



# HP Data Protector 8.00

## Zero Downtime Backup and Instant Recovery

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

Version: 1.9

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 refer to *HP Data Protector 8.00 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  | Linux    |
| XP12000 <sup>1</sup>                                | 50-01-40-00/00                     | 1.09.04                                       | 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 | 01.12.04 |
| XP 24000 <sup>1</sup>                               | 60-01-31-00/00                     | 01.12.04                                      | 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 | 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 11g RMAN offline or online <sup>2</sup>        | ZDB with IR    | 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 11g includes all released versions of 11g and 11gR2: 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 11g RMAN offline or online <sup>2</sup>  | ZDB with IR   | 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 11g includes all released versions of 11g and 11gR2: 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 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 11g RMAN offline or online <sup>3</sup>              | ZDB with IR    | 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 11g and 11gR2: 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 8.00 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 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 11g RMAN offline or online <sup>3</sup>                                   | ZDB with IR    | 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>6,2</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 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 Exchange Server 2013 <sup>3</sup>          | -             | -           | -   | -                |
| Microsoft Office SharePoint Server 2007 <sup>3</sup> | -             | -           | -   | -                |
| Microsoft Office SharePoint Server 2010 <sup>3</sup> | -             | -           | -   | -                |
| Oracle 11g RMAN offline or online <sup>4</sup>       | ZDB with IR   | ZDB with IR | ZDB | ZDB <sup>1</sup> |
| SAP BR*Tools 7.2 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>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 8.00VSS Integration Support Matrix*.

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

#### 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 <sup>1</sup>  | ZDB with IR    | 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 11g includes all released versions of 11g and 11gR2: 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  | 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 <sup>2</sup> | RHEL 5.x, 6. x, SLES 10,11       | not supported  | ZDB with IR  | ZDB | ZDB                  |

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

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

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

#### Supported volume managers

| 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>Operating system</b> |                |                |              |
|   | <b>HP-UX</b>            | <b>Windows</b> | <b>Solaris</b> | <b>Linux</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    |