HP Data Protector A.06.00
EMC split-mirror backup integration support matrix

Version: 2.7   Date: November 28, 2008

The EMC Split-Mirror Backup Integration is supported on the following Operating Systems:

HP-UX (PA-RISC)	:	HP-UX 11.0, HP-UX 11.11, HP-UX 11.23 & 11.31
HP-UX (Itanium)	:	HP-UX 11.23 & 11.31
Windows	:	Windows 2000, 2003 (x86 & Itanium)

The operating system doesn't need to be identical on both Application and Backup Hosts. However, it must be either HP-UX (PA-RISC) on both or HP-UX (Itanium) on both or Windows (x86) on both or Windows (Itanium) on both.

The EMC Symmetrix Integrated Cached Disk Array system (ICDA) must run the Enterprise Backup Solutions Enabler from EMC. Following is the list of Supported versions:

1. HP-UX (PA-RISC) : Version 5.5 upto 6.0.
2. HP-UX (Itanium) : Version 6.0.
3. Windows : Version 5.3 and above.

All versions of TimeFinder and/or SRDF and microcode supported by the above versions of the EMC software are supported. New versions of the microcode or the Enterprise Backup software will be tested and certified if needed.

EMC DMX arrays are also supported.

For the following matrices, only those combinations of Applications & Operating Systems are supported that are supported by the respective vendors.

supported configurations – HP-UX (PA-RISC)				
integrations on HP-UX 11.0, 11.11 & 11.23 (PA-RISC)	single host TimeFinder [1]	dual host TimeFinder [2]	SRDF [3]	SRDF/TF [4] (combined)
Raw disk and raw logical volume (disk image) [5]	Supported	Supported	Supported	Supported
VxFS, HFS file system offline [6]	Supported [7]	Supported	Supported	Supported
Oracle 8.1.7 RMAN offline[8] or online [9]	Not supported	Supported	Supported	Supported
Oracle 9I RMAN offline[8] or online [9]	Not supported	Supported	Supported	Supported
Oracle 10G RMAN offline[8] or online [9, 12]	Not supported	Supported	Supported	Supported
SAP R/3 3.1G10 + brbackup 4.0x[11]	Not supported	Supported	Supported	Supported
SAP R/3 4.0x + brbackup 4.0x[11]	Not supported	Supported	Supported	Supported
SAP R/3 4.5x + brbackup 4.5x[11]	Not supported	Supported	Supported	Supported
SAP R/3 4.6x + brbackup 4.6x[11] offline 8 or online [9]	Not supported	Supported	Supported	Supported
SAP R/3 Enterprise 4.7 offline [8] or online [9]	Not supported	Supported	Supported	Supported
Brtools 6.20 offline [8] or online [9]	Not supported	Supported	Supported	Supported
Brtools 6.40 offline [8] or online [9]	Not supported	Supported	Supported	Supported

Brtools 7.0 offline [8] or online [9]		Not supported	Supported	Supported	Supported

1   BCV mirror is created inside one ICDA. BCV mirror is being backed up on the application host. (There is no backup host.)

2   BCV mirror is created inside one ICDA. Application host is connected to the original disk. Backup host is connected to the BCV.

3   Two ICDAs are connected with SRDF links. Application host is connected to the primary ICDA (R1 disk). Backup host is connected to secondary ICDA (R2 disk).

4   Two ICDAs (R1 and R2) are connected with SRDF links. Application host is connected to the R1 disk. Backup host is connected to the BCV mirror of the R2 disk.

5   The appropriate disk image is backed up. It is the user's responsibility to shut down the application and unmount the file system.

6   Same as note 5 (disk image), except that it is more convenient to specify and Data Protector unmounts the file system on the application host before the split.

7   The directory needs to have a special name: _bcv.

8   During the split, the database is shut down on the application host and backed up on the backup host.

9   During the split, the database is put into hot mode on the application host and backed up on the backup host. Archive logs are backed up in the standard way on the application host.

10   This includes all later sub-versions. For example, 3.1G includes 3.1I.

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

12   Oracle 10g ASM is not currently supported in combination with ZDB/IR

supported configurations – HP-UX (PA-RISC) [11]				
Integrations on HP-UX 11.31	**single host TimeFinder** [1]	**dual host TimeFinder** [2]	**SRDF** [3]	**SRDF/TF** [4] **(combined)**
Raw disk and raw logical volume (disk image) [5]	Supported	Supported	Supported	Supported
VxFS File system offline [6]	Supported [7]	Supported	Supported	Supported
Oracle10g RMAN offline[8] or online [9]	Supported	Supported	Supported	Supported
Oracle11g RMAN offline[8] or online [9]	Supported	Supported	Supported	Supported
SAP Brtools 7.0 offline [8] or online [9, 10]	Not supported	Supported	Supported	Supported

1   BCV mirror is created inside one ICDA. BCV mirror is being backed up on the application host. (There is no backup host.)

2   BCV mirror is created inside one ICDA. Application host is connected to the original disk. Backup host is connected to the BCV.

3   Two ICDAs are connected with SRDF links. Application host is connected to the primary ICDA (R1 disk). Backup host is connected to secondary ICDA (R2 disk).

4   Two ICDAs (R1 and R2) are connected with SRDF links. Application host is connected to the R1 disk. Backup host is connected to the BCV mirror of the R2 disk.

5   The appropriate disk image is backed up. It is the user's responsibility to shut down the application and unmount the file system.

6   Same as note 5 (disk image), except that it is more convenient to specify and Data Protector unmounts the file system on the application host before the split.

7   The directory needs to have a special name: _bcv.

8   During the split, the database is shut down on the application host and backed up on the backup host.

9 During the split, the database is put into hot mode on the application host and backed up on the backup host. Archive logs are backed up in the standard way on the application host.

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

11 To utilize this feature following patch is required: PHSS_36610, DPLNX_00028, DPSOL_00293, PHSS_36609

supported configurations – HP-UX (Itanium) [11]				
Integrations on HP-UX 11.23 & 11.31	single host TimeFinder [1]	dual host TimeFinder [2]	SRDF [3]	SRDF/TF [4] (combined)
Raw disk and raw logical volume (disk image) [5]	Supported	Supported	Supported	Supported
VxFS File system offline [6]	Supported [7]	Supported	Supported	Supported
Oracle10g	Supported	Supported	Supported	Supported
Oracle11g	Supported	Supported	Supported	Supported
SAP Brtools 7.0 offline [8] or online [9, 10]	Not supported	Supported	Supported	Supported

1 BCV mirror is created inside one ICDA. BCV mirror is being backed up on the application host. (There is no backup host.)

2 BCV mirror is created inside one ICDA. Application host is connected to the original disk. Backup host is connected to the BCV.

3 Two ICDAs are connected with SRDF links. Application host is connected to the primary ICDA (R1 disk). Backup host is connected to secondary ICDA (R2 disk).

4 Two ICDAs (R1 and R2) are connected with SRDF links. Application host is connected to the R1 disk. Backup host is connected to the BCV mirror of the R2 disk.

5 The appropriate disk image is backed up. It is the user's responsibility to shut down the application and unmount the file system.

6 Same as note 5 (disk image), except that it is more convenient to specify and Data Protector unmounts the file system on the application host before the split.

7 The directory needs to have a special name: _bcv.

8 During the split, the database is shut down on the application host and backed up on the backup host.

9 During the split, the database is put into hot mode on the application host and backed up on the backup host. Archive logs are backed up in the standard way on the application host.

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

11 To utilize this feature following patch is required: PHSS_36610 / DPLNX_00028 / DPSOL_00293 / PHSS_36609

Data Protector 6.0 also supports the **EMC Geospan** product for High Availability Clustering using the Microsoft Cluster Server. EMC Geospan needs dual host TimeFinder and the supported Geospan setups are listed in the table below. Additionally the table below also represents the ZDB support for EMC Symmetrix on Windows in addition to the ones supported by Geospan:

supported configurations – Windows				
integrations on Windows 2000	single host TimeFinder [1]	dual host TimeFinder [2]	SRDF [3]	SRDF/TF [4] (combined)
Raw disk and raw logical volume (disk image) [5]	Supported	Supported	Not Supported	Not Supported
NTFS file system offline [6]	Supported [7]	Supported	Not Supported	Not Supported
Oracle 8.1.7 RMAN offline[8] or online [9]	Not supported	Supported	Not Supported	Not Supported
Oracle 9i RMAN offline[8] or online [9]	Not supported	Supported	Not Supported	Not Supported
MS SQL Server 2000	Not supported	Supported	Not Supported	Not Supported

[1] BCV mirror is created inside one ICDA. BCV mirror is being backed up on the application host. (There is no backup host.)
[2] BCV mirror is created inside one ICDA. Application host is connected to the original disk. Backup host is connected to the BCV.
[3] Two ICDAs are connected with SRDF links. Application host is connected to the primary ICDA (R1 disk). Backup host is connected to secondary ICDA (R2 disk).
[4] Two ICDAs (R1 and R2) are connected with SRDF links. Application host is connected to the R1 disk. Backup host is connected to the BCV mirror of the R2 disk.
[5] The appropriate disk image is backed up. It is the user's responsibility to shut down the application and unmount the file system.
[6] Same as note 5 (disk image), except that it is more convenient to specify and Data Protector unmounts the file system on the application host before the split.
[7] The directory needs to have a special name: _bcv.
[8] During the split, the database is shut down on the application host and backed up on the backup host.
[9] During the split, the database is put into hot mode on the application host and backed up on the backup host. Archive logs are backed up in the standard way on the application host.

supported configurations – Windows				
integrations on Windows 2003 (32-bit & Itanium)[11]	single host TimeFinder [1]	dual host TimeFinder [2]	SRDF [3]	SRDF/TF [4] (combined)
Raw disk and raw logical volume (disk image) [5]	Supported	Supported	Not Supported	Not Supported
NTFS file system offline [6]	Supported [7]	Supported	Not Supported	Not Supported
Oracle10g	Supported	Supported	Not Supported	Not Supported
SAP Brtools 7.0 offline [8] or online [9, 10]	Not supported	Supported	Not Supported	Not Supported
MS SQL Server 2005	Not supported	Supported	Not Supported	Not Supported

[1] BCV mirror is created inside one ICDA. BCV mirror is being backed up on the application host. (There is no backup host.)
[2] BCV mirror is created inside one ICDA. Application host is connected to the original disk. Backup host is connected to the BCV.
[3] Two ICDAs are connected with SRDF links. Application host is connected to the primary ICDA (R1 disk). Backup host is connected to secondary ICDA (R2 disk).
[4] Two ICDAs (R1 and R2) are connected with SRDF links. Application host is connected to the R1 disk. Backup host is connected to the BCV mirror of the R2 disk.

5	The appropriate disk image is backed up. It is the user's responsibility to shut down the application and unmount the file system.

6	Same as note 5 (disk image), except that it is more convenient to specify and Data Protector unmounts the file system on the application host before the split.

7	The directory needs to have a special name: _bcv.

8	During the split, the database is shut down on the application host and backed up on the backup host.

9	During the split, the database is put into hot mode on the application host and backed up on the backup host. Archive logs are backed up in the standard way on the application host.

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

11	To utilize this feature the following patches are required:
DPWIN_00292 and DPWIN_00265

supported volume managers	
Operating System	**Volume Manager**
HP-UX	• LVM
	• VxVM
Windows	• Disk Manager