

# HP Storage Operations Manager

Software Version: 10.00

Windows® and Linux® operating systems

## Device Support Matrix

Document Release Date: March 2015  
Software Release Date: March 2015



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### Acknowledgements

This product includes software developed by the Apache Software Foundation.  
(<http://www.apache.org>)

This product includes software developed by the Indiana University Extreme! Lab.  
(<http://www.extreme.indiana.edu>)

This product uses the j-Interop library to interoperate with COM servers.  
(<http://www.j-interop.org>)

## Documentation Updates

The title page of this document contains the following identifying information:

- Software Version number, which indicates the software version.
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# STORAGE DEVICES

Legend: Y Supported  
N Not supported  
NA Not Applicable

VENDOR	STORAGE ARRAY/ SWITCH	SUBSYSTEM/ MODEL	DEVICE BUNDLE VERSION	PRE-REQUISITE SOFTWARE		FEATURES			
				DEVICE INTERFACE	VERSION	PERFORMANCE METRICS	VIRTUALIZATION (EXTERNAL STORAGE)	THIN PROVISIONING	REMOTE REPLICATION
HP	XP	24000, P9500	1.00	RMI-API	N/A	N	Y	Y	Y
		XP7	1.00	RMI-API	N/A	N	Y	Y	Y
	EVA	4000, 6000, 8000 4100, 6100, 8100 4400, 6400, 8400 P6300, P6500	1.00	CV EVA	10.2, 10.3	Y	NA	Y	Y
	3PAR StoreServ	F200/F400, T400/T800, V400/V800 StoreServ 10400/10800 StoreServ 7200/7400	1.00	SMI-S	3.1.2 MU2, 3.1.2(MU5), 3.1.3 MU1, 3.2.1 (MU1 ), 3.2.1(MU2)	Y	NA	Y	Y
EMC	Clariion	CX4	1.00	SMI-S	4.6.x	Y	NA	Y	Y
	VNX Block	VNX 5100, 5300, 5500, 5700, 7500	1.00	SMI-S	4.6.x	Y	NA	Y	Y
	VNX Filer	VNX 5300, 5500, 5700, 7500	1.00	DART	7.1.74-5, 7.1.76-4	N	NA	Y	Y
	Symmetrix DMX	DMX 3 DMX 4	1.00	SMI-S	4.6.x	Y	N	Y	Y
	Symmetrix VMAX	VMAX 10K	1.00	SMI-S	4.6.x	Y	N	Y	Y
	VPLEX	VS1, VS2	1.00	REST API	5.1.0.03.00.07, 5.1.0.04.00.04, 5.2.1.02.00.03, 5.3.0.02.00.05	N	Y	NA	Y
	Isilon	S-Series, X-Series, NL-Series	1.00	REST API	OneFS v7.0.2.1, v7.1.0.0, v7.1.0.3	N	NA	NA	Y
NetApp	ONTAP	7 Mode	1.00	ONTAPI	8.1.x, 8.2.x	N	NA	N	Y
Hitachi	HUS (Block)	130, 150, VM	1.00	HDvM	7.6	N	N	N	Y
	Hitachi Universal Storage Platform	USP	1.00	HDvM	7.6	N	Y	N	Y
Brocade	Switches	All models* supported by specified BNA versions  *ONLY FC based switches are supported *Brocade Access Gateway is not supported	1.00	BNA	12.0, 12.1.5, 12.3.x	Y	NA	NA	NA
CISCO	Switches	All models* supported by specified NX-OS Versions  *ONLY FC based switches are supported	1.00	SNMP v2, v3	NX-OS 5.0(1a), 5.0(4), 5.0(4b), 5.0(4d) 5.2(1), 5.2(2) NX-OS 6.2(1), 6.0, 6.1	Y	NA	NA	NA

# HOSTS, MULTIPATHING, VOLUME MANAGEMENT, HBA, CLUSTER

Legend: Y Supported  
N Not supported  
NA Not Applicable

VENDOR	OS	VERSIONS/ EDITION	ARCHITECTURE	SP	MULTI-PATH				VOLUME MANAGER				MULTIPATHING AND VOLUME MANAGER COMBINATIONS SUPPORTED	HBA		CLUSTER				
					NAME	VERSION	AGENT	AGENTLESS	NAME	VERSION	AGENT	AGENTLESS		VENDOR	MODELS	NAME	VERSION			
HP	HP-UX	11iv2	IA/PA	11.23	HP-UX PV Links	N/A	Y	N	LVM1	N/A	Y	N	<ul style="list-style-type: none"> <li>• PV Links with LVM1</li> <li>• Veritas DMP with VxVM</li> <li>• PowerPath with LVM1</li> </ul>	HP - Emulex	AH402A AH403A 456972-B21 AT094A AD299A AD355A AD221A AD222A 403621-B21 AD393A	MC Service Guard Cluster	11.19			
					PowerPath	5.2, 5.2 P04	Y	N			Y	N								
					Veritas DMP	5	Y	N	VxVM	5.00	Y	N								
		HP-UX PV Links		N/A	Y	N	LVM1	N/A	Y	N	<ul style="list-style-type: none"> <li>• HP-UX PV Links with LVM1 or LVM2</li> <li>• Veritas DMP with VxVM</li> <li>• HP-UX Native Multipath with LVM1 or LVM2</li> <li>• PowerPath with LVM1 or LVM2</li> </ul>	HP - Qlogic						403619-B21 AD300A 451871-B21 AH400A AH401A A9782A AB378B AB379A AB379B AD193A AD300A	MC Service Guard Cluster	11.19, 11.20
		HP-UX Native Multipath		N/A	Y	N			Y	N										
		PowerPath		5.2, 5.2 P04	Y	N	LVM2	N/A	Y	N										
			11iv3		11.31	Veritas DMP	5.1 SP1, 6.0.1, 6.0.3	Y	N	VxVM	5.1 SP1, 6.0.1, 6.0.3	Y	N							

# HOSTS, MULTIPATHING, VOLUME MANAGEMENT, HBA, CLUSTER

**Legend:** Y Supported  
N Not supported  
NA Not Applicable

VENDOR	OS	VERSIONS/EDITION	ARCHITECTURE	SP	MULTI-PATH				VOLUME MANAGER				MULTIPATHING AND VOLUME MANAGER COMBINATIONS SUPPORTED	HBA		CLUSTER		
					NAME	VERSION	AGENT	AGENTLESS	NAME	VERSION	AGENT	AGENTLESS		VENDOR	MODELS	NAME	VERSION	
Microsoft	2008	Standard, Datacenter, Enterprise	x86, x64, IA64	SP1, SP2	HDLM	7.6.0, 8.0.0	Y	N										
					PowerPath	5.7 SP1, SP4	Y	N										
	2008 R2	Standard, Datacenter, Enterprise	x64, IA64	SP1	Microsoft MPIO	N/A	Y	Y	LDM	N/A								
					HP MPIO	4.02.00, 4.01.00, 4.00.00	Y	Y										
					Veritas DMP	5.1, 6.0.2, 6.1	Y	Y										
	2012	Standard, Datacenter	x64		HDLM	7.6.0, 8.0	Y	N										
					HP MPIO	4.03, 4.04	Y	Y										
					Microsoft MPIO	N/A	Y	Y										
					Veritas DMP	5.1, 6.0.2, 6.1	Y	Y										
	2012 R2	Standard, Datacenter	x64		HDLM	7.6.0, 8.0	Y	N	VxVM	5.1, 6.0.2, 6.1								
					HP MPIO	4.04	Y	Y										
					Microsoft MPIO	N/A	Y	Y										
					Veritas DMP	5.1, 6.0.2, 6.1	Y	Y										

# HOSTS, MULTIPATHING, VOLUME MANAGEMENT, HBA, CLUSTER

**Legend:**

Y	Supported
N	Not supported
NA	Not Applicable

VENDOR	OS	VERSIONS/EDITION	ARCHITECTURE	SP	MULTI-PATH				VOLUME MANAGER				MULTIPATHING AND VOLUME MANAGER COMBINATIONS SUPPORTED	HBA		CLUSTER	
					NAME	VERSION	AGENT	AGENTLESS	NAME	VERSION	AGENT	AGENTLESS		VENDOR	MODELS	NAME	VERSION
RedHat software	RHEL	5.9, 5.10,	x86, x64, IA64	N/A	HDLM	7.6.1, 8.0.0	Y	N	LVM	N/A	Y	Y	<ul style="list-style-type: none"> <li>• HDLM with VxVM</li> <li>• PowerPath with VxVM</li> <li>• Veritas DMP with VxVM</li> <li>• HDLM with Native LVM</li> <li>• PowerPath with Native LVM</li> <li>• Device Mapper with Native LVM</li> </ul>	Emulex	LP 1150, LP11002, LP11000, LPe11000, LPe11002, LPe11004, LPe1150, LPe12000, LPe12002, LPe12004, LPe1250	No cluster support	
					PowerPath	5.6, 5.7 SP5	Y	N									
		Veritas DMP	5.1 SP1, 6.0, 6.0.4, 6.1		Y	Y	VxVM	5.1 SP1,6.0, 6.0.4, 6.1	Y	Y	Qlogic	QLA2460, QLA2462, QLE2560, QLE2562, QLE2564					
		Linux Device Mapper	N/A		Y	Y					Brocade	415, 425, 815, 825, 804					
SUSE	SLES	10	x86, x64, IA64	SP4	HDLM	7.6.1, 8.0.0	Y	N	LVM	N/A	Y	Y	<ul style="list-style-type: none"> <li>• HDLM with LVM</li> <li>• PowerPath with LVM</li> <li>• DeviceMapper with LVM</li> </ul>	Emulex	LP 1150, LP11002, LP11000, LPe11000, LPe11002, LPe11004, LPe1150, LPe12000, LPe12002, LPe12004, LPe1250	No cluster support	
					PowerPath	5.6, 5.7 SP1 P03	Y	N									
		Device Mapper	N/A		Y	Y					Brocade	415, 425, 815, 825, 804					
		11	x86, x64, IA64	SP1, SP2, SP3													

# HOSTS, MULTIPATHING, VOLUME MANAGEMENT, HBA, CLUSTER

**Legend:** Y Supported  
N Not supported  
NA Not Applicable

VENDOR	OS	VERSIONS/EDITION	ARCHITECTURE	SP	MULTI-PATH				VOLUME MANAGER				MULTIPATHING AND VOLUME MANAGER COMBINATIONS SUPPORTED	HBA		CLUSTER			
					NAME	VERSION	AGENT	AGENTLESS	NAME	VERSION	AGENT	AGENTLESS		VENDOR	MODELS	NAME	VERSION		
Oracle	Solaris	10	SPARC, x86	U8, U9	Sun StorEdge Traffic Manager (MPxIO)	N/A	N	Y	SVM	N/A	N	Y	<ul style="list-style-type: none"> <li>Sun Storage Traffic Manager (MPxIO) with SVM</li> </ul>	Emulex	LP 1150, LP11002, LP11000, LPe11000, LPe11002, LPe11004, LPe1150, LPe12000, LPe12002, LPe12004, LPe1250	No cluster support			
		11	SPARC, x86	Base	Sun StorEdge Traffic Manager (MPxIO)	N/A	N	Y						N	Y			QLogic	QLA2460, QLA2462, QLE2560, QLE2562, QLE2564
															Brocade			415, 425, 815, 825, 804	
IBM	AIX	6.1	32/64-bit	TL6, TL7	AIX MPIO	N/A	N	Y	LVM	N/A	N	Y	<ul style="list-style-type: none"> <li>AIX MPIO with LVM</li> </ul>	Emulex	LP 1150, LP11002, LP11000, LPe11000, LPe11002, LPe11004, LPe1150, LPe12000, LPe12002, LPe12004, LPe1250	No cluster support			
		7.1	32/64-bit		AIX MPIO	N/A	N	Y											



# VIRTUAL SERVERS AND HOSTS

**Legend:**

Y	Supported
N	Not supported
NA	Not Applicable

VENDOR	OS	VERSIONS	GUEST OS	PLATFORM	NOTES
VMWare	ESXi	5.0, 5.1, 5.5	Windows	2008 2008 R2 2008 R2 SP1 2012 2012 R2	<ul style="list-style-type: none"> <li>• Refer to the "Hosts-Multipath-VoIMgmt-HBA" section in this Device Support Matrix for specific OS versions and service pack/update information.</li> <li>• For host discovery, VM Tools must be running on the guest OS. If VM Tools is not running on the guest OS, all discovered virtual hosts are unmanaged in SOM.</li> <li>• Raw Device Mapping (RDM) of virtual disks is supported.</li> <li>• VMs with the same UUID are not supported.</li> <li>• Automatic cluster discovery of VMware DRS Clusters is supported with Virtual Center discovery only.</li> </ul>
			RHEL	5, 6	
			SUSE	10, 11	

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**Feedback on Device Support Matrix, March 2015 (Storage Operations Manager 10.00)**

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