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Data Protector 24.2

HPE Storage Support Matrix

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Introduction

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 *Data Protector Zero Downtime Backup Administrator's Guide*.

For Data Protector components running in combination with application versions and operating system versions, which are not supported by their respective vendors, the support from Opentext is limited to a reasonable-endeavors basis.

For information about specific Windows versions supported by Data Protector please refer to the Platform and Integration Support Matrix.

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

What's New

What's New

1. Support of HPE Alletra 9.5
2. Support of HPE Alletra 9.5 with Filesystem on Windows
3. Support of HPE Alletra 9.5 with Filesystem on Linux
4. Support of HPE Alletra 9.5 with Oracle on Windows
5. Support of HPE Alletra 9.5 with Oracle on Linux
6. Support of HPE Alletra 9.5 with MS SQL Server on Windows
7. Support of Oracle 19c/21c with HPE 3PAR on Windows Server 2022
8. Support of Oracle 19c/21c with HPE Primers on Windows Server 2022
9. Support of Oracle 19c/21c with HPE Alletra on Windows Server 2022
10. Support of VMware vSphere 8.0 U3 with HPE 3PAR on Windows and Linux
11. Support of VMware vSphere 8.0U3 with HPE Primera on Windows and Linux
12. Support of VMware vSphere 8.0, 8.0 U1, 8.0U2, 8.0U3 with HPE Alletra on Windows and Linux
13. Support of MS SQL Server 2019 with HPE 3PAR, HPE Primera and HPE Alletra on Windows Server 2022
14. Support of MS SQL Server 2022 with HPE 3PAR, HPE Primera and HPE Alletra on Windows Server 2016, 2019, 2022
15. Support of GPT Disks with HPE 3PAR, HPE Primera, HPE Alletra on Windows

Abbreviations used in the Matrix

Abbreviations used in the Matrix	
ZDB	Zero Downtime Backup
IR	Instant Recovery
BC	Business Copy
CA	Continuous Access

Table 1: 3PAR Storage Systems and SMIS integration

3PAR Storage Systems and SMIS integration ^{1,2,3,4}			
InForm OS ^{3,5,7}	Operating System		
	HP-UX IA	Windows Server	Linux
		11.31	2012, 2012 R2, 2016 ⁶ , 2019 ⁶
3.2.2	Supported	Supported	Supported
3.3.1	Supported	Supported	Supported
3.3.2	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 is supported on Windows Server systems.
- 3 3PAR Periodic Remote Copy feature is supported on 3.2.2 MU 2 with Patch P14.
- 4 Storage volumes in volume set are supported.
- 5 Peer Motion migration needs WWNs to be reset for successful backups.
- 6 Supported only for InForm OS version 3.3.1 onwards.

Table 2: Primera Storage Systems and SMIS integration

Primera Storage Systems and SMIS integration ^{1,3,4}			
Primera OS	Operating System		
	Windows Server ²	Linux	HP-UX IA ⁵
		2016, 2019, 2022	SLES 12, 15, RHEL 7, 8
4.0.x	Supported	Supported	Supported
4.1.x	Supported	Supported	Supported
4.2.x	Supported	Supported	Supported
4.3.x ⁵	Supported	Supported	Supported
4.4.x ⁵	Supported	Supported	Supported
4.5.x ⁵	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 is supported on Windows Server systems.
- 3 Storage volumes in volume set are supported.
- 4 Peer Motion migration needs WWNs to be reset for successful backups.
- 5 Remote copy is not supported

Table 3: Alletra 9000 Storage Systems and SMIS integration

Alletra 9000 Storage Systems and SMIS integration ^{1,3,4}		
Alletra OS	Operating System	
	Windows Server ²	Linux
		2016, 2019
9.3.x	Supported	Supported
9.4.x	Supported	Supported
9.5.x	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 is supported on Windows Server systems.
- 3 Storage volumes in volume set are supported.
- 4 Peer Motion migration needs WWNs to be reset for successful backups.

Table 4: Supported microcode and RAID Manager HORCM versions for XP HPE Storage Arrays

Supported microcode and RAID Manager HORCM versions					
XP model	Minimum microcode version required	Minimum RAID Manager Library version required			
		HP-UX	Solaris	Windows	Linux
XP 8	90-09-21-00/00	01.34.00	-	01.34.00	01.34.00
XP 7	70-01-31-00/00	01.15.03	-	01.32.03	-
P9000 Family ^{1,2,3}	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).
- 3 All versions of HPE Business Copy P9000 XP and/or HPE Continuous Access P9000 XP that are supported by RAID Manager Library are supported

Table 5: 3PAR Supported volume managers

3PAR 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	Supported
Linux	not-supported	supported ¹	not supported	not supported	n/a

- 1 Only LVM2 2.02 is supported.

Table 6: Primera Supported volume managers

Primera Supported volume managers					
Operating system	Volume manager				
	LVM	LVM 2	LVM 2.1	VxVM	Disk manager
Windows	n/a	n/a	n/a	not supported	Supported
Linux	not-supported	Supported ¹	not supported	not supported	n/a

- 1 Only LVM2 2.02 is supported.

Table 7: Alletra 9000 Supported volume managers

Alletra 9000 Supported volume managers					
Operating system	Volume manager				
	LVM	LVM 2	LVM 2.1	VxVM	Disk manager
Windows	n/a	n/a	n/a	not supported	Supported
Linux	not-supported	Supported ¹	not supported	not supported	n/a

- 1 Only LVM2 2.02 is supported.

Table 8: XP Supported volume managers

XP 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 multi pathing solutions:

Table 9: Supported alternate path solutions for HPE Storage Arrays

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

Table 10: 3PAR Supported configurations – Windows (x64)

3PAR Supported configurations – Windows (x64) ¹					
Integrations	Supported versions	Windows versions ²	Single-host Local Copy	Dual-host Local Copy	Remote Copy
Raw disk		2012, 2012 R2, 2016, 2019	ZDB with IR	ZDB with IR	ZDB with IR
NTFS file system		2012, 2012 R2, 2016, 2019	ZDB with IR	ZDB with IR	ZDB with IR
Microsoft Exchange Server ³	Microsoft Exchange Server 2013	2012, 2012 R2	-	-	-
	Microsoft Exchange Server 2016	2012, 2012 R2, 2016	-	-	-
Microsoft SQL Server	Microsoft SQL Server 2014	2012, 2012 R2	not supported	ZDB with IR	ZDB with IR ⁴
	Microsoft SQL Server 2016	2012, 2012 R2, 2016	not supported	ZDB with IR	ZDB with IR
	Microsoft SQL Server 2017	2012, 2012 R2, 2016	not supported	ZDB with IR	ZDB with IR
	Microsoft SQL Server 2019	2016, 2019, 2022	not supported	ZDB with IR	ZDB with IR
	Microsoft SQL Server 2022	2016, 2019, 2022	not supported	ZDB with IR	ZDB with IR
Oracle	Oracle 12c ⁹ RMAN offline or online ⁴	2012, 2012 R2	ZDB with IR	ZDB with IR	ZDB with IR

	Oracle 18c RMAN offline or online ^{6,4}	2012, 2012 R2, 2016, 2019	ZDB with IR	ZDB with IR	ZDB with IR
	Oracle 19c RMAN offline or online ^{6,4}	2016, 2019, 2022	ZDB with IR	ZDB with IR	ZDB with IR
	Oracle 21c RMAN offline or online ^{6,4}	2016, 2019, 2022	ZDB with IR	ZDB with IR	ZDB with IR
SAP BR*Tools 7.2 offline or online ⁵	Oracle 12c	2012, 2012 R2	not supported	ZDB with IR	ZDB with IR
SAP BR*Tools 7.4 offline or online ⁵	Oracle 12c	2012, 2012 R2	not supported	ZDB with IR	ZDB with IR
	Oracle 18c	2016, 2019	not supported	ZDB with IR	ZDB with IR
	Oracle 19c	2016, 2019	not supported	ZDB with IR	ZDB with IR

1 GPT Disks is supported.

2 Oracle 12c includes all released versions of 12c R1 and 12c R2: 12.x.x.

3 Microsoft Exchange Server ZDB and IR backups are supported using VSS. For details such as supported array types, writer GUID etc. refer to Data Protector 24.2 VSS Integration Support Matrix.

4 Oracle PDB and CDB are not supported

5 The integration is implemented using "backint" functionality.

6 Oracle ASM is not supported.

Table 11: 3PAR Supported configurations – Linux (x64)

3PAR Supported configurations – Linux (x64)					
Integrations	Supported Versions	RHEL ,SLES, OEL, Scientific Linux versions	Single-host Local Copy	Dual-host Local Copy	Remote Copy
Raw Disk		RHEL 7, 8 SLES 12, 15 OEL 7, 8	not supported	ZDB with IR	ZDB with IR
Raw Logical Volume		RHEL 7, 8 SLES 12, 15 OEL 7, 8	not supported	ZDB with IR	ZDB with IR
File System		RHEL 7, 8 SLES 12, 15 OEL 7, 8	not supported	ZDB with IR	ZDB with IR
Oracle ²	Oracle 12c ¹ RMAN offline or online	RHEL 7 ³ SLES 12 ^{3,4} OEL 7	not supported	ZDB with IR	ZDB with IR
	Oracle 18c RMAN offline or online	RHEL 7 SLES 12 OEL 7	not supported	ZDB with IR	ZDB with IR
	Oracle 19c RMAN offline or online	RHEL 7, 8 SLES 12, 15 OEL 7, 8	not supported	ZDB with IR	ZDB with IR
	Oracle 21c RMAN offline or online	RHEL 7, 8 SLES 12, 15 OEL 7, 8	not supported	ZDB with IR	ZDB with IR
SAP BR*Tools 7.4 offline or online ⁵	Oracle 18c	RHEL 7,8 SLES 12, 15 OEL 7, 8	not supported	ZDB with IR	ZDB with IR
	Oracle 19c	RHEL 7, 8 SLES 12, 15 OEL 7, 8	not supported	ZDB with IR	ZDB with IR

- 1 Oracle 12c includes all released versions of 12c R1 and 12c R2: 12.x.x.
- 2 Oracle PDB and CDB are not supported
- 3 Oracle ASM is supported
- 4 IR backup of non-ASM database is not supported
- 5 The integration is implemented using "backint" functionality.

Table 12: 3PAR Supported configurations – HP-UX on Itanium

3PAR Supported configurations – HP-UX on Itanium				
Integration on HP-UX 11.31 ¹	Supported Versions	Single-host Local Copy	Dual-host Local Copy	Remote Copy
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 ³	Oracle 12c ⁷ RMAN offline or online ²	ZDB with IR	ZDB with IR	ZDB with IR ⁶
	Oracle 18c RMAN offline or online ²	ZDB with IR	ZDB with IR	ZDB with IR ⁶
SAP BR*Tools 7.2 offline or online ^{4,6}	Oracle 12c	not supported	ZDB with IR	ZDB with IR ⁶
SAP BR*Tools 7.4 offline or online ^{4,6}	Oracle 12c	not supported	ZDB with IR	ZDB with IR ⁶

- 1 For HP-UX 11.31, new device special files (DSF) are supported for LVM only.
- 2 Oracle ASM is not supported.
- 3 Oracle PDB and CDB are not supported
- 4 The integration is implemented using "backint" functionality.
- 5 HFS is not supported
- 6 Not supported on 3PAR 3.3.1
- 7 Oracle 12c includes all released versions of 12cR1 and 12cR2

Table 13: 3PAR Supported configurations - VMware

3PAR Supported configurations – VMware ^{1,3,4,5,6}		
Hypervisor	Single-host Local Copy ²	Remote Copy ²
VMware ESXi 7.0, 7.0 U1, 7.0 U2, 7.0 U3, 8.0, 8.0 U1, 8.0 U2, 8.0 U3	ZDB+Restore	ZDB + Restore

- 1 VMware VVol (Virtual Volumes) is supported (except ESXi 7.0).
- 2 Virtual Machine restore from a snapshot, Cached GRE, Power On and Live Migrate are supported.
- 3 IR is not supported.
- 4 Only the FC Protocol and the RDM configuration are supported
- 5 The VMware "ATTACH DISK" feature, can be used for granular recovery of data. This feature is only supported through CLI.
- 6 GRE from a snapshot on Linux is not supported

Table 14: Primera Supported configurations – Windows (x64)

Primera Supported configurations – Windows (x64) ¹					
Integrations	Supported Versions	Windows versions	Single-host Local Copy	Dual-host Local Copy	Remote Copy
Raw disk		2012 R2, 2016, 2019	ZDB with IR	ZDB with IR	ZDB with IR
NTFS file system		2012 R2, 2016, 2019	ZDB with IR	ZDB with IR	ZDB with IR
Microsoft SQL Server	Microsoft SQL Server 2016	2016, 2019	not supported	ZDB with IR	ZDB with IR
	Microsoft SQL Server 2017	2016, 2019	not supported	ZDB with IR	ZDB with IR
	Microsoft SQL Server 2019	2016, 2019, 2022	not supported	ZDB with IR	ZDB with IR
	Microsoft SQL Server 2022	2016, 2019, 2022	not supported	ZDB with IR	ZDB with IR

Oracle ^{2,3}	Oracle 18c RMAN offline or online	2016, 2019	ZDB with IR	ZDB with IR	ZDB with IR
	Oracle 19c RMAN offline or online	2016, 2019, 2022	ZDB with IR	ZDB with IR	ZDB with IR
	Oracle 21c RMAN offline or online	2016, 2019, 2022	ZDB with IR	ZDB with IR	ZDB with IR
SAP BR*Tools 7.4 offline or online ⁴	Oracle 18c	2016, 2019	not supported	ZDB with IR	ZDB with IR
	Oracle 19c	2016, 2019	not supported	ZDB with IR	ZDB with IR

- 1 GPT Disks is supported.
- 2 Oracle ASM is not supported.
- 3 Oracle PDB and CDB are not supported.
- 4 The integration is implemented using "backint" functionality.

Table 15: Primera Supported configurations – Linux (x64)

Primera Supported configurations – Linux (x64)					
Integrations	Supported Versions	RHEL ¹ , SLES, OEL Versions	Single-host Local Copy	Dual-host Local Copy	Remote Copy
Raw Disk		RHEL 7, 8 SLES 12,15 OEL 7, 8	not supported	ZDB with IR	ZDB with IR
Raw Logical Volume		RHEL 7, 8 SLES 12, 15 OEL 7, 8	not supported	ZDB with IR	ZDB with IR
File System		RHEL 7, 8 SLES 12, 15 OEL 7, 8	not supported	ZDB with IR	ZDB with IR
Oracle ^{2,3}	Oracle 18c RMAN offline or online	RHEL 7 SLES 12 OEL 7	not supported	ZDB with IR	ZDB with IR
	Oracle 19c RMAN offline or online	RHEL 7, 8 SLES 12, 15 OEL 7, 8	not supported	ZDB with IR	ZDB with IR
	Oracle 21c RMAN offline or online	RHEL 7, 8 SLES 12, 15 OEL 7, 8	not supported	ZDB with IR	ZDB with IR
SAP BR*Tools 7.4 offline or online ⁴	Oracle 18c	RHEL 7,8 SLES 12, 15 OEL 7, 8	not supported	ZDB with IR	ZDB with IR
	Oracle 19c	RHEL 7, 8 SLES 12, 15 OEL 7, 8	not supported	ZDB with IR	ZDB with IR

- 1 Includes support for Red Hat Enterprise Linux Workstation and Enterprise Server if applicable.
- 2 Oracle ASM is not supported
- 3 Oracle PDB and CDB are not supported
- 4 The integration is implemented using "backint" functionality.

Table 16: Primera Supported configurations – HP-UX on Itanium

Primera Supported configurations – HP-UX on Itanium				
Integration on HP-UX 11.31 ^{1,2}	Supported Versions	Single-host Local Copy	Dual-host Local Copy	Remote Copy
Raw disk		ZDB with IR	ZDB with IR	not supported
Raw logical volume		ZDB with IR	ZDB with IR	not supported
File system		ZDB with IR	ZDB with IR	not supported
Oracle ^{3,4}	Oracle 18c RMAN offline or online	ZDB with IR	ZDB with IR	not supported
	Oracle 19c RMAN offline or online	ZDB with IR	ZDB with IR	not supported
	Oracle 21c RMAN offline or online	ZDB with IR	ZDB with IR	not supported
SAP BR*Tools 7.4 offline or online ⁵	Oracle 18c	not supported	ZDB with IR	not supported
	Oracle 19c	not supported	ZDB with IR	not supported

- 1 For HP-UX 11.31, new device special files (DSF) are supported for LVM only.
- 2 HFS is not supported
- 3 Oracle ASM is not supported.
- 4 Oracle PDB and CDB are not supported
- 5 The integration is implemented using "backint" functionality.

Table 17: Primera Supported configurations - VMware

Primera Supported configurations – VMware ^{2,3,4,5}		
Hypervisor	Single-host Local Copy ¹	Remote Copy
VMware ESXi 7.0, 7.0 U1, 7.0 U2, 7.0 U3, 8.0, 8.0 U1, 8.0 U2, 8.0 U3	ZDB +Restore	Not Supported

- 1 Virtual Machine restore from a snapshot, Cached GRE, Power On and Live Migrate are supported.
- 2 IR is not supported.
- 3 Only the FC Protocol and the RDM configuration are supported
- 4 The VMware "ATTACH DISK" feature, can be used for granular recovery of data. This feature is only supported through CLI.
- 5 GRE from a snapshot on Linux is not supported

Table 18: Alletra 9000 Supported configurations – Windows (x64)

Alletra 9000 Supported configurations – Windows (x64) ¹					
Integrations	Supported Versions	Windows versions	Single-host Local Copy	Dual-host Local Copy	Remote Copy
Raw disk		2012 R2, 2016, 2019	ZDB with IR	ZDB with IR	ZDB with IR
NTFS file system		2012 R2, 2016, 2019	ZDB with IR	ZDB with IR	ZDB with IR
Microsoft SQL Server	Microsoft SQL Server 2016	2016, 2019	not supported	ZDB with IR	ZDB with IR
	Microsoft SQL Server 2017	2016, 2019	not supported	ZDB with IR	ZDB with IR
	Microsoft SQL Server 2019	2016, 2019, 2022	not supported	ZDB with IR	ZDB with IR
	Microsoft SQL Server 2022	2016, 2019, 2022	not supported	ZDB with IR	ZDB with IR
Oracle ^{2,3}	Oracle 18c RMAN offline or online	2016, 2019	ZDB with IR	ZDB with IR	ZDB with IR
	Oracle 19c RMAN offline or online	2016, 2019, 2022	ZDB with IR	ZDB with IR	ZDB with IR

Oracle 21c RMAN offline or online	2016, 2019, 2022	ZDB with IR	ZDB with IR	ZDB with IR
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- 1 GPT Disks is supported.
- 2 Oracle ASM is not supported.
- 3 Oracle PDB and CDB are not supported.

Table 19: Alletra 9000 Supported configurations – Linux (x64)

Alletra 9000 Supported configurations – Linux (x64)					
Integrations	Supported Versions	RHEL ¹ , SLES, OEL Versions	Single-host Local Copy	Dual-host Local Copy	Remote Copy
Raw Disk		RHEL 7, 8 SLES 12,15 OEL 7, 8	not supported	ZDB with IR	ZDB with IR
Raw Logical Volume		RHEL 7, 8 SLES 12, 15 OEL 7, 8	not supported	ZDB with IR	ZDB with IR
File System		RHEL 7, 8 SLES 12, 15 OEL 7, 8	not supported	ZDB with IR	ZDB with IR
Oracle ^{2,3}	Oracle 18c RMAN offline or online	RHEL 7 SLES 12, OEL 7	not supported	ZDB with IR	ZDB with IR
	Oracle 19c RMAN offline or online	RHEL 7, 8 SLES 12, 15 OEL 7, 8	not supported	ZDB with IR	ZDB with IR
	Oracle 21c RMAN offline or online	RHEL 7, 8 SLES 12, 15 OEL 7, 8	not supported	ZDB with IR	ZDB with IR

- 1 Includes support for Red Hat Enterprise Linux Workstation and Enterprise Server if applicable.
- 2 Oracle ASM is not supported
- 3 Oracle PDB and CDB are not supported

Table 20: Alletra 9000 Supported configurations - VMware

Alletra 9000 Supported configurations – VMware ^{2,3,4,5}		
Hypervisor	Single-host Local Copy ¹	Remote Copy
VMware ESXi 7.0, 7.0 U1, 7.0 U2, 7.0 U3, 8.0, 8.0 U1, 8.0 U2, 8.0 U3	ZDB +Restore	Not Supported

- 1 Virtual Machine restore from a snapshot, Cached GRE, Power On and Live Migrate are supported.
- 2 IR is not supported.
- 3 Only the FC Protocol and the RDM configuration are supported
- 4 The VMware "ATTACH DISK" feature, can be used for granular recovery of data. This feature is only supported through CLI.
- 5 GRE from a snapshot on Linux is not supported

Table 21: XP Supported configurations – Windows (x64)

XP Supported configurations – Windows (x64) ^{1,2}						
Integrations	Supported Versions	Windows Versions	Single-host BC	Dual-host BC	CA	CA and BC (combined)
Raw disk		2012, 2012 R2	ZDB with IR	ZDB with IR	ZDB	ZDB
NTFS file system		2012, 2012 R2	ZDB with IR	ZDB with IR	ZDB	ZDB ³
Microsoft SQL Server	Microsoft SQL Server 2014	2012, 2012 R2	not supported	ZDB with IR	ZDB	ZDB ³
	Microsoft SQL Server 2017	2012, 2012 R2	not supported	ZDB with IR	ZDB	ZDB ³

	Microsoft SQL Server 2019	2016, 2019, 2022	not supported	ZDB with IR	ZDB	ZDB ³
	Microsoft SQL Server 2022	2016, 2019, 2022	not supported	ZDB with IR	ZDB	ZDB ³
Oracle ^{6,7}	Oracle 12c ⁸ RMAN offline or online	2012, 2012 R2	ZDB with IR	ZDB with IR	ZDB	ZDB ³
	Oracle 18c RMAN offline or online	2012, 2012 R2 2016, 2019	ZDB with IR	ZDB with IR	ZDB	ZDB ³
	Oracle 19c RMAN offline or online	2016, 2019, 2022	ZDB with IR	ZDB with IR	ZDB	ZDB ³
	Oracle 21c RMAN offline or online	2016, 2019, 2022	ZDB with IR	ZDB with IR	ZDB	ZDB ³
SAP BR*Tools 7.2 offline or online ⁴	Oracle 12c	2012, 2012 R2	not supported	ZDB with IR	ZDB	ZDB ³
SAP BR*Tools 7.4 offline or online ⁴	Oracle 12c	2012, 2012 R2	not supported	ZDB with IR	ZDB	ZDB ³
SAP BR*Tools 7.4 offline or online ⁴	Oracle 18c	2016, 2019	not supported	ZDB with IR	ZDB	ZDB ³
SAP BR*Tools 7.4 offline or online ⁴	Oracle 19c	2016, 2019, 2022	not supported	ZDB with IR	ZDB	ZDB ³

1 Includes support for Thin Provisioned LUNs with P9500 array.

2 GPT partitions are not supported.

3 If secondary volume for CA or primary volume for BC is not connected to the backup host

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

5 Oracle 12c includes all released versions of 12c R1 and 12c R2: 12.x.x.

6 Oracle ASM is not supported.

7 Oracle PDB and CDB are not supported

Table 22: XP Supported configurations - Linux

XP Supported configurations – Linux ^{1, 4}						
Integrations	Supported Versions	RHEL/SLES Versions	Single-host BC	Dual-host BC	CA	CA and BC (combined)
Raw Disk		RHEL 7, 8, 9 SLES 12, 15	not supported	ZDB with IR	ZDB	ZDB
Raw logical volume		RHEL 7, 8, 9 SLES 12, 15	not supported	ZDB with IR	ZDB	ZDB
File system		RHEL 7, 8, 9 SLES 12, 15	not supported	ZDB with IR	ZDB	ZDB
Oracle ²	Oracle 12c ⁵ RMAN offline or online	RHEL 7 SLES 12 ^{3, 6}	not supported	ZDB with IR	ZDB	ZDB
	Oracle 19c RMAN offline or online	RHEL 8, 9 SLES 12, 15	not supported	ZDB with IR	ZDB	ZDB
	Oracle 21c RMAN offline or online	RHEL 8 SLES 15	not supported	ZDB with IR	ZDB	ZDB
SAP BR*Tools 7.4 offline or online ⁷	Oracle 19c	RHEL 8, 9 SLES 12, 15	not supported	ZDB with IR	ZDB	ZDB

1 Only ext3 and ext4 file systems are supported.

2 Oracle PDB and CDB are not supported

3 Only ASM is supported

4 1:N mirror configuration is not supported.

5 Oracle 12c includes all released versions of 12c R1 and 12c R2: 12.x.x.

6 Not supported with XP 8

Table 23: XP Supported configurations – HP-UX on Itanium

XP Supported configurations – HP-UX on Itanium					
Integrations on HP-UX 11.31 ¹	Supported Versions	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 ⁵	Oracle 12c ² R1 RMAN offline or online ⁴	ZDB with IR	ZDB with IR	ZDB	ZDB
	Oracle 18c RMAN offline or online ^{4,6}	ZDB with IR	ZDB with IR	ZDB	ZDB
	Oracle 19c RMAN offline or online ^{5, 6}	ZDB with IR	ZDB with IR	ZDB	ZDB
	Oracle 21c RMAN offline or online ^{5,6}	ZDB with IR	ZDB with IR	ZDB	ZDB
SAP BR*Tools 7.2 offline or online ³	Oracle 12c	not supported	ZDB with IR	ZDB	ZDB

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

2 Oracle 12c includes all released versions of 12c R1 and 12c R2: 12.x.x.

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

4 In the case of Oracle 12c R1 ASM in the offline configuration, disk+tape backup is not supported

5 Oracle PDB and CDB are not supported

6 ASM is not Supported

Table 24: XP Supported configurations – Solaris (SPARC)

XP Supported configurations – Solaris (SPARC)					
Integration on Sun Solaris 10, 11	Supported Versions	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 ^{2,3,4}	Oracle 12c	ZDB with IR	ZDB with IR	ZDB	ZDB
SAP BR*Tools 7.2 offline or online ¹	Oracle 12c	not supported	ZDB with IR	ZDB	ZDB

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

2 Oracle 12c includes all released versions of 12c R1 and 12c R2: 12.x.x.

3 Oracle PDB and CDB are not supported

4 ASM is not Supported

Table 25: 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, Microsoft Exchange and Oracle. Please refer to the [HPE 3PAR Recovery Manager link](#) for the versions of the supported Applications' versions and the supported Operating Systems versions.