



MSA 2040 SAS VMware vSphere 6.0 (ESXi 6.0) x64

Modified Date: Mon, 02 May 2016 00:00:00 GMT

PDF Generated Date: Wed, 04 May 2016 06:35:06 GMT

Overview

This document contains information regarding compatibility and interoperability for a "configuration set" of Storage Area Network (SAN) components. A configuration set is a collection of components that are compatible in a particular context. For example, configuration sets of type "array-os" contain components that are compatible from an array-os perspective. An example of an array-os config set is the "EVA4400 Microsoft Windows Server 2008 IA64" config set. It describes the components that are currently supported for the EVA4400 array in a Windows 2008 IA64 environment.

It is very important that you note the details of the components listed in these tables, as they describe the specific attributes of supported component versions. It is also very important to examine the notes in each section, because they may further limit or clarify supported configurations.

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General notes about this configuration set

For specific configuration guidelines and coexistence information, refer to the SAN Design Reference Guide at https://h20272.www2.hp.com/SPOCK/Pages/spock2Html.aspx?htmlFile=dg_san_design.html.

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Disk Array (1)				
Name	Vendor	Family	Controller	Firmware
HP MSA 2040 SAS Storage	HP	MSA	HP MSA 2040 SAS Storage Controller	GL210R004

Notes:

General Disk Array (1) Notes:

HP MSA 2040 SAS controller requires a mini-SAS HD connector for host connections. Validate your HBA or Switch connector to purchase the correct cable separately.

Operating System (3)					
Name	Vendor	OS Family	Architecture	OS Version	Service Pack
VMware vSphere 6.0 (ESXi 6.0)	VMware	VMware	x64	6.0	U1
VMware vSphere 6.0 (ESXi 6.0)	VMware	VMware	x64	6.0	
VMware vSphere 6.0 (ESXi 6.0)	VMware	VMware	x64	6.0	U2

Infrastructure Features (19)		
Name	Vendor	Features Version
Storage DRS (Storage Dynamic Resource Scheduling)	VMware	ESXi5
VASA (VMware API for Storage Awareness)	VMware	ESXi5
VMware Capacity Planner	VMware	
VMware Consolidated Backup	VMware	

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Name	Vendor	Features Version
VMware Data Recovery	VMware	
VMware Dynamic Resource Scheduling (DRS)	VMware	
VMware Fault Tolerance (FT)	VMware	
VMware High Availability (HA)	VMware	
VMware Storage VMotion	VMware	
VMware vCenter Lab Manager	VMware	
VMware vCenter Lifecycle Manager	VMware	
VMware vCenter Orchestrator	VMware	
VMware vCenter Server	VMware	
VMware vCenter Server Heartbeat	VMware	
VMware vCenter Stage Manager	VMware	
VMware vCenter Update Manager	VMware	
VMware View	VMware	
VMware VMotion	VMware	
vSphere Storage IO Control (SIOC)	VMware	ESX4.1, ESXi5

Server (4)		
Name	Vendor	Architecture
Link for ProLiant AMD Opteron servers	HP	ProLiant
ProLiant AMD64	HP	ProLiant
ProLiant EM64T	HP	ProLiant

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Name	Vendor	Architecture
ProLiant x86 Servers	HP	ProLiant

Host Bus Adapter (HBA) (5)											
Name	Vendor	Bus	HP Part Number	Speed	Firmware Version	BIOS	Vendor Part Number	Boot Image	Driver Version	Boot Support	Direct Connect Support
HP H221 Host Bus Adapter	HP	PCIe	650931-B21	6Gb	15.10.09.00				15.10.06.00	Y	Y
HP H221 PCIe 3.0 SAS Host Bus Adapter	HP	PCIe	729552-B21	6Gb	15.10.09.00				15.10.06.00	Y	Y
HP H241 Smart Host Bus Adapter	HP	PCIe	726911-B21	12Gb	4.02				6.0.0.118-1	Y	Y
HP Smart Array P441 – 4GB FBWC	HP	PCIe	726825-B21	12Gb	4.02				6.0.0.118-1	Y	Y
HP Smart Array P741m - 4GB FBWC	HP	PCIe	726782-B21	12Gb	4.02				6.0.0.118-1	Y	Y

Path Management (1)

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Name	Category	Software Version	Vendor	SATP Plugin	PSP Plugin
VMware Embedded Multi-path	Multipath	VMware Embedded Multi-path	VMware	VMW_SATP_ALUA	Recommended: VMW_PSP_RR (iops=Default);Supported: VMW_PSP_RR, VMW_PSP_MRU

Storage Management Software (7)		
Name	Vendor	Category
Command Line Interface (CLI/telnet)	HP	Device Management
ftp available for downloads	HP	Device Management
Selective Storage Mapping (HP SMU)	HP	LUN Security
Snapshot - licensable	HP	Data Replication
Target Based Management	HP	Array Features
Volume Clone - licensable	HP	Data Replication
Web Based Interface (HP SMU)	HP	Device Management

Guest OS (1)	
Name	Vendor
As specified in VMware Guest Operating System Installation Guide except as noted	All