



# **Opentext Data Protector 24.4 Virtualization Support Matrix**

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## ***Introduction***

*Note:* The combinations of Data Protector components with operating systems and/or application versions are supported by Data Protector if the associated operating system and/or application versions are supported by respective vendors.

All guest operating systems supported by the respective vendors are supported with Data Protector if they are listed as supported on physical hosts in the *Data Protector 24.4 Platform and Integration Support Matrix*.

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

Quiescent state of MS File Systems and Applications within a VMware virtual machine is handled and supported by VMware Tools

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

## *What's New*

### What's New

1. [Agent based support of HPE VM Essentials Virtual Machines](#)

Table 1: VMware vSphere support

VMware vSphere support <sup>1,2,3,4,5,6,7,8,12,13</sup>	
VMware vSphere Server / VMware Virtual Server Appliance	7.0, 7.0 U1, 7.0 U2 <sup>14</sup> , 7.0 U3 <sup>9,10,11,14</sup> 8.0 <sup>10, 14</sup> , 8.0 U1 <sup>10, 14</sup> , 8.0 U2 <sup>10, 14</sup> , 8.0 U3 <sup>10, 14</sup> 9.0. <sup>14</sup>

- <sup>1</sup> Data Protector supports only the above mentioned VMware vSphere versions.  
The ESXi Servers supported by these VMware vSphere versions are supported as Data Protector Application clients.
- <sup>2</sup> For the respective ESX Server support, refer to the VMware Product Interoperability Matrix using the following link:  
[https://partnerweb.vmware.com/comp\\_guide2/sim/interop\\_matrix.php](https://partnerweb.vmware.com/comp_guide2/sim/interop_matrix.php).
- <sup>3</sup> Data Protector does not support free ESXi licenses.
- <sup>4</sup> Raw Disk Mappings is supported with VADP based backups in virtual mode but not supported in physical mode.
- <sup>5</sup> The VMware VVol (Virtual Volumes) are supported for VMs that are hosted on 3PAR VVol only.
- <sup>6</sup> The Granular Recovery Extension (GRE) using the VCenter interface is compatible with VMware vSphere 7.0 to 7.0 U3  
For Cached GRE using Smart Cache, mount proxy and backup server should be the same host (for NAS devices).
- <sup>7</sup> The VMware VVol (Virtual Volumes) is not supported.
- <sup>8</sup> The VMware GRE with Smart Cache is not supported on Linux
- <sup>9</sup> HotAdd transport mode is not supported with a backup host on SLES 15 and later service packs
- <sup>10</sup> For VMware GRE, use the following KB article that VMware recommends:  
<https://kb.vmware.com/s/article/85632>
- <sup>11</sup> Data Protector VMware "ATTACH DISK" feature can be used for GRE. This feature is only supported through CLI.
- <sup>12</sup> Data Protector VMware GRE VCenter plugin is not supported from vSphere 8.0 onwards.
- <sup>13</sup> The VMware GRE from the Home context of the Data Protector UI is supported. This is however not supported for Disk arrays
- <sup>14</sup>

Table 2: Supported devices for cached granular recovery

Supported devices for cached granular recovery
Smart Cache (only full backups)
StoreOnce Backup System
Data Domain Boost
Data Protector Deduplication Store

Table 3: Data Protector Virtual Environment Agent platform support (VDDK)

Supported platforms for Data Protector and VMware VDDK component <sup>1,2,3,4,5</sup>	
VMware VDDK component	Supported backup / mount proxy operating systems
VDDK 8.0 U3	Windows Server 2016, 2019, 2022 Red Hat Enterprise Linux RHEL 7.9, 8.1, 8.2, 8.6, 8.8, 9.0, 9.1, 9.2, 9.3 (x64) <sup>6,7</sup> CentOS 7, 8.5, 9 (x64) <sup>6,7</sup> SUSE Linux Enterprise Server 12 SP5, 15 SP5 (x64) <sup>6,7</sup>

- <sup>1</sup> Data Protector supports guest operating systems that are supported by VMware
- <sup>2</sup> GPT disks are supported for Backup and Restore.
- <sup>3</sup> Data Protector supports backup of SATA and NVMe disks.
- <sup>4</sup> The supported operating systems are based on guidance from VMWare.
- <sup>5</sup> Supported partition type for GRE: Linux partition (ID 83), Linux LVM partition (ID 8E).
- <sup>6</sup> Linux mount proxies do not support granular recovery of ownership, ACLs, file attributes, and alternate data streams for files and folders in the Windows guest virtual machines.
- <sup>7</sup>

File System	Mount Proxy Operating System		
	RHEL 7.9, 8.1, 8.2, 8.6, 9.0, 9.1, 9.2, 9.3	CentOS 7.0, 9.0	SLES 12.5, 15.1, 15.5
ext2	✓	✓	✓
ext3	✓	✓	✓
ext4	✓	✓	✓
reiserfs	-	-	✓
xfs	✓	✓	✓
ntfs <sup>6</sup>	✓	✓	✓

Table 4: Data Protector Virtual Environment Agent platform support for H3C CAS

Data Protector Virtual Environment Agent platform support <sup>1</sup>		
Data Protector components	Platforms	Supported backup / mount proxy operating systems
Virtual Environment Agent	• H3C CAS 5.0(E0522 and E0526)	Windows Server 2012, 2012 R2 (x64) RHEL 7 (x64) SLES 12 (x64) CentOS 7(x64)
	• H3C CAS 5.0 (E0550, E0708, E0710)	Cent OS 7.5, 7.6, 7.8 (x64)

<sup>1</sup> Data Protector supports guest operating systems that are supported by the respective operating system vendor and are supported as a guest operating system by H3C CAS

Data Protector supports the following virtualization application-specific features, which enable VSS snapshots for instant recovery without an agent inside the VMs.

Table 5: Microsoft Hyper-V Virtualization application integration support

Virtualization application integration support		
Virtualization application (Microsoft Hyper-V Server)	Data Protector component	Supported application components
2012 <sup>1</sup> , 2012 R2 <sup>1</sup> , 2016 <sup>1,4</sup> , 2019 <sup>1,4</sup> , 2022 <sup>4</sup>	Microsoft Volume Shadow Copy Integration	VSS based snapshots of VMs
2012 <sup>1,3,4</sup> , 2012 R2 <sup>1,3,4</sup> , 2016 <sup>1,3,4</sup> , 2019 <sup>1,2,3,4</sup> , 2022 <sup>2,3,4</sup>	Virtual Environment Agent	VSS based snapshots of VMs (cluster aware)
2016 <sup>4</sup> , 2019 <sup>4</sup> , 2022 <sup>4</sup>	Virtual Environment Agent	Hyper-V RCT <sup>3</sup> based snapshots of VMs

<sup>1</sup> Instant recovery for Hyper-V VSS snapshots is done using the SMIS-A agent.

<sup>2</sup> Restore to target storage path not supported due to known Microsoft Limitation

<sup>3</sup> [Scale-Out File Server with cluster storage volume recommended by Microsoft for SMB on Hyper V Cluster](#)

<sup>4</sup> The Microsoft Hyper-V GRE from the Home context of the Data Protector UI is supported.

Table 6: Supported configurations – H3C CAS

Supported configurations				
Integration	Backup	Restore	Power On and Live Migrate	GRE
H3C CAS 5.0 <sup>1,2</sup>	Supported	Supported	Not Supported	Not Supported

<sup>1</sup> Supported CAS Server versions are E0522, E0526, E0550, E0708, E0710

<sup>2</sup> E0550 and E0708 support only the Cached method. E0522 and E0526 supports only Non-Cached method

Table 7: Supported configurations – Red Hat KVM

Supported configurations <sup>1</sup>				
Integration	Backup	Restore	Power On and Live Migrate	GRE
KVM 1.4.x	Supported	Supported	Not Supported	Not Supported

<sup>1</sup> This is a scripted solution which processes data using Filesystem Backup and Restore.

Table 8: Supported configurations – Nutanix vSphere

Supported configurations				
Integration	Backup	Restore	Power On and Live Migrate	GRE
Nutanix 5.10.1 LTS	Supported	Supported	Not Supported	Not Supported

Table 9: Supported configurations – Nutanix AHV

Supported configurations <sup>1,3</sup>				
Integration	Backup	Restore	Power On and Live Migrate	GRE
Nutanix 5.10.3 LTS	Supported	Supported	Not Supported	Supported <sup>2</sup>
Nutanix 7.5.0 LTS	Supported	Supported	Not Supported	Supported <sup>2</sup>

<sup>1</sup> This is a scripted solution (File-level, Image-level) which processes data using Filesystem/Raw-Image Backup and Restore.

<sup>2</sup> This is supported for virtual machines backed up using the File-level scripted solution

<sup>3</sup> Cell manager and backup proxy host must be Linux

Table 10: Supported configurations – HPE SimpliVity Storage

Supported configurations – HPE SimpliVity Storage <sup>1</sup>				
Integration	Backup	Restore	Power On and Live Migrate	GRE
VMware 7.0, 7.0 U1, 7.0 U2, 7.0 U3	Supported	Supported	Supported	Supported

<sup>1</sup> Supported HPE SimpliVity Storage version is 3.7.0 and above

The following table lists various Data Protector components supported inside the guest operating systems:

Table 11: Supported components inside virtual machines

Supported components inside virtual machines	
Virtualization application	Supported Data Protector components
VMware <sup>1</sup>	<ul style="list-style-type: none"> <li>Cell Manager/Installation Server</li> <li>Manager of Managers</li> <li>Disk Agent</li> <li>Media Agent<sup>2</sup></li> <li>Graphical User Interface</li> <li>Online Extension Agents<sup>3</sup></li> <li>StoreOnce Software Deduplication</li> <li>HPE P9000 XP SSEA Agent<sup>4</sup></li> <li>HPE 3PAR SMI-S Agent<sup>4</sup></li> <li>VSS Agent<sup>5</sup></li> <li>Other application integration agents as per the OS/Application Support Matrix</li> </ul>
Microsoft Hyper-V <sup>6</sup>	<ul style="list-style-type: none"> <li>Cell Manager/Installation Server</li> <li>Manager of Managers</li> <li>Disk Agent</li> <li>Media Agent</li> <li>Graphical User Interface</li> <li>Online Extension Agents<sup>3</sup></li> <li>StoreOnce Software Deduplication</li> <li>HPE P9000 XP SSEA Agent<sup>4</sup></li> <li>VSS Agent<sup>6</sup></li> <li>Other application integration agents as per the OS/Application Support Matrix</li> </ul>
HPE VM Essentials	<ul style="list-style-type: none"> <li>Cell Manager/Installation Server</li> <li>Manager of Managers</li> <li>Disk Agent</li> <li>Media Agent<sup>2</sup></li> <li>Graphical User Interface</li> <li>Online Extension Agents<sup>3</sup></li> <li>StoreOnce Software Deduplication</li> <li>HPE P9000 XP SSEA Agent<sup>4</sup></li> <li>HPE 3PAR SMI-S Agent<sup>4</sup></li> <li>VSS Agent<sup>5</sup></li> <li>Other application integration agents as per the OS/Application Support Matrix</li> </ul>
HPE Integrity Virtual Machines (IVM)	<ul style="list-style-type: none"> <li>Disk Agent</li> <li>Media Agent<sup>7</sup></li> <li>Online Extension Agents<sup>3</sup></li> </ul>

	<ul style="list-style-type: none"> <li>• HPE P9000 XP SSEA Agent<sup>4</sup></li> <li>• <b>Other application integration agents as per the OS/Application Support Matrix</b></li> </ul>
Solaris Zones	<ul style="list-style-type: none"> <li>• Disk Agent (Global and Local Zones)</li> <li>• Media Agent (Global Zone)</li> <li>• Oracle Online Agent (Global and Local Zones)</li> <li>• <b>Other application integration agents as per the OS/Application Support Matrix</b></li> </ul>
Oracle VM	<ul style="list-style-type: none"> <li>• Cell Manager/Installation Server</li> <li>• Manager of Managers</li> <li>• Disk Agent</li> <li>• Media Agent</li> <li>• Graphical User Interface</li> <li>• Online Extension Agents<sup>3</sup></li> <li>• StoreOnce Software Deduplication</li> <li>• HPE P9000 XP SSEA Agent<sup>4</sup></li> <li>• VSS Agent <sup>5</sup></li> <li>• Oracle Online Agent</li> <li>• <b>Other application integration agents as per the OS/Application Support Matrix</b></li> </ul>
Red Hat, KVM	<ul style="list-style-type: none"> <li>• Cell Manager/Installation Server</li> <li>• Manager of Managers</li> <li>• Disk Agent</li> <li>• Media Agent</li> <li>• Online Extension Agents<sup>3</sup></li> <li>• StoreOnce Software Deduplication</li> <li>• HPE P9000 XP SSEA Agent<sup>4</sup></li> <li>• <b>Other application integration agents as per the OS/Application Support Matrix</b></li> </ul>

<sup>1</sup> Includes support for Virtual Infrastructure and vSphere components like vMotion, HA, DRS.

<sup>2</sup> Supported for HPE StoreOnce Backup Systems with iSCSI and Catalyst, file devices, HPE StoreOnce Backup System using Catalyst, HPE StoreOnce Software, DPD and file libraries only.

<sup>3</sup> Valid for all applications that are listed as supported in Data Protector 24.4 Platform and Integration Support Matrix and are supported by respective vendors inside a virtual machine

<sup>4</sup> Includes application integrations listed in the Data Protector 24.4 HPE Storage Support Matrix for HPE P9000 XP and HPE 3PAR Disk Array Family Using SMI-S Agent. For more information on instant recovery, see Data Protector Zero Downtime Backup Integration Guide.

<sup>5</sup> In case of VSS backups, the application host can be a virtual host, but the backup host for FC based arrays (3PAR, XP, etc) must be a physical server. For details of the supported VSS configurations, see the Data Protector 24.4 VSS Integration Support Matrix

<sup>6</sup> Individual disk restores are only supported for Windows Hyper-V Server 2012 or later.

<sup>7</sup> Support includes attached AVIO Devices.