Hewlett Packard Enterprise

HPE Data Protector 10.0x
3PAR Support Matrix

Version: 1.5   Date: January 2018

Data Protector Volume Shadow Copy Service (VSS) integration agent provides support for backup of data available in HPE 3PAR Storage systems. Instant Recovery for the backups taken through Data Protector VSS integration agent is supported by using Data Protector SMIS agent.

Please refer to HPE Data Protector 10.0x VSS Integration Support Matrix for the supported Windows Server versions and the required Windows Server Service Packs (SPs), Hot Fixes for different Windows Server versions and supported VSS Writers

For 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.

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

What's New
1.   Support for ZDB/IR with 3PAR 3.3.1 Remote Copy for File system and Rawdisk on Windows.

Table 1: HPE 3PAR Storage Systems and SMIS integration

HPE 3PAR Storage Systems and SMIS integration[1,2,3,5]				
InForm OS[3,4,6]	Operating System			
	HP-UX IA	HP-UX PARISC	Windows Server	Linux
	11.31	11.31	2008, 2008 R2, 2012, 2012 R2 2016[7]	SLES 11, 12 RHEL 6.x, 7.x
3.2.1	Supported	Not-supported	Supported	Supported
3.2.2	Supported	Not-supported	Supported	Supported
3.3.1	Supported	Not-supported	Supported	Supported

1   Storage volumes presented with Host Sees, Host Set, Port Set, or Matched Set are supported.
2   Backup and instant recovery of GPT disks are not supported on Windows Server.
3   3PAR Periodic Remote Copy feature is supported on 3.2.2 MU 2 with Patch P14.
4   3PAR Periodic Remote Copy feature is supported from 3.2.1 MU 2 or later.
5   Storage volumes in volume set is supported.
6   Peer Motion migration needs WWNs to be reset for successful backups.
7   Supported only for InForm OS version 3.3.1 onwards.

Table 2: Supported volume managers

Supported volume managers					
Operating system	Volume manager				
	LVM	LVM 2	LVM 2.1	VxVM	Disk manager
HP-UX	supported	supported	Supported	supported	n/a
Solaris	n/a	n/a	n/a	not-supported	n/a
Windows	n/a	n/a	n/a	not supported	not-supported
Linux	not-supported	supported[1]	not supported	not supported	n/a

1   Only LVM2 2.02 is supported.

Table 3: Supported configurations – HP-UX on PA-RISC

Supported configurations – HP-UX on PA-RISC			
Integration on HP-UX, 11.31[1]	Single-host Local Copy	Dual-host Local Copy	Remote Copy
Raw disk	not-supported	not-supported	not supported
Raw logical volume	not-supported	not-supported	not supported
File system	not-supported	not-supported	not supported
Oracle 11g RMAN offline or online [2, 3]	not-supported	not-supported	not supported
SAP BR*Tools 7.2 offline or online [4]	not supported	not-supported	not supported

Table 4: Supported configurations – HP-UX on Itanium

Supported configurations – HP-UX on Itanium			
Integration on HP-UX 11.31[1]	Single-host Local Copy	Dual-host Local Copy	Remote Copy[6]
Raw disk	ZDB with IR	ZDB with IR	ZDB with IR
Raw logical volume	ZDB with IR	ZDB with IR	ZDB with IR
File system[5]	ZDB with IR	ZDB with IR	ZDB with IR
Oracle 11g RMAN offline or online [2, 3,6] Oracle 12c RMAN offline or online[6]	ZDB with IR	ZDB with IR	ZDB with IR
SAP BR*Tools 7.2, 7.4 offline or online [4,6]	not supported	ZDB with IR	ZDB with IR

[1] For HP-UX 11.31, new device special files (DSF) are supported for LVM only.
[2] Oracle ASM is not supported.
[3] Oracle 11g includes all released versions of 11g and 11gR2
[4] The integration is implemented using "backint" functionality.
[5] HFS is not supported
[6] Not supported on 3PAR 3.3.1

Table 5: Supported configurations – Windows 64-bit (x64)

Supported configurations – Windows 64-bit (x64) [6]				
Integration	Windows version[1]	Single-host Local Copy	Dual-host Local Copy	Remote Copy
Raw disk	2008, 2008 R2, 2012 2012 R2	ZDB with IR	ZDB with IR	ZDB with IR
NTFS file system	2008, 2008 R2, 2012, 2012 R2	ZDB with IR	ZDB with IR	ZDB with IR
Microsoft Exchange Server 2010 [3]	2008, 2008 R2, 2012, 2012 R2	-	-	-
Microsoft Exchange Server 2013 [3]	2008, 2008 R2, 2012, 2012 R2	-	-	-
Microsoft Exchange Server 2016 [3]	2012, 2012 R2, 2016	-	-	-
Microsoft SQL Server 2008 R2	2008, 2008 R2, 2012, 2012 R2	not supported	ZDB with IR	ZDB with IR[7]
Microsoft SQL Server 2012	2008, 2008 R2, 2012, 2012 R2	not supported	ZDB with IR	ZDB with IR[7]
Microsoft SQL Server 2012 R2	2008, 2008 R2, 2012, 2012 R2	not supported	ZDB with IR	ZDB with IR[7]
Microsoft SQL Server 2014	2012, 2012 R2	not supported	ZDB with IR	ZDB with IR[7]
Oracle 11g RMAN offline or online[2, 4,7] Oracle 12c RMAN offline or online[7]	2008, 2008 R2, 2012, 2012 R2	ZDB with IR	ZDB with IR	ZDB with IR
SAP BR*Tools 7.2, 7.4 offline or online [5]	2008, 2008 R2, 2012, 2012 R2	not supported	ZDB with IR	ZDB with IR[7]

1 Following Windows hotfixes are required for Windows Server 2008 support: KB952790, KB971254
2 Oracle ASM is not supported.
3 Microsoft Exchange Server ZDB and IR backups are supported using VSS. For details such as supported array types, writer GUID etc. refer to *HPE Data Protector 10.0x VSS Integration Support Matrix.*
4 Oracle 11g includes all released versions of 11g and11gR2: 11.x.x.
5 The integration is implemented using "backint" functionality.
6 GPT partitions are not supported.
7 Not supported on 3PAR 3.3.1

Table 6: Supported configurations – Linux (x64)

Supported configurations – Linux (x64)				
	RHEL[1] / SLES versions	Single-host Local Copy	Dual-host Local Copy	Remote Copy[8]
Raw Disk[9]	RHEL 6.x, 7.x SLES 11, 12 OEL 5.x, 6.2, 6.3, 6.4 Scientific Linux 6.x	not supported	ZDB with IR	ZDB with IR
Raw Logical Volume[9]	RHEL 5.x, 6.x, 7.x SLES 11, 12 OEL 5.x, 6.2, 6.3, 6.4 Scientific Linux 6.x	not supported	ZDB with IR	ZDB with IR
File System[9]	RHEL 5.x, 6.x, 7.x SLES 11, 12 OEL 5.x, 6.2, 6.3, 6.4 Scientific Linux 6.x	not supported	ZDB with IR	ZDB with IR
Oracle 11g RMAN offline or online [2,3,4,8,9] Oracle 12c RMAN offline or online[8]	RHEL 5.x, 6.x, 7.x[7] SLES 11[6] OEL 5.x	not supported	ZDB with IR	ZDB with IR
SAP BR*Tools 7.2 offline or online [5,8]	RHEL 5.x, 6.x SLES 11, 11.4[6] OEL 5.x, 6.3	not supported	ZDB with IR	ZDB with IR

1 Includes support for Red Hat Enterprise Linux Workstation and Enterprise Server if applicable.
2 When performing Data Replication enabled backups, ensure that only one SMI-S provider manages the arrays involved.
3 Oracle 11g includes all released versions of 11g and11gR2: 11.x.x.
4 Oracle ASM on RAC is supported only on RHEL 6.x. Oracle ASMlib is mandatory to configure Oracle 11g ASM with Data Protector.
5 The integration is implemented using the "backint" functionality.
6 Serviceguard for Linux 12.00.x is supported.
7 Oracle 12c ASM is supported only on RHEL 7.x (x64)
8 Not supported on 3PAR 3.3.1
9 Also supported on SUSE Linux Enterprise High Availability Extension 11.3

Table 7: Supported configurations - VMware

Supported configurations – VMware[1,3]		
Hypervisor	Single-host Local Copy[2]	Remote Copy[2,4]
VMware ESXi 5.5.x, 6.0	ZDB +Restore	ZDB + Restore

1 VMware VVol (Virtual Volumes) is not supported.
2 Virtual Machine restore from a snapshot, Cached GRE, Power On, and Live Migrate is supported.
3 ZDB operations are not supported for vStorage Image + OpenStack backup method with Virtual Environment Agent.
4 Not supported on 3PAR 3.3.1

Table 8: Supported HPE 3PAR Recovery Manager

Supported HPE 3PAR Recovery Manager
3PAR Recovery Manager for Microsoft Exchange Server
3PAR Recovery Manager for Microsoft SQL Server
3PAR Recovery Manager for Oracle

Data Protector supports HPE 3PAR Recovery Manager for Microsoft SQL Server and Microsoft Exchange. Please refer to the HPE 3PAR Recovery Manager link for the versions of the supported Applications' versions and the supported Operating Systems versions.

Table 9: Supported configurations – HPE StoreOnce Recovery Manager Central

Supported configurations – HPE StoreOnce Recovery Manager Central[1]				
Integration	Backup	Restore	Power On and Live Migrate	GRE
VMware 5.5 U2, 6.0, 6.0 U2	Snapshot Snapshot+Tape Express Protect	Snapshot Snapshot+Tape Express Protect	Snapshot+Tape[2]	Snapshot+Tape[3]

1   StoreOnce Recovery Manager Central version 1.2, 2.0, 3.0, 4.0 and 4.1 is supported.
2   Supported only if the secondary storage devices are Smart Cache and StoreOnce Catalyst devices.
3   Cached GRE supported only from Smart Cache and StoreOnce Catalyst devices.