



# HP StoreVirtual Compatibility Matrix

for HP StoreVirtual VSA Software and HP StoreVirtual 4000 Storage

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# 1. Getting Started

## About this document

The HP StoreVirtual Compatibility Matrix outlines the host OS and iSCSI Initiator support for HP StoreVirtual. The most recent version of this document can be found at [hp.com/go/storevirtualcompatibility](http://hp.com/go/storevirtualcompatibility) and HP SPOCK.

For detailed component level compatibility information on HP P4000 G2 and HP StoreVirtual, please review the firmware compatibility matrices on HP SPOCK.

## New branding

HP StoreVirtual Storage is the new name for HP LeftHand Storage and HP P4000 SAN Solutions. LeftHand Operating System (LeftHand OS) is the new name for SAN/iQ.

## Active/Inactive LeftHand OS Versions

### Inactive versions

Customers with current support contracts will receive basic support, but support escalations and advanced troubleshooting will not occur for customers until they upgrade to an “Active” version of LeftHand OS.

### Active versions

Customers with current support contracts will receive full support, including escalations as needed.

More specific information related to the definition of Active / Inactive can be found at:

[Software Support Policy for HP StoreVirtual](#)

## iSCSI/Fibre Channel: Direct attach or direct connect

HP StoreVirtual does not support direct attach configurations for iSCSI or Fibre Channel connectivity.

## iSCSI: Network interfaces and host bus adapters

When using iSCSI to access volumes on HP StoreVirtual, a host utilizes an iSCSI initiator; typically that means either an iSCSI Software Initiator or an iSCSI host bus adapter. The HP StoreVirtual Compatibility Matrix lists the supported configurations of LeftHand OS version, host OS and iSCSI initiator:

- When using iSCSI Software Initiators, the combination of host OS and the iSCSI Software Initiator must be listed in this document. In this case, the network adapters used for iSCSI must be supported by the server and host OS but are not explicitly listed in this matrix.
- When using iSCSI host bus adapters, the combination of host OS and iSCSI host bus adapter must be listed in this document.

## 2. iSCSI Initiators

### 2.1 Microsoft

Windows Server 2012		LeftHand OS Version						
		8.1 (inactive) Apr 2009	8.5 (inactive) Mar 2010	9.0 (inactive) Nov 2010	9.5 (active) Sep 2011	10.0 (inactive) Nov 2012	10.5 (active) Feb 2013	11.0 (active) Sep 2013
Versions	Server – all editions				√	√	√	√
	Server Core				√	√	√	√
	Hyper-V Server				√	√	√	√
	Storage Server				√	√	√	√
Software Initiators	Microsoft iSCSI Initiator version 6.1				√	√	√	√
HBAs/ CNAs	QLogic QLE4060C/ QLE4062C iSCSI HBA				√	√	√	
	QLogic QLA4052C iSCSI HBA				√	√	√	
	HP NC553i/NC553m 10Gb 2-port FlexFabric CNA <sup>1</sup>				√	√	√	√
	HP FlexFabric 10Gb 2-port 554M Adapter (647590-B21) <sup>2</sup>							√
	HP FlexFabric 10Gb 2-port 554FLB Adapter (647586-B21) <sup>3</sup>							√
Storage Extensions	HP StoreVirtual VSS Provider <sup>4</sup>				√	√	√	√
	HP StoreVirtual DSM for MPIO <sup>5</sup>				√	√	√	√
	Microsoft DSM for MPIO <sup>6</sup>				√	√	√	√
Cluster software	Windows Failover Cluster				√	√	√	√
Certifications	Windows Server Catalog of Tested Products				√	√	√	√

1. Firmware 4.2.401.6; driver 2.74.009.001; boot from SAN supported.  
LOM used in BL460c G7 and BL490c G7 for boot from SAN
2. Firmware 4.1.459.16; boot from SAN supported;
3. Firmware 4.1.459.16; boot from SAN supported;
4. Requires Microsoft software initiator; iSCSI HBAs are not supported
5. Supports multiple network interfaces; iSCSI HBAs and Windows' built-in NIC Teaming (LBFO) are not supported
6. Supports multiple network interfaces; boot from SAN with supported HBA

Windows Server 2008 R2		LeftHand OS Version						
		8.1 (inactive) Apr 2009	8.5 (inactive) Mar 2010	9.0 (inactive) Nov 2010	9.5 (active) Sep 2011	10.0 (inactive) Nov 2012	10.5 (active) Feb 2013	11.0 (active) Sep 2013
Versions	Server – all editions	√	√	√	√	√	√	√
	Server Core	√	√	√	√	√	√	√
	Hyper-V Server	√	√	√	√	√	√	√
	Storage Server	√	√	√	√	√	√	√
Software Initiators	Microsoft iSCSI Initiator version 6.1	√	√	√	√	√	√	√
HBAs/ CNAs	QLogic QLE4060C/ QLE4062C iSCSI HBA	√	√	√	√	√	√	
	QLogic QMH4062 1GbE iSCSI Adapter for c-Class BladeSystem <sup>1</sup>	√	√	√	√	√	√	
	HP NC553i/ NC553m 10Gb 2-port FlexFabric CNA <sup>2</sup>			√	√	√	√	√
	HP NC373i/ NC373m Integrated Multifunction Gigabit Server Adapter <sup>3</sup>				√	√	√	
	HP FlexFabric 10Gb 2-port 554M Adapter (647590-B21) <sup>4</sup>				√	√	√	√
	HP FlexFabric 10Gb 2-port 554FLB Adapter (647586-B21) <sup>5</sup>				√	√	√	√

Storage Extensions	HP StoreVirtual VSS Provider <sup>6</sup>	√	√	√	√	√	√	√
	HP StoreVirtual DSM for MPIO <sup>7</sup>	√	√	√	√	√	√	√
	Microsoft DSM for MPIO <sup>8</sup>			√	√	√	√	√
	Symantec Backup Exec 12	√	√	√	√	√	√	
	Symantec Backup Exec 2010		√	√	√	√	√	
Cluster software	Microsoft Failover Clustering	√	√	√	√	√	√	√
Certifications	Windows Server Catalog of Tested Products	√	√	√	√	√	√	√
Service Packs	Service Pack 1	√	√	√	√	√	√	√

1. BIOS 1.14, iSCSI Firmware 3.0.1.49; boot from SAN supported per [QLogic configuration guide](#)
2. Firmware 4.0.360-15; boot code 2.0.8.768; driver 2.102.485.4; boot from SAN supported. LOM (iLO) used in BL460c G7 and BL490c G7 for boot from SAN
3. Boot from SAN not supported
4. Firmware 4.1.450.16; boot from SAN supported; supported on BL460c G8 on Win2K8R2 x64 SP1
5. Firmware 4.1.450.16; boot from SAN supported; supported on BL460c G8 on Win2K8R2 x64 SP1
6. Requires Microsoft iSCSI Initiator; iSCSI HBAs are not supported
7. Supports multiple network interfaces; iSCSI HBAs are not supported
8. Supports multiple network interfaces; boot from SAN with supported HBA

LeftHand OS Version

**Windows Server 2008**

		8.1 (inactive) Apr 2009	8.5 (inactive) Mar 2010	9.0 (inactive) Nov 2010	9.5 (active) Sep 2011	10.0 (inactive) Nov 2012	10.5 (active) Feb 2013	11.0 (active) Sep 2013
Versions	Server – all editions	√	√	√	√	√	√	√
	Server Core	√	√	√	√	√	√	√
	Hyper-V Server	√	√	√	√	√	√	√
	Storage Server	√	√	√	√	√	√	√
Software Initiators	Microsoft iSCSI Initiator version 6.0	√	√	√	√	√	√	√
HBAs/ CNAs	QLogic QLE4060C/ QLE4062C iSCSI HBA	√	√	√	√	√	√	
	QLogic QMH4062 1GbE iSCSI Adapter for c-Class BladeSystem <sup>1</sup>	√	√	√	√	√	√	
	HP NC553i/ NC553m 10Gb 2-port FlexFabric CNA <sup>2</sup>			√	√	√	√	√
	HP NC373i/ NC373m Integrated Multifunction Gigabit Server Adapter <sup>3</sup>				√	√	√	
	HP FlexFabric 10Gb 2-port 554M Adapter (647590-B21) <sup>4</sup>				√	√	√	√
	HP FlexFabric 10Gb 2-port 554FLB Adapter (647586-B21) <sup>5</sup>				√	√	√	√
Storage Extensions	HP StoreVirtual VSS Provider <sup>6</sup>	√	√	√	√	√	√	√
	HP StoreVirtual DSM for MPIO <sup>7</sup>	√	√	√	√	√	√	√
	Microsoft DSM for MPIO <sup>8</sup>			√	√	√	√	√
	Symantec Backup Exec 12	√	√	√	√			√
	Symantec Backup Exec 2010		√	√	√			√
Cluster software	Microsoft Failover Clustering	√	√	√	√	√	√	√
Certifications	Windows Server Catalog of Tested Products	√	√	√	√	√	√	√
Service Packs	Service Pack 1	√	√	√	√	√	√	
	Service Pack 2	√	√	√	√	√	√	√

1. BIOS 1.14, iSCSI Firmware 3.0.1.49; boot from SAN supported per [QLogic configuration guide](#)
2. Firmware 4.0.360-15; boot code 2.0.8.768; driver 2.102.485.4; boot from SAN supported. LOM (iLO) used in BL460c G7 and BL490c G7 for boot from SAN
3. Boot from SAN not supported

4. Firmware 4.1.450.16; boot from SAN supported; supported on BL460c G8 on Win2K8 x64 SP2 only
5. Firmware 4.1.450.16; boot from SAN supported; supported on BL460c G8 on Win2K8 x64 SP2 only
6. Requires Microsoft software initiator; iSCSI HBAs are not supported
7. Supports multiple network interfaces; iSCSI HBAs are not supported
8. Supports multiple network interfaces; boot from SAN with supported HBA

		LeftHand OS Version						
		8.1 (inactive) Apr 2009	8.5 (inactive) Mar 2010	9.0 (inactive) Nov 2010	9.5 (active) Sep 2011	10.0 (inactive) Nov 2012	10.5 (active) Feb 2013	11.0 (active) Sep 2013
<b>Windows Server 2003</b>	Standard Server/Web/Small Business/R2	√	√	√	√	√	√	
	Enterprise Server/R2	√	√	√	√	√	√	
	Datacenter	√	√	√	√			
Software Initiators	Microsoft iSCSI Initiator 2.06	√	√					
	Microsoft iSCSI Initiator 2.07	√	√	√				
	Microsoft iSCSI Initiator 2.08	√	√	√	√	√	√	
HBAs/ CNAs	Alacritech SEN2000 <sup>1</sup>	√	√		√	√	√	
	QLogic QLA4050C/QLA4052C <sup>2</sup>	√	√			√	√	
	QLogic QLE4060C/ QLE4062C iSCSI HBA	√	√	√	√	√	√	
	QLogic QMH4062 1GbE iSCSI Adapter for c-Class BladeSystem <sup>3</sup>	√	√	√	√			
	HP NC553i/NC553m 10Gb 2-port FlexFabric CNA <sup>4</sup>			√	√			
Storage Extensions	HP StoreVirtual VSS Provider <sup>5</sup>	√	√	√	√	√	√	
	HP StoreVirtual DSM for MPIO <sup>6</sup>	√	√	√	√	√	√	
	Symantec Backup Exec 11 <sup>7</sup>	√	√					
	Symantec Backup Exec 12	√	√	√	√			
	Symantec Backup Exec 2010		√	√	√			
Cluster software	Microsoft Clustering Services	√	√	√	√	√	√	
Certifications	Designed for Windows	√	√	√	√		√	
	Windows Server Catalog of Tested Products	√	√	√	√	√	√	
Service Packs	Service Pack 2	√	√	√	√	√	√	

1. Driver 9.0.0.129 & 7.3.0.1r3. Qualified with emBoot WinBoot/i 1.5
2. BIOS 1.04, iSCSI Firmware 2.0.0.7
3. BIOS 1.14, iSCSI Firmware 3.0.1.49; boot from SAN supported per [QLogic configuration guide](#)
4. Firmware 4.0.360-15; boot code 2.0.8.768; driver 2.102.485.4; boot from SAN supported. LOM (iLO) used in BL460c G7 and BL490c G7 for boot from SAN
5. Requires Microsoft software initiators; iSCSI HBAs are not supported
6. Supports multiple network interfaces; iSCSI HBAs are not supported
7. Requires Symantec Backup Exec 11d (11.1) for Windows Servers Hotfix 14 32bit or 64bit

## 2.2 VMware

		LeftHand OS Version						
		8.1 (inactive) Apr 2009	8.5 (inactive) Mar 2010	9.0 (inactive) Nov 2010	9.5 (active) Sep 2011	10.0 (inactive) Nov 2012	10.5 (active) Feb 2013	11.0 (active) Sep 2013
<b>VMware vSphere 5</b>								
Versions	vSphere 5.0 / 5.1 (incl. updates: 5.0 U2, U3, 5.1 U1)			√	√	√	√	√
Software Initiators	VMware Software iSCSI Initiator			√	√	√	√	√
Certifications	Storage/SAN Compatibility Guide for vSphere 5			√	√	√	√	√
	Storage Replication Adapter (SRA) for VMware Site Recovery Manager 5.0 (Update 1 and higher)				√	√	√	
HBAs	QLogic QLE4060C/ QLE4062C iSCSI HBA			√	√	√	√	
	QLogic QMH4062 1GbE iSCSI Adapter for c-Class BladeSystem <sup>1</sup>			√	√	√	√	
	HP NC373i/ NC373m Integrated Multifunction Gigabit Server Adapter <sup>2</sup>				√			
	HP FlexFabric 10Gb 2-port 554M Adapter (647590-B21) <sup>3</sup>				√	√	√	√
	HP FlexFabric 10Gb 2-port 554FLB Adapter (647586-B21) <sup>3</sup>				√	√	√	√

1. BIOS 1.14, iSCSI Firmware 3.0.1.49; boot from SAN support
2. Boot from SAN not supported
3. Firmware 4.1.450.16; boot from SAN supported; supported on BL460c G8 on ESXi 5.0 Build 469512 and ESXi 5.0 U1 Build 623860

		LeftHand OS Version						
		8.1 (inactive) Apr 2009	8.5 (inactive) Mar 2010	9.0 (inactive) Nov 2010	9.5 (active) Sep 2011	10.0 (inactive) Nov 2012	10.5 (active) Feb 2013	11.0 (active) Sep 2013
<b>VMware vSphere 4</b>								
Versions	VMware vSphere 4; ESX/ESXi Server 4.0/ 4.0 U1/ 4.0 U2	√	√	√				
	VMware vSphere 4; ESX/ESXi Server 4.0 U3/ 4.0 U4			√	√	√	√	
	VMware vSphere 4.1; ESX/ESXi Server 4.1/ 4.1 U1/ 4.1 U2/ 4.1 U3			√	√	√	√	√
Software Initiators	VMware Software iSCSI Initiator	√	√	√	√	√	√	√
Certifications	Storage/SAN Compatibility Guide ESX/ESXi 4.x	√	√	√	√	√	√	√
	Storage Replication Adapter (SRA) for vSphere 4			√	√			
HBAs	QLogic QLE4060C/ QLE4062C iSCSI HBA	√	√	√	√	√	√	
	QLogic QMH4062 1GbE iSCSI Adapter for c-Class BladeSystem <sup>1</sup>	√	√	√	√	√	√	
	HP NC373i/ NC373m Integrated Multifunction Gigabit Server Adapter <sup>2</sup>				√			
	HP FlexFabric 10Gb 2-port 554M Adapter (647590-B21) <sup>3</sup>				√			√

	HP FlexFabric 10Gb 2-port 554FLB Adapter (647586-B21) <sup>3</sup>				√			√
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1. BIOS 1.14; iSCSI Firmware 3.0.1.49; boot from SAN support
2. Boot from SAN not supported
3. Firmware 4.1.450.16; boot from SAN supported; supported on BL460c G8 on ESXi 4.1 U2 Build 502767

		<u>LeftHand OS Version</u>						
		8.1 (inactive) Apr 2009	8.5 (inactive) Mar 2010	9.0 (inactive) Nov 2010	9.5 (active) Sep 2011	10.0 (inactive) Nov 2012	10.5 (active) Feb 2013	11.0 (active) Sep 2013
<b>VMware ESX 3</b> Versions	VMware Infrastructure 3; ESX Server 3.0.2	√	√					
	VMware Infrastructure 3.5 ESX/ESXi Server 3.5 (U1/U2/U3/ U4/U5)	√	√					
Software Initiators	VMware iSCSI Initiator v. 3.4.2-27701	√	√					
	VMware iSCSI Initiator v. 3.5.0-110268	√	√					
Certifications	Storage/SAN Compatibility Guide ESX/ESXi 3.x	√	√					
	Storage Replication Adapter (SRA)	√	√					

## 2.3 Red Hat

		<u>LeftHand OS Version</u>						
		8.1 (inactive) Apr 2009	8.5 (inactive) Mar 2010	9.0 (inactive) Nov 2010	9.5 (active) Sep 2011	10.0 (inactive) Nov 2012	10.5 (active) Feb 2013	11.0 (active) Sep 2013
<b>Red Hat Enterprise Virtualization</b> Versions	Red Hat Enterprise Virtualization 3 <sup>1</sup>				√	√	√	√
Software Initiators	iSCSI-initiator-utils-6.2.0.872				√	√	√	√

1. RHEV 3.0 is supported on Red Hat Enterprise Virtualization Hypervisor 6

		<u>LeftHand OS Version</u>						
		8.1 (inactive) Apr 2009	8.5 (inactive) Mar 2010	9.0 (inactive) Nov 2010	9.5 (active) Sep 2011	10.0 (inactive) Nov 2012	10.5 (active) Feb 2013	11.0 (active) Sep 2013
<b>Red Hat Enterprise Linux 6</b> Versions	Red Hat Enterprise Linux 6.1			√	√	√	√	√
	Red Hat Enterprise Linux 6.2				√	√	√	√
	Red Hat Enterprise Linux 6.3				√	√	√	√
	Red Hat Enterprise Linux 6.4				√	√	√	√
Software Initiators	iSCSI-initiator-utils-6.2.0.872			√	√	√		
	iSCSI-initiator-utils-6.2.0.873						√	√
Services	GFS			√	√	√	√	√
	Device Mapping MPIO <sup>1</sup>			√	√	√	√	√
Cluster Management – High Availability	Red Hat Cluster Suite			√	√	√	√	√

1. Refer to [Red Hat DM Multipath](#) documentation for configuration details

LeftHand OS Version

**Red Hat Enterprise Linux 5**

		8.1 (inactive) Apr 2009	8.5 (inactive) Mar 2010	9.0 (inactive) Nov 2010	9.5 (active) Sep 2011	10.0 (inactive) Nov 2012	10.5 (active) Feb 2013	11.0 (active) Sep 2013
Versions	Red Hat Enterprise Linux 5.0	√	√					
	Red Hat Enterprise Linux 5.1	√	√					
	Red Hat Enterprise Linux 5.2	√	√					
	Red Hat Enterprise Linux 5.3	√	√					
	Red Hat Enterprise Linux 5.4	√	√	√	√			
	Red Hat Enterprise Linux 5.5		√	√	√	√	√	
	Red Hat Enterprise Linux 5.6		√	√	√	√	√	
	Red Hat Enterprise Linux 5.7				√	√	√	√
	Red Hat Enterprise Linux 5.8				√	√	√	√
Red Hat Enterprise Linux 5.9				√		√	√	
Software Initiators	iSCSI-initiator-utils-6.2.0.742	√	√					
	iSCSI-initiator-utils-6.2.0.865	√	√					
	iSCSI-initiator-utils-6.2.0.868	√	√	√	√	√	√	
	iSCSI-initiator-utils-6.2.0.871	√	√	√	√	√	√	√
HBAs	QLogic QLE4060C/ QLE4062C iSCSI HBA	√	√	√	√	√	√	
	QLogic QMH4062 1GbE iSCSI Adapter for c-Class BladeSystem <sup>1</sup>	√	√	√	√	√	√	
Services	GFS	√	√	√	√	√	√	√
	Device Mapping MPIO <sup>2</sup>		√	√	√	√	√	√
Cluster Management – High Availability	Red Hat Cluster Suite	√	√	√	√	√	√	√
	Veritas Storage foundation <sup>3</sup> 5.0/ 5.0MP1/ 5.0MP2/ 5.0MP3/ 5.0MP4				√			

1. BIOS 1.14, iSCSI Firmware 3.0.1.49; boot from SAN and multi-path IO supported with HBA port failure/restore
2. Refer to [Red Hat DM Multipath](#) documentation for configuration details
3. Veritas Storage Foundation 5.0 (including maintenance packs) is supported on RHEL5.4, 5.5 and 5.6 only

LeftHand OS Version

**Red Hat Enterprise Linux 4**

		8.1 (inactive) Apr 2009	8.5 (inactive) Mar 2010	9.0 (inactive) Nov 2010	9.5 (active) Sep 2011	10.0 (inactive) Nov 2012	10.5 (active) Feb 2013	11.0 (active) Sep 2013
Versions	Red Hat Enterprise Linux AS 4.6	√	√					
	Red Hat Enterprise Linux AS 4.7	√	√	√				
	Red Hat Enterprise Linux AS 4.8	√	√	√	√			
Software Initiators	iSCSI -initiator-utils-v4.0.3.0-7	√	√	√	√			

**2.4 Novell**

LeftHand OS Version

**NetWare**

		8.1 (inactive) Apr 2009	8.5 (inactive) Mar 2010	9.0 (inactive) Nov 2010	9.5 (active) Sep 2011	10.0 (inactive) Nov 2012	10.5 (active) Feb 2013	11.0 (active) Sep 2013
Versions	NetWare 6.5	√	√					
Software Initiators	NetWare iSCSI Initiator <sup>1</sup>	√	√					
Cluster software	Novell Cluster Services 1.8	√	√					
Certifications	Certified	√	√					
Service Packs	SP6, SP6a	√	√					
	SP7	√	√					
	SP8		√					

1. VIP load balancing not supported. Unselect "enable load balancing" when registering servers in the StoreVirtual CMC



LeftHand OS Version

**SUSE Linux**

		8.1 (inactive) Apr 2009	8.5 (inactive) Mar 2010	9.0 (inactive) Nov 2010	9.5 (active) Sep 2011	10.0 (inactive) Nov 2012	10.5 (active) Feb 2013	11.0 (active) Sep 2013
Versions	SUSE Linux Enterprise Server 9	✓	✓					
	SUSE Linux Enterprise Server 10/10 SP3/ 10.1/10.2	✓	✓	✓	✓			
	SUSE Linux Enterprise Server 11/11 SP1	✓	✓	✓	✓	✓	✓	✓
	SUSE Linux Enterprise Server 11 SP2				✓	✓	✓	✓
	x86/x64 Architecture	✓	✓	✓	✓			
Software Initiators	linux-iscsi v. 4.0.1-88 (SLES9)	✓	✓					
	open-iscsi-0.5.545 (SLES9)	✓	✓	✓	✓			
	open-iscsi-2.0.707-0.19 (SLES10)	✓	✓					
	open-iscsi-2.0.707-0.44 (SLES10)	✓	✓					
	open-iscsi-2.0.868.-0 (SLES10)	✓	✓	✓	✓			
	open-iscsi-2.0.870.-0 (SLES11)	✓	✓	✓	✓	✓	✓	
	open-iscsi-2.0.871.-0 (SLES11 SP1)			✓	✓	✓	✓	✓
HBAs/ CNAs	QLogic QLE4060C/ QLE4062C iSCSI HBA	✓	✓	✓	✓	✓	✓	
	QLogic QMH4062 1GbE iSCSI Adapter for c-Class BladeSystem <sup>1</sup>	✓	✓	✓	✓	✓	✓	
Cluster software	Novell Cluster Services 1.8	✓	✓	✓	✓			
Certifications	Certified	✓	✓	✓	✓			

1. BIOS 1.13, iSCSI Firmware 3.0.1.24

**2.5 Fedora**

LeftHand OS Version

**Fedora**

		8.1 (inactive) Apr 2009	8.5 (inactive) Mar 2010	9.0 (inactive) Nov 2010	9.5 (active) Sep 2011	10.0 (inactive) Nov 2012	10.5 (active) Feb 2013	11.0 (active) Sep 2013
Versions	Fedora 8	✓	✓					
	Fedora 9	✓	✓					
	Fedora 10	✓	✓					
	Fedora 11	✓	✓	✓				
	Fedora 12	✓	✓	✓	✓			
	Fedora 13			✓	✓			
Software Initiators	iscsi-initiator-utils-6.2.0.865-0.2.fc8	✓	✓					
	iscsi-initiator-utils-6.2.0.868-0.7.fc9	✓	✓	✓				
	iscsi-initiator-utils-6.2.0.870-0.1.fc10	✓	✓	✓				
	iscsi-initiator-utils-6.2.0.870-8.fc11	✓	✓	✓	✓			
	iscsi-initiator-utils-6.2.0.870-10.fc12	✓	✓	✓	✓			
	iscsi-initiator-utils-6.2.0.870-13.fc13			✓	✓			

## 2.6 Ubuntu

		LeftHand OS Version						
		8.1 (inactive) Apr 2009	8.5 (inactive) Mar 2010	9.0 (inactive) Nov 2010	9.5 (active) Sep 2011	10.0 (inactive) Nov 2012	10.5 (active) Feb 2013	11.0 (active) Sep 2013
Versions	Ubuntu Server Edition 9.04	√	√	√	√			
	Ubuntu Server Edition 10.04 LTS			√	√			√
	Ubuntu Server Edition 10.10				√	√	√	
	Ubuntu Server Edition 11.04				√	√	√	
	Ubuntu Server Edition 11.10					√	√	
	Ubuntu Server Edition 12.04 LTS					√	√	√
	Ubuntu Server Edition 12.10						√	√
Software Initiators	open-iscsi_2.0.870.1	√	√	√	√			
	open-iscsi_2.0.871				√	√	√	√

## 2.7 HP

		LeftHand OS Version						
		8.1 (inactive) Apr 2009	8.5 (inactive) Mar 2010	9.0 (inactive) Nov 2010	9.5 (active) Sep 2011	10.0 (inactive) Nov 2012	10.5 (active) Feb 2013	11.0 (active) Sep 2013
Versions	HP-UX 11i v1 (PA-RISC 11.11)	√	√					
	HP-UX 11i v2 (IA64/PA-RISC 11.23)	√	√	√	√			
	HP-UX 11i v3 (IA64/PA-RISC 11.31)	√	√	√	√	√	√	√
Software Initiators	iSCSI Initiator B.11.11.03a	√	√	√	√			
	iSCSI Initiator B.11.11.03f		√	√	√			
	iSCSI Initiator B.11.23.03a	√	√	√	√			
	iSCSI Initiator B.11.23.03f		√	√	√			
	iSCSI Initiator B.11.31.03b	√	√	√	√	√	√	√

## 2.8 IBM

		LeftHand OS Version						
		8.1 (inactive) Apr 2009	8.5 (inactive) Mar 2010	9.0 (inactive) Nov 2010	9.5 (active) Sep 2011	10.0 (inactive) Nov 2012	10.5 (active) Feb 2013	11.0 (active) Sep 2013
Versions	IBM AIX 5L Version 5.3 ML2	√	√					
	IBM AIX 6.1	√	√	√	√	√	√	
	IBM AIX 7.1						√	√
Software Initiators	AIX iSCSI Initiator <sup>1</sup>	√	√	√	√	√	√	√

1. VIP load balancing not supported. Unselect "enable load balancing" when registering servers in the StoreVirtual CMC

## 2.9 SUN

		LeftHand OS Version						
		8.1 (inactive) Apr 2009	8.5 (inactive) Mar 2010	9.0 (inactive) Nov 2010	9.5 (active) Sep 2011	10.0 (inactive) Nov 2012	10.5 (active) Feb 2013	11.0 (active) Sep 2013
Versions	Solaris 11 (x86)				√	√	√	√
	Solaris 11 (SPARC)					√	√	√
	Solaris 10 (SPARC)	√	√	√	√	√	√	√
	Solaris 10 (x86)	√	√	√	√	√	√	√
Software Initiators	iSCSI Initiator (i386) 11.10.0 rev 2005.01.04.14.30	√	√	√	√	√	√	√
	iSCSI Initiator 11.10.0 rev 2005.01.04.14.31	√	√	√	√			√

## 2.10 Citrix

		LeftHand OS Version						
		8.1 (inactive) Apr 2009	8.5 (inactive) Mar 2010	9.0 (inactive) Nov 2010	9.5 (active) Sep 2011	10.0 (inactive) Nov 2012	10.5 (active) Feb 2013	11.0 (active) Sep 2013
Versions	Citrix XenServer 5.0 <sup>1</sup>	√	√	√	√			
	Citrix XenServer 5.5 <sup>1</sup>	√	√	√	√			
	Citrix XenServer 5.6 <sup>1</sup> / 5.6 FP1 <sup>1</sup>		√	√	√		√	
	Citrix XenServer 5.6 SP2 <sup>1</sup>					√	√	
	Citrix XenServer 6.0 <sup>1</sup>				√	√	√	
	Citrix XenServer 6.0.2 <sup>1</sup>						√	√
	Citrix XenServer 6.1.x <sup>1</sup>						√	√
	Citrix XenServer 6.2.x <sup>1</sup>						√	√
Software Initiators	open-iscsi-2.0.865.13-361	√	√	√	√			
	open-iscsi-2.0.870				√		√	√
	open-iscsi-2.0.871				√	√	√	√
	open-iscsi-2.0.872				√	√	√	√
Certifications	Hardware Compatibility List Category 1	√	√	√	√	√	√	√

1. MPIO configuration not supported

## 2.11 Apple

		LeftHand OS Version						
		8.1 (inactive) Apr 2009	8.5 (inactive) Mar 2010	9.0 (inactive) Nov 2010	9.5 (active) Sep 2011	10.0 (inactive) Nov 2012	10.5 (active) Feb 2013	11.0 (active) Sep 2013
Versions	OS X Leopard 10.5.4	√	√					
	OS X Leopard 10.5.5	√	√					
	OS X Leopard 10.5.6	√	√	√	√			
	OS X Leopard 10.5.7	√	√	√	√			
	OS X Leopard 10.5.8				√	√	√	
Software Initiators	GlobalSAN iSCSI Initiator 3.3.0.43 <sup>1</sup>	√	√	√	√	√	√	

1. VIP load balancing not supported. Unselect "enable load balancing" when registering servers in the StoreVirtual CMC

## 2.12 Oracle

### Oracle Database 10g, 11g

Oracle specifies supported versions of Operating Systems with Oracle Application Software. Refer to the Oracle web site *My Oracle Support* at <http://support.oracle.com>. Specifics of OS and Oracle versions supported together are available under the Certifications tab. A Customer Support Identifier (CSI) number is required to access this information. For details please refer the note: [Third Party Application Interoperability Considerations with HP arrays](#)

		LeftHand OS Version						
		8.1 (inactive) Apr 2009	8.5 (inactive) Mar 2010	9.0 (inactive) Nov 2010	9.5 (active) Sep 2011	10.0 (inactive) Nov 2012	10.5 (active) Feb 2013	11.0 (active) Sep 2013
Versions	Oracle VM 2.2 <sup>1</sup>	√	√	√	√			

1. VIP load balancing not supported. Unselect "enable load balancing" when registering servers in the StoreVirtual CMC

### 3. Fibre Channel Initiators

#### 3.1 Microsoft

		LeftHand OS Version						
		8.1 (inactive) Apr 2009	8.5 (inactive) Mar 2010	9.0 (inactive) Nov 2010	9.5 (active) Sep 2011	10.0 (inactive) Nov 2012	10.5 (active) Feb 2013	11.0 (active) Sep 2013
<b>Windows Server 2012</b>								
Versions	Server – all editions					√	√	√
	Server Core					√	√	√
	Hyper-V Server					√	√	√
	Storage Server					√	√	√
HBAs/ CNAs	82E PCIe FC HBA (LPe12002 - 82e (AJ763A)) <sup>1</sup>					√	√	√
	82Q PCIe FC HBA (QLE2562 - 82q (AJ764A)) <sup>2</sup>					√	√	√
	HP FC2242SR 4Gb PCIe Dual Channel FC HBA (LPE11002 - FC2242SR (A8003A)) <sup>3</sup>					√	√	√
	HP FC1242SR 4Gb PCIe Dual Channel FC HBA (QLE2462 - FC1242SR (AE312A)) <sup>4</sup>					√	√	√
FC Switches	HP StorageWorks 8/24 SAN Switch (AM868A) <sup>5</sup>					√	√	√
	HP StorageWorks 4/16 SAN Switch (A7985A) <sup>6</sup>					√	√	√
	HP StorageWorks SAN Switch 4/32 Base (A7537A) <sup>7</sup>					√	√	√
	HP StorageWorks 8/20q Fibre Channel Switch (AK242A) <sup>8</sup>					√	√	√
Cluster software	Microsoft Failover Clustering					√	√	√
Certifications	Windows Server Catalog of Tested Products					√	√	√

1. Firmware 2.00a4; driver 2.74.009.001; boot from SAN supported
2. Firmware loaded by driver; driver 9.1.9.49; boot from SAN not supported
3. Firmware 2.82x4; driver 2.74.009.001; boot from SAN not supported
4. Firmware loaded by driver; driver 9.1.9.49; boot from SAN not supported
5. Firmware 7.0.2a
6. Firmware 6.2.2f
7. Firmware 6.4.3b
8. Firmware 8.0.14.03.00
9. Boot from SAN not supported

		LeftHand OS Version						
		8.1 (inactive) Apr 2009	8.5 (inactive) Mar 2010	9.0 (inactive) Nov 2010	9.5 (active) Sep 2011	10.0 (inactive) Nov 2012	10.5 (active) Feb 2013	11.0 (active) Sep 2013
<b>Windows Server 2008 R2</b>								
Versions	Server – all editions					√	√	√
	Server Core					√	√	√
	Hyper-V Server					√	√	√
	Storage Server					√	√	√
HBAs/ CNAs	82E PCIe FC HBA (LPe12002 - 82e (AJ763A)) <sup>1</sup>					√	√	√
	82Q PCIe FC HBA (QLE2562 - 82q (AJ764A)) <sup>2</sup>					√	√	√
	HP FC2242SR 4Gb PCIe Dual Channel FC HBA (LPE11002 - FC2242SR (A8003A)) <sup>3</sup>					√	√	√

	HP FC1242SR 4Gb PCIe Dual Channel FC HBA (QLE2462 - FC1242SR (AE312A)) <sup>4</sup>					√	√	√
FC Switches	HP StorageWorks 8/24 SAN Switch (AM868A) <sup>5</sup>					√	√	√
	HP StorageWorks 4/16 SAN Switch (A7985A) <sup>6</sup>					√	√	√
	HP StorageWorks SAN Switch 4/32 Base (A7537A) <sup>7</sup>					√	√	√
	HP StorageWorks 8/20q Fibre Channel Switch (AK242A) <sup>8</sup>					√	√	√
Cluster software	Microsoft Failover Clustering					√	√	√
Certifications	Windows Server Catalog of Tested Products					√	√	√
Service Packs	Service Pack 1					√	√	√

1. Firmware 2.00a4; driver 2.74.009.001; boot from SAN supported
2. Firmware loaded by driver; driver 9.1.9.49; boot from SAN not supported
3. Firmware 2.82x4; driver 2.74.009.001; boot from SAN not supported
4. Firmware loaded by driver; driver 9.1.9.49; boot from SAN not supported
5. Firmware 7.0.2a
6. Firmware 6.2.2f
7. Firmware 6.4.3b
8. Firmware 8.0.14.03.00
9. Boot from SAN not supported

LeftHand OS Version

**Windows Server 2008**

		8.1 (inactive) Apr 2009	8.5 (inactive) Mar 2010	9.0 (inactive) Nov 2010	9.5 (active) Sep 2011	10.0 (inactive) Nov 2012	10.5 (active) Feb 2013	11.0 (active) Sep 2013
Versions	Server – all editions					√	√	√
	Server Core					√	√	√
	Hyper-V Server					√	√	√
	Storage Server					√	√	√
HBAs/ CNAs	82E PCIe FC HBA (LPe12002 - 82e (AJ763A)) <sup>1</sup>					√	√	√
	82Q PCIe FC HBA (QLE2562 - 82q (AJ764A)) <sup>2</sup>					√	√	√
	HP FC2242SR 4Gb PCIe Dual Channel FC HBA (LPE11002 - FC2242SR (A8003A)) <sup>3</sup>					√	√	√
	HP FC1242SR 4Gb PCIe Dual Channel FC HBA (QLE2462 - FC1242SR (AE312A)) <sup>4</sup>					√	√	√
FC Switches	HP StorageWorks 8/24 SAN Switch (AM868A) <sup>5</sup>					√	√	√
	HP StorageWorks 4/16 SAN Switch (A7985A) <sup>6</sup>					√	√	√
	HP StorageWorks SAN Switch 4/32 Base (A7537A) <sup>7</sup>					√	√	√
	HP StorageWorks 8/20q Fibre Channel Switch (AK242A) <sup>8</sup>					√	√	√
Cluster software	Microsoft Failover Clustering					√	√	√
Certifications	Windows Server Catalog of Tested Products					√	√	√
Service Packs	Service Pack 1					√	√	
	Service Pack 2					√	√	√

1. Firmware 2.00a4; driver 2.74.009.001; boot from SAN supported
2. Firmware loaded by driver; driver 9.1.9.49; boot from SAN not supported

3. Firmware 2.82x4; driver 2.74.009.001; boot from SAN not supported
4. Firmware loaded by driver; driver 9.1.9.49; boot from SAN not supported
5. Firmware 7.0.2a
6. Firmware 6.2.2f
7. Firmware 6.4.3b
8. Firmware 8.0.14.03.00
9. Boot from SAN not supported

### 3.2 VMware

		<u>LeftHand OS Version</u>						
<b>VMware vSphere 5</b>		8.1 (inactive) Apr 2009	8.5 (inactive) Mar 2010	9.0 (inactive) Nov 2010	9.5 (active) Sep 2011	10.0 (inactive) Nov 2012	10.5 (active) Feb 2013	11.0 (active) Sep 2013
Versions	vSphere 5.0 / 5.1 (incl. updates: 5.0 U2, U3, 5.1 U1)					√	√	√
HBAs/ CNAs	82E PCIe FC HBA (LPe12002 - 82e (AJ763A)) <sup>1</sup>					√	√	√
	82Q PCIe FC HBA (QLE2562 - 82q (AJ764A)) <sup>2</sup>					√	√	√
	HP FC2242SR 4Gb PCIe Dual Channel FC HBA (LPE11002 - FC2242SR (A8003A)) <sup>3</sup>					√	√	√
	HP FC1242SR 4Gb PCIe Dual Channel FC HBA (QLE2462 - FC1242SR (AE312A) ) <sup>4</sup>					√	√	√
FC Switches	HP StorageWorks 8/24 SAN Switch (AM868A) <sup>5</sup>					√	√	√
	HP StorageWorks 4/16 SAN Switch (A7985A) <sup>6</sup>					√	√	√
	HP StorageWorks SAN Switch 4/32 Base (A7537A) <sup>7</sup>					√	√	√
	HP StorageWorks 8/20q Fibre Channel Switch (AK242A) <sup>8</sup>					√	√	√
Storage Extensions	VMware NMP for MPIIO					√	√	√

1. Firmware 2.00a4; driver 8.2.3.1-127vmw; boot from SAN supported
2. Firmware loaded by driver; driver 902.k1.1-9vmw; boot from SAN not supported
3. Firmware 2.82x4; driver 8.2.3.1-127vmw; boot from SAN not supported
4. Firmware loaded by driver; driver 902.k1.1-9vmw; boot from SAN not supported
5. Firmware 7.0.2a
6. Firmware 6.2.2f
7. Firmware 6.4.3b
8. Firmware 8.0.14.03.00
9. Boot from SAN not supported

		<u>LeftHand OS Version</u>						
<b>VMware vSphere 4</b>		8.1 (inactive) Apr 2009	8.5 (inactive) Mar 2010	9.0 (inactive) Nov 2010	9.5 (active) Sep 2011	10.0 (inactive) Nov 2012	10.5 (active) Feb 2013	11.0 (active) Sep 2013
Versions	VMware vSphere 4.1; ESX/ESXi Server 4.1 U2/ 4.1 U3					√	√	√
HBAs/ CNAs	82E PCIe FC HBA (LPe12002 - 82e (AJ763A)) <sup>1</sup>					√	√	√
	82Q PCIe FC HBA (QLE2562 - 82q (AJ764A)) <sup>2</sup>					√	√	√
	HP FC2242SR 4Gb PCIe Dual Channel FC HBA (LPE11002 - FC2242SR (A8003A)) <sup>3</sup>					√	√	√

	HP FC1242SR 4Gb PCIe Dual Channel FC HBA (QLE2462 - FC1242SR (AE312A)) <sup>4</sup>					√	√	√
FC Switches	HP StorageWorks 8/24 SAN Switch (AM868A) <sup>5</sup>					√	√	√
	HP StorageWorks 4/16 SAN Switch (A7985A) <sup>6</sup>					√	√	√
	HP StorageWorks SAN Switch 4/32 Base (A7537A) <sup>7</sup>					√	√	√
	HP StorageWorks 8/20q Fibre Channel Switch (AK242A) <sup>8</sup>					√	√	√
Storage Extensions	VMware NMP for MPIO					√	√	√

1. Firmware 2.00a4; driver 8.2.1.30.54vmw; boot from SAN supported
2. Firmware loaded by driver; driver 841.k1.28.1-1vmw; boot from SAN not supported
3. Firmware 2.82x4; driver 8.2.1.30.54vmw; boot from SAN not supported
4. Firmware loaded by driver; driver 841.k1.28.1-1vmw; boot from SAN not supported
5. Firmware 7.0.2a
6. Firmware 6.2.2f
7. Firmware 6.4.3b
8. Firmware 8.0.14.03.00
9. Boot from SAN not supported

### 3.3 Oracle

#### Oracle Database 11g

Oracle specifies supported versions of Operating Systems with Oracle Application Software. Refer to the Oracle web site *My Oracle Support* at <http://support.oracle.com> . Specifics of OS and Oracle versions supported together are available under the Certifications tab. A Customer Support Identifier (CSI) number is required to access this information. For details please refer the note: [Third Party Application Interoperability Considerations with HP arrays](#)

## 4. HP StoreVirtual Centralized Management Console

Supported Operating Systems		LeftHand OS Version						
		8.1 (inactive) Apr 2009	8.5 (inactive) Mar 2010	9.0 (inactive) Nov 2010	9.5 (active) Sep 2011	10.0 (inactive) Nov 2012	10.5 (active) Feb 2013	11.0 (active) Sep 2013
Microsoft <sup>1</sup>	Windows XP	√	√	√	√	√	√	
	Windows Vista	√	√	√	√	√	√	
	Windows 7	√	√	√	√	√	√	√
	Windows Server 2003	√	√	√	√	√	√	
	Windows Server 2008	√	√	√	√	√	√	√
	Windows Server 2008 R2	√	√	√	√	√	√	√
	Windows Server 2012				√	√	√	√
Novell	SUSE Linux Enterprise 10	√	√	√	√	√	√	
	SUSE Linux Enterprise 11	√	√	√	√	√	√	√
Red Hat	Red Hat Enterprise Linux 4	√	√	√	√			
	Red Hat Enterprise Linux 5/ 5.1/ 5.2/ 5.3/ 5.4	√	√	√	√			
	Red Hat Enterprise Linux 5.5	√	√	√	√	√	√	
	Red Hat Enterprise Linux 5.6			√	√	√	√	
	Red Hat Enterprise Linux 6.1			√	√	√	√	√
	Red Hat Enterprise Linux 6.2				√	√	√	√
	Red Hat Enterprise Linux 6.3				√	√	√	√
	Red Hat Enterprise Linux 6.4				√	√	√	√
Fedora	Fedora 8	√	√					
	Fedora 9	√	√					
	Fedora 10	√	√					
	Fedora 11	√	√	√	√			
	Fedora 12			√	√			
	Fedora 13			√	√			
HP	HP-UX 11i v1 (11.11)	√	√					
	HP-UX 11i v2 (11.23)	√	√	√	√			
	HP-UX 11i v3 (11.31)	√	√	√	√	√	√	

1. All Service Packs are supported for the Win OS versions, wherever applicable

## 5. HP StoreVirtual Failover Manager

Virtualization Platform Operating System		LeftHand OS Version						
		8.1 (inactive) Apr 2009	8.5 (inactive) Mar 2010	9.0 (inactive) Nov 2010	9.5 (active) Sep 2011	10.0 (inactive) Nov 2012	10.5 (active) Feb 2013	11.0 (active) Sep 2013
VMware Server 2.x	Windows Server 2003	√	√	√	√	√	√	
	Windows Server 2008	√	√	√	√	√	√	
VMware vSphere	VMware ESX/ESXi 4.0/ 4.0 U1/ 4.0 U2	√	√	√				
	VMware ESX/ESXi 4.0 U3/ 4.0 U4			√	√			
	vSphere 4.1 (all updates) <sup>1,2</sup>			√	√	√	√	√
	vSphere 5.0 (all updates) <sup>1</sup>			√	√	√	√	√
	vSphere 5.1 (all updates) <sup>1</sup>			√	√	√	√	√
Microsoft Hyper-V	Windows Server 2008		√	√	√		√	
	Windows Server 2008 R2		√	√	√	√	√	√
	Windows Server 2012					√	√	√

1. For versions that come as ESX or ESXi (vSphere Hypervisor), both editions are supported.
2. Failover Manager on vSphere 4.1 cannot be installed with the HP StoreVirtual VSA for vSphere Installer



## 6. HP StoreVirtual VSA (formerly LeftHand VSA)

Virtualizati on Platform	Operating System	LeftHand OS Version						
		8.1 (inactive) Apr 2009	8.5 (inactive) Mar 2010	9.0 (inactive) Nov 2010	9.5 (active) Sep 2011	10.0 (inactive) Nov 2012	10.5 (active) Feb 2013	11.0 (active) Sep 2013
VMware ESX/ESXi	VMware ESX/ESXi 4.0/ 4.0 U1/ 4.0 U2	√	√	√				
	VMware ESX/ESXi 4.0 U3/ 4.0 U4			√	√			
	vSphere 4.1 (all updates) <sup>1,2</sup>			√	√	√	√	√
	vSphere 5.0 (all updates) <sup>1</sup>			√	√	√	√	√
	vSphere 5.1 (all updates) <sup>1</sup>			√	√	√	√	√
Microsoft Hyper-V	Windows Server 2008		√	√	√			
	Windows Server 2008 R2		√	√	√	√	√	√
	Windows Server 2012					√	√	√

1. For versions that come as ESX or ESXi (vSphere Hypervisor), both editions are supported.
2. VSA on vSphere 4.1 cannot be installed with the HP StoreVirtual VSA for vSphere Installer.

**Note:** HP supports LeftHand VSA/StoreVirtual VSA on all block storage arrays which are on the vSphere and Windows Hardware Compatibility Lists.

## 7. Insight Control

### 7.1 Insight Remote Support

Insight Remote Support	LeftHand OS Version						
	8.1 (inactive) Apr 2009	8.5 (inactive) Mar 2010	9.0 (inactive) Nov 2010	9.5 (active) Sep 2011	10.0 (inactive) Nov 2012	10.5 (active) Feb 2013	11.0 (active) Sep 2013
HP Insight Remote Support Standard <sup>1</sup> A.05.60		√	√	√			
HP Insight Remote Support Standard <sup>1</sup> A.05.70		√	√	√	√		
HP Insight Remote Support Advanced <sup>2</sup> A.05.60		√	√	√			
HP Insight Remote Support Advanced <sup>2</sup> A.05.70		√	√	√	√		
HP Insight Remote Support Advanced <sup>2</sup> A.05.80		√	√	√	√	√	
HP Insight Remote Support 7.0.5		√	√	√	√	√	
HP Insight Remote Support 7.0.8		√	√	√	√	√	

1. Refer to the [HP Insight Remote Support Standard](#) for more details
2. Refer to the [HP Insight Remote Support Advanced](#) for more details

### 7.2 Systems Insight Manager

Systems Insight Manager	LeftHand OS Version						
	8.1 (inactive) Apr 2009	8.5 (inactive) Mar 2010	9.0 (inactive) Nov 2010	9.5 (active) Sep 2011	10.0 (inactive) Nov 2012	10.5 (active) Feb 2013	11.0 (active) Sep 2013
HP Systems Insight Manager 6.3		√	√	√			
HP Systems Insight Manager 7.0 <sup>1</sup>		√	√	√	√	√	
HP Systems Insight Manager 7.1/ 7.1.1/ 7.1.2 <sup>2</sup>		√	√	√	√	√	√
HP Systems Insight Manager 7.2/ 7.2.1				√	√	√	√

1. [HP SIM 7.0 HotFix Kit](#) needs to be applied to resolve LeftHand discovery issues
2. [HP SIM 7.1 HotFix Kit](#) needs to be applied to resolve LeftHand discovery issues

### 7.3 Insight Control for vCenter

Insight Control for vCenter	LeftHand OS Version						
	8.1 (inactive) Apr 2009	8.5 (inactive) Mar 2010	9.0 (inactive) Nov 2010	9.5 (active) Sep 2011	10.0 (inactive) Nov 2012	10.5 (active) Feb 2013	11.0 (active) Sep 2013
HP Insight Control for vCenter 7.0.x <sup>2</sup>		√	√	√	√	√	
HP Insight Control for vCenter 7.1.x <sup>2</sup>		√	√	√	√	√	
HP Insight Control for vCenter 7.2.x				√ <sup>2</sup>	√	√	

1. Refer to the [HP Insight Control](#) Support Matrix for more details

- 2. iSCSI transport only

## 8. HP CloudSystem Matrix and HP Matrix Operating Environment

iSCSI connectivity on HP StoreVirtual 4000 Storage and HP StoreVirtual VSA Software can be used in conjunction with Matrix Operating Environment as backing store for virtual machines.

For more information, please consult the [HP Insight Control and Matrix Operating Environment documentation](#).

## 9. HP Storage Management Pack for MS SCOM

### Management Pack for Microsoft System Center<sup>1</sup>

	<u>LeftHand OS Version</u>						
	8.1 (inactive) Apr 2009	8.5 (inactive) Mar 2010	9.0 (inactive) Nov 2010	9.5 (active) Sep 2011	10.0 (inactive) Nov 2012	10.5 (active) Feb 2013	11.0 (active) Sep 2013
HP Storage Management Pack for SCOM 2.1.2 <sup>2</sup>			√	√			
HP Storage Management Pack for SCOM 3.0				√	√		
HP Storage Management Pack for SCOM 3.0.1				√	√	√	

1. Refer to the [HP Storage Management Pack for Microsoft System Center](#) for more details
2. Refer to the [HP Storage Management Pack for Microsoft System Center 2.1.2](#) for more details

## 10. Supported Hardware Platforms

<b>Storage Systems</b>	<b>End of sale</b>	<b>End of service life</b>	<b>Inactive LeftHand OS Versions</b>	<b>Active LeftHand OS Versions</b>
LeftHand NSM260	January 2007	January 2012	7.0, 8.0, 8.1, 8.5	N/A
LeftHand NSM160	April 2007	April 2012	7.0, 8.0, 8.1, 8.5	N/A
HP DL380 G4	January 2008	January 2013	7.0, 8.0, 8.1, 8.5	N/A
LeftHand NSM2120	December 2008	December 2013	7.0, 8.0, 8.1, 8.5, 9.0	9.5
LeftHand NSM4150	December 2008	December 2013	7.0, 8.0, 8.1, 8.5, 9.0	N/A
LeftHand NSM2060	February 2009	February 2014	7.0, 8.0, 8.1, 8.5, 9.0	N/A
Dell PowerEdge 2950	April 2009	April 2014	7.0, 8.0, 8.1, 8.5, 9.0	N/A
HP DL320S	April 2009	April 2014	7.0, 8.0, 8.1, 8.5, 9.0	9.5
IBM System x3650	April 2009	April 2014	7.0, 8.0, 8.1, 8.5, 9.0	N/A
LeftHand NSM2060 G2	April 2009	April 2014	7.0, 8.0, 8.1, 8.5, 9.0	9.5
LeftHand NSM2120 G2	April 2009	April 2014	7.0, 8.0, 8.1, 8.5, 9.0	9.5
LeftHand VSA <sup>1</sup>	April 2009	April 2014	7.0, 8.0, 8.1, 8.5, 9.0, 10.0	9.5, 10.5, 11.0
HP P4300	March 2010	March 2015	8.1, 8.5, 9.0	9.5
HP P4500	March 2010	March 2015	8.1, 8.5, 9.0	9.5
HP P4000 VSA <sup>1</sup>			8.1, 8.5, 9.0, 10.0	9.5, 10.5, 11.0
HP P4300 G2	May 2013	April 2018	8.1, 8.5, 9.0, 10.0	9.5, 10.5, 11.0
HP P4500 G2	May 2013	April 2018	8.1, 8.5, 9.0, 10.0	9.5, 10.5, 11.0
HP P4800 G2	August 2013	May 2018	8.5, 9.0, 10.0	9.5, 10.5, 11.0
HP P4900 G2	November 2013	July 2018	10.0	9.5, 10.5, 11.0
HP StoreVirtual 4130			10.0	10.5, 11.0
HP StoreVirtual 4330			10.0	10.5, 11.0
HP StoreVirtual 4330 FC			10.0	10.5, 11.0
HP StoreVirtual 4530			N/A	10.5, 11.0
HP StoreVirtual 4630			N/A	10.5, 11.0
HP StoreVirtual 4730			N/A	10.5, 11.0
HP StoreVirtual 4730 FC			N/A	10.5, 11.0
HP StoreVirtual VSA <sup>1</sup>			10.0	10.5, 11.0
HP StoreVirtual VSA 2014 <sup>1</sup>			N/A	11.0

1. Refer to the [HP StoreVirtual VSA Quick Specs](#) for system requirements

<b>Unified Gateway</b>	<b>End of Sale</b>	<b>End of Service Life</b>	<b>Inactive Windows Storage Server Versions</b>	<b>Active Windows Storage Server Versions</b>
P4000 Unified NAS Gateway (1 & 2 node)	June 2011	March 2016	N/A	2008 2008 R2
P4000 G2 Unified NAS Gateway (1 & 2 node)	December 2012		N/A	2008 R2
HP StoreEasy 3830 Gateway			N/A	2012

## 11. Management Group Interoperability

Storage systems with a new version of LeftHand OS can join management groups running an earlier version. The table outlines the interoperability between LeftHand OS and management group versions. Running management groups and clusters with mixed versions of LeftHand OS is fully supported. The number of different versions in the management group should be kept to a minimum whenever possible.

HP recommends upgrading storage systems to the latest applicable version of LeftHand OS.

Management Group version	LeftHand OS Version						
	8.1 (inactive) Apr 2009	8.5 (inactive) Mar 2010	9.0 (inactive) Nov 2010	9.5 (active) Sep 2011	10.0 (inactive) Nov 2012	10.5 (active) Feb 2013	11.0 (active) Sep 2013
Management Group version 8.0	√	√	√	√			
Management Group version 8.5		√	√	√			
Management Group version 9.0			√	√	√	√	
Management Group version 9.5				√	√	√	√
Management Group version 10.0					√	√	√
Management Group version 10.5						√	√
Management Group version 11.0							√

**Example:** A storage system running LeftHand OS 10.5 can join management group versions 9.0, 9.5, 10.0 or 10.5.

Some features may not be available until all storage systems have been updated to the newer version of LeftHand OS. Once all storage systems are upgraded to a newer version of LeftHand OS, the management group version is typically updated automatically to that newer version. As a result, storage nodes with an earlier version of LeftHand OS will no longer be able to join the management group.

For more information on how to identify the software version running on storage systems and the management group, please consult the HP StoreVirtual user guide.

## 12. For more information

[hp.com/storage/spock](http://hp.com/storage/spock)

HP Storage Single Point of Connectivity Knowledge (SPOCK) is the primary portal used to obtain detailed information about supported products and configurations.

[hp.com/go/storevirtualcompatibility](http://hp.com/go/storevirtualcompatibility)

The newest version of the compatibility matrix for HP StoreVirtual.

### Sign up for updates

[hp.com/go/getupdated](http://hp.com/go/getupdated)

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