



# hp OpenView storage data protector 6.1 Zero Downtime (Split-mirror) backup & Instant Recovery Support matrix for HP StorageWorks Disk Array XP

Version: Draft-4

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Following are the Operating System support details:

supported operating systems			
Operating System	Version	Application Host	Backup Host
HP-UX	11.11 (PA-RISC)	PA-RISC	PA-RISC
	11.23 (PA-RISC)		
	11.31 (PA-RISC)		
	11.11 (Itanium)	Itanium	Itanium
	11.23 (Itanium)		
	11.31 (Itanium)		
Windows	2000 (32-bit)	IA-32	IA-32
	2003 (32-bit)		
	2003 (64-bit – Itanium)	Itanium	Itanium
	2003 (64-bit – x64)		
Solaris	8, 9, 10 (SPARC)	SPARC	SPARC

Supported microcode & RaidManager HORCM versions				
XP Type	Minimum Microcode version required	Minimum RAID Manager library version required		
		HP-UX	Solaris	Windows
XP48	01.13.37	01.06.03	01.06.03	01.06.03
XP128	21.01.24-00/00	01.06.03	01.06.03	01.06.03
XP256	52.48.60	01.06.03	01.06.03	01.06.03
XP512	01.13.37	01.06.03	01.06.03	01.06.03
XP1024	21.01.24-00/00	01.06.03	01.06.03	01.06.03
XP10000	50-05-06-00/00	01.11.03	01.11.03	01.11.03
XP12000	50-01-40-00/00	1.09.04	1.09.04	1.09.04
XP 20000	60-01-31-00/00	01.20.03	01.20.03	01.20.03
XP 24000	60-01-31-00/00	01.20.03	01.20.03	01.20.03

All versions of Business Copy XP and/or Continuous Access XP that are supported by RaidManager Library are supported. New versions of the microcode or the RaidManager 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 XP     | 4. CA | : | Continuous Access XP |

supported configurations – HP-UX PA-RISC				
integrations on hp-ux 11.11, 11.23 and 11.31 <sup>6</sup>	single-host BC	dual-host BC	CA	CA&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 offline <sup>1</sup>	ZDB with IR	ZDB with IR	ZDB	ZDB

Oracle 8.1.7 RMAN offline or online	ZDB with IR	ZDB with IR	ZDB	ZDB
Oracle 9i RMAN offline or online <sup>4</sup>	ZDB with IR	ZDB with IR	ZDB	ZDB
Oracle 10g RMAN offline or online <sup>4</sup>	ZDB with IR	ZDB with IR	ZDB	ZDB
Oracle 11g RMAN offline or online <sup>4</sup>	ZDB with IR	ZDB with IR	ZDB	ZDB
SAP R/3 3.1G <sup>2, 5</sup> + brbackup 4.0x	Not Supported	ZDB with IR	ZDB	ZDB
SAP R/3 4.0x <sup>3, 5</sup> + brbackup 4.0x	Not Supported	ZDB with IR	ZDB	ZDB
SAP R/3 4.5x <sup>3, 5</sup> + brbackup 4.5x	Not Supported	ZDB with IR	ZDB	ZDB
SAP R/3 4.6x <sup>3, 5</sup> + brbackup 4.6x offline or online	Not Supported	ZDB with IR	ZDB	ZDB
SAP R/3 4.7 <sup>5</sup> + Brtools 6.40 offline or online	Not Supported	ZDB with IR	ZDB	ZDB
SAP BRTOOLS 6.10 & 6.20 offline or online <sup>5</sup>	Not Supported	ZDB with IR	ZDB	ZDB
SAP BRTOOLS 6.40 offline or online <sup>5</sup>	Not Supported	ZDB with IR	ZDB	ZDB
SAP BRTOOLS 7.0 offline or online <sup>5</sup>	Not Supported	ZDB with IR	ZDB	ZDB

- 1 The file system will be unmounted on the application host before the split. Only HFS & VxFS filesystems are supported
- 2 This includes all later sub-versions. For example, 3.1G includes 3.1I.
- 3 This includes all sub-versions. For example, 4.6x includes 4.6B, 4.6C, 4.6D etc.
- 4 Oracle 9i/10g/11g includes all released versions of 9i and 10g e. g. 9.x.x, 10.x.x; 11.x.x etc.
- 5 The integration is done using the 'Backint' functionality.
- 6 For HP-UX 11.31, new device special files (DSF) are also supported

#### supported configurations – HP-UX Itanium

integrations on hp-ux 11.23 and 11.31 <sup>4</sup> (Itanium)	single-host BC	dual-host BC	CA	CA&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 offline <sup>1</sup>	ZDB with IR	ZDB with IR	ZDB	ZDB
Oracle 9i RMAN offline or online <sup>2</sup>	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 10g RMAN offline or online <sup>2</sup>	ZDB with IR	ZDB with IR	ZDB	ZDB
SAP R/3 4.7 <sup>3</sup> + Brtools 6.40 offline or online	Not Supported	ZDB with IR	ZDB	ZDB
SAP BRTOOLS 6.20 offline or online <sup>3</sup>	Not Supported	ZDB with IR	ZDB	ZDB
SAP BRTOOLS 6.40 offline or online <sup>3</sup>	Not Supported	ZDB with IR	ZDB	ZDB
SAP BRTOOLS 7.0 offline or online <sup>3</sup>	Not Supported	ZDB with IR	ZDB	ZDB

- 1 The file system will be unmounted on the application host before the split. Only HFS & VxFS filesystems are supported
- 2 Oracle 9i/10g/11g includes all released versions of 9i and 10g e. g. 9.x.x, 10.x.x; 11.x.x etc.
- 3 The integration is done using the 'Backint' functionality.
- 4 For HP-UX 11.31, new device special files (DSF) are also supported

#### supported configurations – 32-bit Windows

integrations on windows 2000 and 2003 (32-bit)	single-host BC	dual-host BC	CA	CA/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>

MS Exchange2000 <sup>5</sup>	Not Supported	ZDB with IR	ZDB	ZDB <sup>1</sup>
MS Exchange2003 <sup>6</sup>	Not Supported	ZDB with IR	ZDB	ZDB <sup>1</sup>
MS SQL2000	Not Supported	ZDB with IR	ZDB	ZDB <sup>1</sup>
MS SQL2005	Not Supported	ZDB with IR	ZDB	ZDB <sup>1</sup>
Oracle 8.1.x RMAN offline or online	ZDB with IR	ZDB with IR	ZDB	ZDB <sup>1</sup>
Oracle 9i RMAN offline or online <sup>4</sup>	ZDB with IR	ZDB with IR	ZDB	ZDB <sup>1</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 R/3 4.0x <sup>2, 3</sup> + brbackup 4.0x	Not Supported	ZDB with IR	ZDB	ZDB <sup>1</sup>
SAP R/3 4.5x <sup>2, 3</sup> + brbackup 4.5x	Not Supported	ZDB with IR	ZDB	ZDB <sup>1</sup>
SAP R/3 4.6x <sup>2, 3</sup> + brbackup 4.6x offline or online	Not Supported	ZDB with IR	ZDB	ZDB <sup>1</sup>
SAP R/3 4.7 <sup>3</sup> + Brtools 6.40 offline or online	Not Supported	ZDB with IR	ZDB	ZDB <sup>1</sup>
SAP BRTOOLS 6.10 & 6.20 offline or online <sup>3</sup>	Not Supported	ZDB with IR	ZDB	ZDB <sup>1</sup>
SAP BRTOOLS 6.40 offline or online <sup>3</sup>	Not Supported	ZDB with IR	ZDB	ZDB <sup>1</sup>
SAP BRTOOLS 7.0 offline or online <sup>3</sup>	Not Supported	ZDB with IR	ZDB	ZDB <sup>1</sup>

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

2 This includes all sub-versions. For example, 4.6x includes 4.6B, 4.6C, 4.6D etc.

3 The integration is done using the 'Backint' functionality.

4 Oracle 9i/10g/11g includes all released versions of 9i and 10g e. g. 9.x.x, 10.x.x; 11.x.x etc.

5 Supported only for Windows 2000

6 Supported only for Windows 2003 (32-bit)

#### supported configurations – 64-bit Windows (Itanium)

integrations on windows 2003	single-host BC	dual-host BC	CA	CA/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>
MS SQL2000	Not Supported	ZDB with IR	ZDB	ZDB <sup>1</sup>
MS SQL2005	Not Supported	ZDB with IR	ZDB	ZDB <sup>1</sup>
Oracle 9i RMAN offline or online <sup>3</sup>	ZDB with IR	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 R/3 4.7 <sup>2</sup> + Brtools 6.40 offline or online	Not Supported	ZDB with IR	ZDB	ZDB <sup>1</sup>
SAP BRTOOLS 6.10 & 6.20 offline or online <sup>2</sup>	Not Supported	ZDB with IR	ZDB	ZDB <sup>1</sup>
SAP BRTOOLS 6.40 offline or online <sup>2</sup>	Not Supported	ZDB with IR	ZDB	ZDB <sup>1</sup>
SAP BRTOOLS 7.0 offline or online <sup>2</sup>	Not Supported	ZDB with IR	ZDB	ZDB

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

2 The integration is done using the 'Backint' functionality.

3 Oracle 9i/10g/11g includes all released versions of 9i and 10g e. g. 9.x.x, 10.x.x; 11.x.x etc.

### supported configurations – 64-bit Windows (x64)

integrations on windows 2003	single-host BC	dual-host BC	CA	CA/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>
MS SQL2000	Not Supported	ZDB with IR	ZDB	ZDB <sup>1</sup>
MS SQL2005	Not Supported	ZDB with IR	ZDB	ZDB <sup>1</sup>
Microsoft Exchange 2007 <sup>4</sup>	-	-	-	-
Oracle 9i RMAN offline or online <sup>3</sup>	ZDB with IR	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 R/3 4.7 <sup>2</sup> + Brtools 6.40 offline or online	Not Supported	ZDB with IR	ZDB	ZDB <sup>1</sup>
SAP BRTOOLS 6.10 & 6.20 offline or online <sup>2</sup>	Not Supported	ZDB with IR	ZDB	ZDB <sup>1</sup>
SAP BRTOOLS 6.40 offline or online <sup>2</sup>	Not Supported	ZDB with IR	ZDB	ZDB <sup>1</sup>
SAP BRTOOLS 7.0 offline or online <sup>2</sup>	Not Supported	ZDB with IR	ZDB	ZDB

- 1 If secondary volume for CA & primary volume for BC is not connected to the backup server
- 2 The integration is done using the 'Backint' functionality.
- 3 Oracle 9i/10g/11g includes all released versions of 9i and 10g e. g. 9.x.x, 10.x.x; 11.x.x etc.
- 4 MS Exchange ZDB / IR backups are supported using VSS. For details please refer to hp OpenView storage data protector 6.1 VSS support matrix.

### supported configurations – Solaris (SPARC)

integrations on Sun Solaris 8, 9 and 10	single-host BC	dual-host BC	CA	CA/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 Offline <sup>1</sup>	ZDB with IR	ZDB with IR	ZDB	ZDB
Oracle 8.1.7 RMAN offline or online	ZDB with IR	ZDB with IR	ZDB	ZDB
Oracle 9i RMAN offline or online <sup>4</sup>	ZDB with IR	ZDB with IR	ZDB	ZDB
Oracle 10g RMAN offline or online <sup>4</sup>	ZDB with IR	ZDB with IR	ZDB	ZDB
Oracle 11g RMAN offline or online <sup>4</sup>	ZDB with IR	ZDB with IR	ZDB	ZDB
SAP R/3 4.6x <sup>2,3</sup> + brbackup 4.6x offline or online	Not Supported	ZDB with IR	ZDB	ZDB
SAP R/3 4.7 <sup>3</sup> + Brtools 6.40 offline or online	Not Supported	ZDB with IR	ZDB	ZDB
SAP BRTOOLS 6.10 & 6.20 offline or online <sup>3</sup>	Not Supported	ZDB with IR	ZDB	ZDB
SAP BRTOOLS 6.40 offline or online <sup>3</sup>	Not Supported	ZDB with IR	ZDB	ZDB
SAP BRTOOLS 7.0 offline or online <sup>3</sup>	Not Supported	ZDB with IR	ZDB	ZDB

- 1 The file system will be unmounted on the application host before the split. Only UFS and VxFS filesystems are supported.
- 2 This includes all sub-versions. For example, 4.6x includes 4.6B, 4.6C, 4.6D etc.
- 3 The integration is done using the 'Backint' functionality.
- 4 Oracle 9i/10g/11g includes all released versions of 9i and 10g e. g. 9.x.x, 10.x.x; 11.x.x etc.

### Supported Volume Managers

Volume Manager	Operating System		
	HP-UX	Windows	Solaris
Logical Volume Manager (LVM)	Supported	Not Applicable	Not Applicable
Veritas Volume Manager (VxVM)	Supported	Not Supported	Supported
Disk Manager	Not Applicable	Supported <sup>1</sup>	Not Applicable

<sup>1</sup> Dynamic Disks are not supported

Following is a list of Alternate Path/Multipathing solutions that are supported:

Supported Alternate Path solutions			
Alternate Path solutions	Operating System		
	HP-UX	Windows	Solaris
HP StorageWorks AutoPath	Supported	Supported	Not Supported
Sun Alternate Pathing Driver	Not Applicable	Not Applicable	Supported
VxVM Dynamic Multipathing	Supported	Not Supported	Supported
HP-UX LVM Alternate Links	Supported	Not Applicable	Not Applicable

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