



HP Data Protector 8.00 Virtualization Support Matrix

Version: 1.9

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Note: The combinations of Data Protector component + operating system and/or application versions listed in this support matrix are only supported by Data Protector as long as 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 as long as they are listed as supported on physical hosts in the *HP Data Protector 8.00 Platform and Integration Support Matrix*.

Following table lists various Data Protector components supported on the guest operating systems:

Supported components inside virtual machines	
Virtualization application	Supported Data Protector components
VMware ⁷ :	<ul style="list-style-type: none"> • Cell Manager/Installation Server • Manager of Managers • Disk Agent • Media Agent ¹ • Graphical User Interface • Online Extension Agents² • StoreOnce Software Deduplication • HP P9000 XP, SSEA Agent³ • HP P6000 EVA, SMI-S Agent⁴ • VSS Agent ⁵
Microsoft Hyper-V	<ul style="list-style-type: none"> • Cell Manager/Installation Server • Manager of Managers • Disk Agent • Media Agent • Graphical User Interface • Online Extension Agents² • StoreOnce Software Deduplication • HP P9000 XP, SSEA Agent³ • HP P6000 EVA, SMI-S Agent⁴ • VSS Agent ⁵
HP Integrity Virtual Machines (IVM)	<ul style="list-style-type: none"> • Cell Manager/Installation Server • Disk Agent • Media Agent ⁶ • Manager of Managers • Online Extension Agents² • HP P9000 XP, SSEA Agent³
Citrix XenServer	<ul style="list-style-type: none"> • Cell Manager/Installation Server • Manager of Managers • Disk Agent • Media Agent • Graphical User Interface • Online Extension Agents²
Solaris Zones	<ul style="list-style-type: none"> • Disk Agent (Global and Local Zones)

	<ul style="list-style-type: none"> • Media Agent (Global Zone) • Oracle Online Agent (Global and Local Zones)
Oracle VM	<ul style="list-style-type: none"> • Cell Manager/Installation Server • Manager of Managers • Disk Agent • Media Agent ¹ • Graphical User Interface • Online Extension Agents² • StoreOnce Software Deduplication • HP P9000 XP, SSEA Agent³ • HP P6000 EVA, SMI-S Agent⁴ • VSS Agent ⁵ • Oracle Online Agent
Red Hat, KVM	<ul style="list-style-type: none"> • Cell Manager/Installation Server • Manager of Managers • Disk Agent • Media Agent • Online Extension Agents² • StoreOnce Software Deduplication • HP P9000 XP, SSEA Agent³ • HP P6000 EVA, SMI-S Agent⁴

¹ Supported for HP StoreOnce Backup Systems with iSCSI and Catalyst, file devices, HP StoreOnce B6200 Backup System using Catalyst, HP Store Once Software, and file libraries only.

² Valid for all applications that are listed as supported in *HP Data Protector 8.00 Platform and Integration Support Matrix* and are supported by respective vendors inside a virtual machine

³ Includes application integrations listed in the *HP Data Protector 8.00 Zero Downtime Backup and Instant Recovery Support Matrix for HP P9000 XP Disk Array Family*

⁴ Includes application integrations listed in the *HP Data Protector 8.00 Zero Downtime Backup and Instant Recovery Support Matrix for HP P6000 EVA Disk Array Family Using SMI-S Agent*

⁵ In case of VSS backups, the application host can be a virtual host, but the backup host for FC based arrays (EVA, XP, etc) must be a physical server. For details of the supported VSS configurations, see the *HP Data Protector 8.00 VSS Integration Support Matrix*

⁶ Support includes attached AVIO Devices

⁷ On VMware DP Agents are supported only on VMs and not on the base host, with the below exception

1. DA on ESX 3.x and 4.x

2. MA on ESX 4.x

Data Protector 8.0.0 Virtual Environment Agent platform support^{3, 4}

Data Protector component	VMware component	Supported backup host operating systems
Virtual Environment Agent (vStorage API support for Data Protection) ^{1, 2}	<ul style="list-style-type: none"> • VMware vCenter Server 4.0, 4.1, 5.0.x, 5.1.0; VMware ESX 4.0, 4.1, ESXi 4.0, 4.1 and ESXi 5.0.x, 5.1.0 	<ul style="list-style-type: none"> Windows Server 2003 SP2 (64-bit) (x64) Windows Server 2008 (64-bit) (x64) Windows Server 2008 R2 (64bit)(x64) Red Hat Enterprise Linux 5.3, 5.4 and 5.5 (64-bit)(x64) SUSE Linux Enterprise Server 11 (64-bit)(x64)
	<ul style="list-style-type: none"> • VMware vCloud Director 1.5.0, 1.5.1 	<ul style="list-style-type: none"> Windows Server 2008 (32-bit) Windows Server 2008 (64bit)(x64) Windows Server 2008 R2 (64bit)(x64)

¹ Virtual Environment Agent does not support IPv6. The functionality is only available with native Windows graphical user interface.

² Raw Disk Mappings is supported with VADP based backups in virtual mode but not supported in physical mode.

³ Data Protector supports all guest Operating Systems that are supported as guest Operating Systems by VMware.

⁴ For the additional information about supported components, please refer to the VMware VDDK release notes page: <https://www.vmware.com/support/developer/vddk/VDDK-501-ReleaseNotes.html>

Data Protector 8.0.1 Virtual Environment Agent platform support ^{3, 4}		
Data Protector component	VMware component	Supported backup host operating systems
Virtual Environment Agent (vStorage API support for Data Protection) ^{1, 2}	<ul style="list-style-type: none"> VMware vCenter Server 5.0, 5.1.x; VMware ESXi 5.0.x, 5.1.x 	Windows Server 2008 R2 (64bit)(x64) Windows Server 2012 (64bit)(x64) Red Hat Enterprise Linux 6.1 (64-bit)(x64) SUSE Linux Enterprise Server 11 SP2 (64-bit)(x64)
	<ul style="list-style-type: none"> VMware vCloud Director 1.5.0, 1.5.1 	Windows Server 2008 (32-bit) Windows Server 2008 (64bit)(x64) Windows Server 2008 R2 (64bit)(x64)

¹ Virtual Environment Agent does not support IPv6. The functionality is only available with native Windows graphical user interface.

² Raw Disk Mappings is supported with VADP based backups in virtual mode but not supported in physical mode.

³ Data Protector supports all guest Operating Systems that are supported as guest Operating Systems by VMware.

⁴ For the additional information about supported components, please refer to the VMware VDDK release notes page: <https://www.vmware.com/support/developer/vddk/vddk-511-releasenotes.html>

Data Protector Virtual Environment Agent support for Microsoft Hyper-V ¹
Microsoft Hyper-V
Microsoft Hyper-V R2
Microsoft Hyper-V Server 2012

¹ For supported operating system versions, refer to Microsoft Hyper-V support manuals.

Granular Recovery Extension for VMware vSphere

Data Protector component	VMware component	Supported operating system / version
Granular Recovery Extension for VMware vSphere ⁵	<ul style="list-style-type: none"> VMware vCenter Server 5.0.0, 5.0 U1, 5.1 VMware vCenter Server 5.1 U1 VMware Mount Proxy VMware ESX Server 	Windows Server 2008 R2 (x64) Windows Server 2008 R2 (x64) Windows Server 2012 (x64) Windows Server 2003 R2 (x64) Windows Server 2008 R2 (x64) Windows Server 2012 (x64) Red Hat Enterprise Linux 6.1 (64-bit)(x64) ^{2,4} SUSE Linux Enterprise Server 11.2 (64-bit)(x64) ^{2,3,4} ESX 4.0, ESXi 4.0 ESX 4.1, ESXi 4.1 ESXi 5.0, 5.0 U1, ESXi 5.1 , ESXi 5.1 U1

¹ Only Versions RHEL 5.3 and above are supported

² Supported partition type: Linux partition (ID 83)

³ For SUSE 11.x Minimal kernel version 2.6.27.21

File System on mount proxy	Operating system	
	Red Hat 6	SUSE 11
ext2	-	-
ext3	-	✓
ext4	✓	-
reiserfs	-	-
xfs	-	-
ntfs	-	-

⁵ VMware vCenter Linux Virtual appliance is not supported

The zero downtime backup and instant recovery feature in virtual environments is enabled by installing the respective array and application agents inside the virtual machines running the applications. Following is a listing of supported configurations:

Supported ZDB/IR configurations for virtual environments				
Virtualization application	Array type	Application host operating system (guest OS)	Backup host operating system	Supported components
VMware	HP P6000 EVA Disk Array Family ¹	Windows Server 2003 (32-bit)	Windows Server 2003 (32-bit) (Physical host only)	<ul style="list-style-type: none"> Filesystem & Raw Device/volume and Application integrations listed in the <i>HP Data Protector 8.00Zero Downtime Backup and Instant Recovery Support Matrix for HP P6000 EVA Disk Array Family Using SMI-S Agent</i>
		Windows Server 2003 (X64)	Windows Server 2003 (x64) (Physical host only)	
		Windows Server 2008 (32-bit)	Windows Server 2008 (32-bit) (Physical host only)	
		Windows Server 2008 (x64)	Windows Server 2008 (x64) (Physical host only)	
		Windows Server 2008 R2 (x64)	Windows Server 2008 R2 (x64) (Physical host only)	
		Windows Server 2012	Windows Server 2012 (Physical host only)	

		Red Hat Enterprise Linux 5.x, 6.0, 6.1, 6.2, 6.3 (64-bit)(x64)	Red Hat Enterprise Linux 5.x (64-bit)(x64) (Physical host only)	
		SUSE Linux Enterprise Server 10 (32-bit)	SUSE Linux Enterprise Server 10 (32-bit) (Physical host only)	
		SUSE Linux Enterprise Server 11 (64-bit)(x64)	SUSE Linux Enterprise Server 11 (64-bit)(x64) (Physical host only)	
VMware	HP P9000 XP Disk Array Family ¹	Windows Server 2003 (32-bit)	Windows Server 2003 (32-bit) (VM & Physical host)	<ul style="list-style-type: none"> Filesystem & Raw Device/volume Application integrations listed in the <i>HP Data Protector 8.00 Zero Downtime Backup and Instant Recovery Support Matrix for HP P9000 XP Disk Array Family</i>
		Windows Server 2003 (X64)	Windows Server 2003 (X64) (VM & Physical host)	
		Windows Server 2008 (32-bit)	Windows Server 2008 (32-bit) (Physical host only)	
		Windows Server 2008 (x64)	Windows Server 2008 (x64) (Physical host only)	
		Windows Server 2008 R2 (x64)	Windows Server 2008 R2 (x64) (Physical host only)	
		Windows Server 2012 (x64)	Windows Server 2012 (x64) (Physical host only)	
		Red Hat Enterprise Linux 5.x, 6.0, 6.1, 6.2, 6.3	Red Hat Enterprise Linux 5.x (VM & Physical host)	
HP Integrity Virtual Machines (IVM)	HP P9000 XP Disk Array Family	HP-UX (Itanium) 11.31	HP-UX (Itanium) 11.31	<ul style="list-style-type: none"> Filesystem & Raw Device/volume Application integrations listed in the <i>HP Data Protector 7.00 Zero Downtime Backup and Instant Recovery Support Matrix for HP P9000 XP Disk Array Family</i>

¹ Only the FC Protocol and the RDM configuration are supported.

Supported VSS configurations for virtual environments (inside virtual machines) ¹				
Virtualization application	Array type	HWP version	Application host operating system (guest OS)	Backup host operating system
VMware	HP P6000 EVA Disk Array Family ²	6.0x.xx	Windows 2008 R2 (x64)	Windows 2008 R2 (X64) (Physical host only)
		6.0.8	Windows 2012 (x64)	Windows 2012 (x64) (Physical host only)
VMware	HP P4000 SAN Solutions		Windows 2003 (32-bit)	Windows 2003 (32-bit)
			Windows 2003 (x64)	Windows 2003 (x64)
		9.0.x	Windows 2008 (32-bit)	Windows 2008 (32-bit)
		9.5	Windows 2008 (x64)	Windows 2008 (x64)
		10.0	Windows 2008 (x64)	Windows 2008 (x64)
			Windows 2008 R2 (x64)	Windows 2008 R2 (x64)
	10.0	Windows 2012 (x64)	Windows 2012 (x64)	

VMware	HP 3PAR Storage Systems ²	1.6.2	Windows 2008 R2 (x64)	Windows 2008 R2 (X64) (Physical host only)
		2.1.0		
		2.2.0	Windows 2012 (x64)	Windows 2012 (X64) (Physical host only)
VMware	HP P9000 XP Disk Array Family ²	5.02.00	5.03.00	Windows 2003 (32-bit) (Physical host only)
		5.02.00	5.03.00	Windows 2003 (x64) (Physical host only)
		6.02.00	6.03.00	Windows 2008 (32-bit) (Physical host only)
		6.02.00	6.03.00	Windows 2008 (x64) (Physical host only)
		7.02.00	7.03.00	Windows 2008 R2 (x64) (Physical host only)
		7.03.00	Windows 2012 (x64) (Physical host only)	
Microsoft Hyper-V	HP P6000 EVA Disk Array Family ³	6.0x.xx	Windows Server 2008 R2 (x64)	Windows Server 2008 R2 (x64) (Physical host only)
		6.0.8	Windows Server 2012 (x64)	Windows Server 2012 (x64) (Physical host only)
Microsoft Hyper-V	HP 3PAR ³ Storage Systems	2.1.0	Windows Server 2008 R2 (x64)	Windows Server 2008 R2 (x64) (Physical host only)
		2.2.0		
		2.2.0	Windows Server 2012 (x64)	Windows Server 2012 (x64) (Physical host only)
Microsoft Hyper-V	HP P4000 SAN Solutions		Windows Server 2003 (x64)	Windows Server 2003 (x64)
		9.0.x.x		
		9.5.x.x	Windows 2008 (x64)	Windows 2008 (x64)
		10.0.x.x	Windows Server 2008 R2 (x64)	Windows Server 2008 R2 (x64)
		10.0.x.x	Windows Server 2012 (x64)	Windows Server 2012 (x64)

¹ For details of supported configurations please see the *HP Data Protector 8.00 VSS Integration Support Matrix*

² Only the FC Protocol and the RDM configuration are supported.

³ Only the FC Protocol and the Hyper-V pass through configuration are supported.

Data Protector also supports virtualization application specific features that enable snapshots for instant recovery and disaster recovery purposes.

Virtualization application integration support

Virtualization application	Data Protector component	Supported application components
VMware	Virtual Environment Agent	<ul style="list-style-type: none"> VMware vCenter Server 4.0, 4.1, 5.0, 5.1 VMware ESX 4.0, 4.1 VMware ESXi 4.0, 4.1, 5.0, 5.1 VMware Virtual RDM 4.0, 4.1, 5.0, 5.1
Citrix XenServer	Scripts based on Disk Agent	<ul style="list-style-type: none"> Virtual Machine snapshots <ul style="list-style-type: none"> XenServer 5.0, 5.5, 5.6, 6.0
Microsoft Hyper-V / Hyper-V R2	MS Volume Shadow Copy Integration	<ul style="list-style-type: none"> VSS based snapshots of VMs
Microsoft Hyper-V / Hyper-V R2	Virtual Environment Agent	<ul style="list-style-type: none"> VSS based snapshots of VMs (cluster aware)
Microsoft Hyper-V Server 2012	Virtual Environment Agent	<ul style="list-style-type: none"> VSS based snapshots of VMs (cluster aware)
Red Hat	Virtual Environment Agent	<ul style="list-style-type: none"> RHEL KVM 5.5, 6.0, 6.2 RHEV 3.0