007 ³	-	-	-	-
Microsoft Office SharePoint Server 2010 ³	-	-	-	-
Oracle 11g RMAN offline or online ⁴	ZDB with IR	ZDB with IR	ZDB	ZDB ¹
Oracle 12c RMAN offline or online ⁷	ZDB with IR	ZDB with IR	ZDB	ZDB ¹
SAP BR*Tools 7.2, 7.4 offline or online ⁴	not supported	ZDB with IR	ZDB	ZDB ¹

- 1 If secondary volume for CA or primary volume for BC is not connected to the backup host
- 3 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 *HPE Data Protector 9.0x VSS Integration Support Matrix*.
- 4 Oracle 11g includes all released versions of 11g and 11gR2: 11.x.x.
- 5 The integration is done using the 'backint' functionality.
- 6 Includes support for Thin Provisioned LUNs with P9500 array.
- 7 Oracle ASM is not supported.

Table 7: Supported configurations – Solaris (SPARC)

Supported configurations – Solaris (SPARC)				
Integration on Sun Solaris 9, 10, 11	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 11g RMAN offline or online ¹	ZDB with IR	ZDB with IR	ZDB	ZDB
SAP BR*Tools 7.2 offline or online ²	not supported	ZDB with IR	ZDB	ZDB

- 1 Oracle 11g includes all released versions of 11g and 11gR2: 11.x.x.
- 2 The integration is done using the 'backint' functionality.

Table 8: Supported configurations - Linux

Supported configurations – Linux ¹					
	RHEL ³ /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	ZDB	ZDB
Raw logical volume	RHEL 5.x, 6.x SLES 10,11	not supported	ZDB with IR	ZDB	ZDB
File system	RHEL 5.x, 6.x SLES 10,11	not supported	ZDB with IR	ZDB	ZDB
Oracle 11g RMAN offline or online ²	RHEL 5.x, 6.1, 6.2 SLES 10,11	not supported	ZDB with IR	ZDB	ZDB

- 1 Only ext3 and ext4 file systems are supported.
- 2 Oracle 11g includes all released versions of 11g and 11gR2: 11.x.x.
- 3 RHEL 5.x support starts from RHEL 5.3 onwards only.

Table 9: Supported volume managers

Supported volume managers				
Volume manager	Operating system			
	HP-UX	Windows	Solaris	Linux
Logical Volume Manager (LVM)	supported ²	n/a	n/a	supported ³
Veritas Volume Manager (VxVM)	supported	not supported	supported	supported ^{4,5}
Disk Manager	n/a	supported ¹	n/a	n/a
Solaris Volume Manager	n/a	n/a	supported	n/a

- 1 Dynamic disks are not supported.
- 2 LVM 1.0, LVM 2.0 and LVM 2.1 are supported.
- 3 The LVM2 2.02 is supported.
- 4 VxVM 5.1 supported.
- 5 Supported with patch bundle 8.11 and later versions.

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

Table 10: Supported alternate path solutions

Supported alternate path solutions				
Alternate path solutions	Operating system			
	HP-UX	Windows	Solaris	Linux
HPE 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