



Storage / SAN Compatibility Guide For ESX Server 3.0.x

Last Updated: September 10, 2008

NOTE ESX Server 3.5 and ESX Server 3i information has been moved to the [Storage / SAN Compatibility Guide For ESX Server 3.5 and ESX Server 3i](#).

What's New

Changes since the last edition of this guide include:

- Added support for NetApp V3000 Series Data ONTAP 7.2.4. See ["NetApp,"](#) on page 40.
- Modified support information for FSC CX4-120, CX4-240, CX4-480 and CX4-960. See ["Fujitsu Siemens,"](#) on page 54.

Introduction

VMware ESX Server software has been tested and deployed in a variety of storage area network (SAN) environments. This guide describes the storage devices currently tested by VMware and its storage partners.

NOTE The use of an external enclosure, or JBOD connected to a supported SAS/SCSI controller in a supported server is supported, as long as there is no disk sharing among multiple servers or SAS/SCSI cards.

If you are having a technical issue with 3rd party HW/SW and it is not found on this list, please refer to our 3rd Party HW/SW support policy at <http://www.vmware.com/support/policies/ThirdParty.html>.

This document discusses the following topics:

- ["Maximum Storage Specifications Supported"](#) on page 2
- ["Third-Party Software"](#) on page 3
- ["Fibre Channel SANs"](#) on page 4
- ["Network Attached Storage"](#) on page 41

- [“iSCSI”](#) on page 44
- [“OEM SAN Array Model Reference”](#) on page 67

Maximum Storage Specifications Supported

The following system and virtual machine maximums are supported for ESX Server hosts:

Table 1. Supported system and virtual machine maximums

	ESX Server 3.x
Maximum LUNs per system	256 (128 during install)
Maximum HBAs per system	16 ports (4 quad-port cards, 8 dual-port cards, etc.)
Maximum virtual HBAs per virtual machine	4
Maximum targets per virtual HBA	15
Maximum virtual disks per Windows virtual machine	60
Maximum virtual disks per Linux virtual machine	60
Maximum number of VMFS file systems per server	256
Maximum disk space per VMFS	2TB * # of extents
Maximum file size per VMFS-3 file	Default max file size for VMFS-3 is 256GB (block size of 1MB). This can be configured to a block size of 8MB which will allow a 2TB file.
Maximum number of files per VMFS-3	Supports enough files to hold the maximum number of VMs per VMFS volume supported by ESX 3.0 (typically greater than 30,000 files)
Maximum number of paths per LUN	32
Maximum number of total paths	1024
Maximum number of targets per HBA	15
Minimum VMFS-3 volume size	1.1 GB

Third-Party Software

Third party backup, replication, and snapshot software is certified and supported by the providers of the software. The ESX Server 2.5 guide at http://www.vmware.com/pdf/esx25_san_cfg.pdf shows the list of software that was supported with ESX Server 2.5. Please contact your SAN vendors regarding their plans to support ESX Server 3.x. As vendors certify software, we will create a list of certified software for ESX Server 3.x.

Microsoft Cluster Service (MSCS) with ESX

Clustering refers to the use of Microsoft Cluster Services (Windows 2003 and 2000) in a shared disk configuration between two virtual machines or a virtual machine and a physical system.

Table 2. Microsoft Cluster Service (MSCS) with ESX

ESX Version	Windows OS	FC HBA Speed	Supported FC drivers
ESX Server 3.0	2000 SP4	2G	Default 2G
	2003 RTM	2G	
ESX Server 3.0.1	2000 SP4	2G	Rollback 2G
	2003 RTM	2G	Qlogic 7.04.00 Emulex 7.1.14
ESX Server 3.0.1 patches: ESX-2066306 ESX-3199476	2000 SP4	2G	Rollback 2G
	2003 RTM	2G	Qlogic 7.04.00 Emulex 7.1.14
	2003 SP1 ¹	2G	
	2003 R2 ¹	2G	
ESX Server 3.0.2	2000 SP4	2G&4G	Default unified 2G&4G
	2003 RTM	2G&4G	Qlogic: 7.07.04.2vmw Emulex: 7.3.2_vmw4
	2003 SP1 ¹	2G&4G	
	2003 R2 ¹	2G&4G	
	2003 SP2	2G&4G	
	2003 SP2 64bit ²	4G	Qlogic: 7.07.04.02.3vmw Emulex: 7.3.2_vmw4_1
ESX Server 3.0.3	2000 SP4	2G&4G	Default unified 2G&4G
	2003 RTM	2G&4G	Qlogic: 7.07.04.01.3vmw Emulex: 7.3.2_vmw10
	2003 SP1	2G&4G	
	2003 R2	2G&4G	
	2003 SP2	2G&4G	
	2003 SP2 64bit	4G	Qlogic: 7.07.04.01.3vmw Emulex: 7.3.2_vmw10

Table 2. Microsoft Cluster Service (MSCS) with ESX

ESX Version	Windows OS	FC HBA Speed	Supported FC drivers
¹ Requires Microsoft hotfix KB http://support.microsoft.com/kb/911030 .			
² Requires ESX Server 3.0.2 with Patch ESX-1003524 (build 81860 or later).			

Application-level clustering using MSCS on virtual machines is certified only with certain arrays listed in this guide. Before installing VMware ESX Server 3.0.x software with your storage array, please examine the lists on the following pages to find out whether your array and configuration are supported. Please refer to your storage vendor for more information.

Fibre Channel SANs

For Fibre Channel SANs, VMware tests the following configurations:

- **Basic Connectivity** — The ability of ESX Server 3.x hosts to recognize and interoperate with the storage array. This configuration does not allow for multipathing or any type of failover.
- **Multipathing** — The ability of ESX Server 3.x hosts to handle multiple paths to the same storage device.
- **HBA Failover** — In this configuration, the ESX Server 3.x host is equipped with multiple HBAs connecting to one or more SAN switches. The server is robust to HBA and switch failure only.
- **Storage Port Failover** — In this configuration, the ESX Server 3.x host is attached to multiple storage ports and is robust to storage port failures.
- **Clustering Support** — Clustering support applies to Windows 2000 SP4, Windows 2003 RTM, SP 1, R2 and SP 2. For ESX Server version requirements for these operating systems in cluster environment, please refer to <http://kb.vmware.com/kb/2021>. Clustering is supported only with a limited set of HBAs; please refer to the I/O Compatibility Guide (http://www.vmware.com/pdf/vi3_io_guide.pdf) for the list of HBAs not supported with MSCS.
- **Boot from SAN** — In this configuration, the ESX Server 3.x host boots from a LUN stored on the SAN rather than a local disk.
- **Direct Connect** — In this configuration, the ESX Server 3.x host is directly connected to the array (that is, no switch between HBA and the array). HBA and Storage Processor Failover is supported provided that there is no sharing of LUNs between multiple hosts. Clustering is not supported in this configuration.

In the following tables, an X in a table cell indicates the storage array or an equivalent configuration has been tested. All storage products listed in this compatibility guide are supported. For further details about array firmware, storage product configurations and best practices, please contact the storage vendor.

There are several items on the ESX Server 2.5.x SAN Compatibility Guide (http://www.vmware.com/pdf/esx_SAN_guide.pdf) that are not on this 3.x list. Please contact your storage vendors for plans regarding these items.

NOTE Unless otherwise footnoted, all fibre channel arrays are supported with both 2Gbit and 4Gbit connectivity.

VMware works closely with each of its OEMs to drive towards mutual support of ESX Server at the time of announcement. Due to different product release cycles, levels of testing, and OEM agreements, not all OEM devices will be supported at the general availability date of a new version of ESX Server. We recommend contacting the OEM vendor for the best information on when their device is planned to be certified with Virtual Infrastructure 3.

VMware supports Storage Virtualization Devices (SVD) with ESX Server 3.0.2 or later. See [“Storage Virtualization Device \(SVD\)”](#) on page 36 for more information.

This section contains information on storage arrays from the following vendors:

- [“3PAR”](#) on page 6
- [“Bull”](#) on page 7
- [“Compellent”](#) on page 7
- [“Dell”](#) on page 8
- [“Dot Hill Systems,”](#) on page 10
- [“EMC”](#) on page 11
- [“FalconStor,”](#) on page 13
- [“Fujitsu”](#) on page 13
- [“Fujitsu Siemens”](#) on page 16
- [“Hewlett Packard”](#) on page 18
- [“Hitachi, Ltd.”](#) on page 20
- [“Hitachi Data Systems \(HDS\)”](#) on page 22
- [“IBM”](#) on page 23
- [“Infortrend Technology Inc.”](#) on page 25
- [“NEC”](#) on page 27
- [“NetApp”](#) on page 28
- [“Newtech,”](#) on page 28
- [“Nihon Unisys Ltd,”](#) on page 29
- [“Overland Storage,”](#) on page 30
- [“Pillar Data Systems”](#) on page 30
- [“SGI,”](#) on page 31
- [“Stratus,”](#) on page 32
- [“Sun”](#) on page 33
- [“Transtec”](#) on page 34

- “Xiotech” on page 35
- “Xyratex” on page 35

Table 3. 3PAR

	ESX Server 3.0					ESX Server 3.0.1					ESX Server 3.0.2					ESX Server 3.0.3					
	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN	
E200	X	X	X	X ²	X	X	X	X	X	X ²	X	X	X	X	X ^{1, 2}	X	X	X	X	X ²	X
S400	X	X	X	X ²	X	X	X	X	X	X ²	X	X	X	X	X ^{1, 2}	X	X	X	X	X ²	X
S800	X	X	X	X ²	X	X	X	X	X	X ²	X	X	X	X	X ^{1, 2}	X	X	X	X	X ²	X
See NOTE on page 1 for JBOD support information.																					
¹ MSCS supported with 2Gb HBAs using Qlogic 7.04.00 and Emulex 7.1.14 drivers only. Please refer to http://kb.vmware.com/kb/1560391 .																					
² Supported with 2G Qlogic HBAs only.																					

Table 4. Bull

		ESX Server 3.0					ESX Server 3.0.1					ESX Server 3.0.2					ESX Server 3.0.3					
		Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN	
StoreWay	FDA1500	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	FDA2500	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	FDA2800	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	FDA2900	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Optima 1200						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Optima 5000						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

See [NOTE](#) on page 1 for JBOD support information.

¹ MSCS supported with 2Gb HBAs using Qlogic 7.04.00 and Emulex 7.1.14 drivers only. Please refer to <http://kb.vmware.com/kb/1560391>.

Table 5. Compellent

		ESX Server 3.0					ESX Server 3.0.1					ESX Server 3.0.2					ESX Server 3.0.3					
		Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN	
Storage Center		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

See [NOTE](#) on page 1 for JBOD support information.

Table 5. Compellent

	ESX Server 3.0	ESX Server 3.0.1	ESX Server 3.0.2	ESX Server 3.0.3
	Basic connectivity Multipathing with HBA failover Multipathing with storage port failover Microsoft Clustering support ¹ Boot from SAN	Basic connectivity Multipathing with HBA failover Multipathing with storage port failover Microsoft Clustering support ¹ Boot from SAN	Basic connectivity Multipathing with HBA failover Multipathing with storage port failover Microsoft Clustering support Boot from SAN	Basic connectivity Multipathing with HBA failover Multipathing with storage port failover Microsoft Clustering support Boot from SAN
¹ MSCS supported with 2Gb HBAs using Qlogic 7.04.00 and Emulex 7.1.14 drivers only. Please refer to http://kb.vmware.com/kb/1560391 .				
² Supported with Qlogic HBAs only.				

Table 6. Dell

		ESX Server 3.0	ESX Server 3.0.1	ESX Server 3.0.2	ESX Server 3.0.3
		Basic connectivity Multipathing with HBA failover Multipathing with storage port failover Microsoft Clustering support ¹ Boot from SAN	Basic connectivity Multipathing with HBA failover Multipathing with storage port failover Microsoft Clustering support ¹ Boot from SAN	Basic connectivity Multipathing with HBA failover Multipathing with storage port failover Microsoft Clustering support Boot from SAN	Basic connectivity Multipathing with HBA failover Multipathing with storage port failover Microsoft Clustering support Boot from SAN
AX	AX100 ²	X X X	X X X	X X X	X X X
	AX150 ²	X X X	X X X	X X X	X X X

Table 6. Dell (Continued)

		ESX Server 3.0					ESX Server 3.0.1					ESX Server 3.0.2					ESX Server 3.0.3				
		Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN
Dell CLARiiON	CX200	X	X	X	X	X	X	X	X	X	X	X	X	X	X ^{3,4}	X	X	X	X	X ^{3,4}	X
	CX300	X	X	X	X	X	X	X	X	X	X	X	X	X	X ^{3,4}	X	X	X	X	X ^{3,4}	X
	CX400	X	X	X	X	X	X	X	X	X	X	X	X	X	X ^{3,4}	X	X	X	X	X ^{3,4}	X
	CX500	X	X	X	X	X	X	X	X	X	X	X	X	X	X ^{3,4}	X	X	X	X	X ^{3,4}	X
	CX600	X	X	X	X	X	X	X	X	X	X	X	X	X	X ^{3,4}	X	X	X	X	X ^{3,4}	X
	CX700	X	X	X	X	X	X	X	X	X	X	X	X	X	X ^{3,4}	X	X	X	X	X ^{3,4}	X
	CX3-10c	X	X	X	X	X	X	X	X	X	X	X	X	X	X ^{3,4}	X	X	X	X	X ^{3,4}	X
	CX3-20	X	X	X	X	X	X	X	X	X	X	X	X	X	X ^{3,4}	X	X	X	X	X ^{3,4}	X
	CX3-20c	X	X	X	X	X	X	X	X	X	X	X	X	X	X ^{3,4}	X	X	X	X	X ^{3,4}	X
	CX3-20f	X	X	X	X	X	X	X	X	X	X	X	X	X	X ^{3,4}	X	X	X	X	X ^{3,4}	X
	CX3-40	X	X	X	X	X	X	X	X	X	X	X	X	X	X ^{3,4}	X	X	X	X	X ^{3,4}	X
	CX3-40c	X	X	X	X	X	X	X	X	X	X	X	X	X	X ^{3,4}	X	X	X	X	X ^{3,4}	X
	CX3-40f	X	X	X	X	X	X	X	X	X	X	X	X	X	X ^{3,4}	X	X	X	X	X ^{3,4}	X
CX3-80	X	X	X	X	X	X	X	X	X	X	X	X	X	X ^{3,4}	X	X	X	X	X ^{3,4}	X	

See **NOTE** on page 1 for JBOD support information.

¹ MSCS supported with 2Gb HBAs using Qlogic 7.04.00 and Emulex 7.1.14 drivers only. Please refer to <http://kb.vmware.com/kb/1560391>.

² DirectConnect and multipathing with HBA failover is supported.

³ MSCS supported with both 2Gb and 4Gb Fibre Channel HBAs on ESX Server 3.0.2 or later. Please refer to: <http://kb.vmware.com/kb/1002304>

⁴ Supported with Windows Server 2003 SP1 Enterprise Edition, Windows Server 2003 SP2 Enterprise Edition and Windows Server 2003 R2 Enterprise Edition. Supported with Windows 2000 SP4 and Windows 2003 RTM for 2G HBAs only.

Table 7. Dot Hill Systems

	ESX Server 3.0					ESX Server 3.0.1					ESX Server 3.0.2					ESX Server 3.0.3				
	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN
R/Evolution 2730	X	X	X		X	X	X		X	X	X	X	X		X	X	X			
R/Evolution 2730T	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
See NOTE on page 1 for JBOD support information.																				

Table 8. EMC

		ESX Server 3.0				ESX Server 3.0.1				ESX Server 3.0.2				ESX Server 3.0.3				
		Basic connectivity Multipathing with HBA failover		Multipathing with storage port failover	Microsoft Clustering support ¹ Boot from SAN	Basic connectivity Multipathing with HBA failover		Multipathing with storage port failover	Microsoft Clustering support ¹ Boot from SAN	Basic connectivity Multipathing with HBA failover		Multipathing with storage port failover	Microsoft Clustering support Boot from SAN	Basic connectivity Multipathing with HBA failover		Multipathing with storage port failover	Microsoft Clustering support Boot from SAN	
AX	AX100 ³	X	X	X		X	X	X		X	X	X		X	X	X		
	AX150 ³	X	X	X		X	X	X		X	X	X	X ^{2, 7, 8}	X	X	X	X ^{2, 7, 8}	
	AX4-5					X	X	X		X	X	X	X	X	X	X	X	
EMC CLARiON	CX200	X	X	X	X	X	X	X	X	X	X	X	X ^{2, 4}	X	X	X	X ^{2, 4}	X
	CX300	X	X	X	X	X	X	X	X	X	X	X	X ^{2, 4}	X	X	X	X ^{2, 4}	X
	CX400	X	X	X	X	X	X	X	X	X	X	X	X ^{2, 4}	X	X	X	X ^{2, 4}	X
	CX500	X	X	X	X	X	X	X	X	X	X	X	X ^{2, 4}	X	X	X	X ^{2, 4}	X
	CX600	X	X	X	X	X	X	X	X	X	X	X	X ^{2, 4}	X	X	X	X ^{2, 4}	X
	CX700	X	X	X	X	X	X	X	X	X	X	X	X ^{2, 4}	X	X	X	X ^{2, 4}	X
	CX3-10c	X	X	X	X	X	X	X	X	X	X	X	X ^{2, 4}	X	X	X	X ^{2, 4}	X
	CX3-20	X	X	X	X	X	X	X	X	X	X	X	X ^{2, 4}	X	X	X	X ^{2, 4}	X
	CX3-20c	X	X	X	X	X	X	X	X	X	X	X	X ^{2, 4}	X	X	X	X ^{2, 4}	X
	CX3-20f	X	X	X	X	X	X	X	X	X	X	X	X ^{2, 4}	X	X	X	X ^{2, 4}	X
	CX3-40	X	X	X	X	X	X	X	X	X	X	X	X ^{2, 4}	X	X	X	X ^{2, 4}	X
	CX3-40c	X	X	X	X	X	X	X	X	X	X	X	X ^{2, 4}	X	X	X	X ^{2, 4}	X
	CX3-40f	X	X	X	X	X	X	X	X	X	X	X	X ^{2, 4}	X	X	X	X ^{2, 4}	X
	CX3-80	X	X	X	X	X	X	X	X	X	X	X	X ^{2, 4}	X	X	X	X ^{2, 4}	X
	CX4-120						X	X	X		X	X	X	X	X	X	X	X
	CX4-240						X	X	X		X	X	X	X	X	X	X	X
CX4-480						X	X	X		X	X	X	X	X	X	X	X	
CX4-960						X	X	X		X	X	X	X	X	X	X	X	

Table 8. EMC (Continued)

		ESX Server 3.0					ESX Server 3.0.1					ESX Server 3.0.2					ESX Server 3.0.3				
		Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN
Celerra	NS20FC, DART version 5.5 ^{5, 6}	X	X	X	X	X	X	X	X	X	X	X	X	X ¹	X	X	X	X	X	X	X
	NS40FC, DART version 5.5 ^{5, 6}	X	X	X	X	X	X	X	X	X	X	X	X	X ¹	X	X	X	X	X	X	X
EMC Symmetrix	8000 Series	X	X	X	X	X	X	X	X	X	X	X	X	X ¹	X	X	X	X	X	X	X
	DMX/DMX2	X	X	X	X	X	X	X	X	X	X	X	X	X ^{2, 4}	X	X	X	X	X ^{2, 4}	X	X
	DMX-3	X	X	X	X	X	X	X	X	X	X	X	X	X ^{2, 4}	X	X	X	X	X ^{2, 4}	X	X
	DMX-4				X ⁷	X	X	X	X ⁷	X	X	X	X	X ⁷	X	X	X	X	X ⁷	X	X
NX4 ^{6, 9}						X	X	X		X	X	X	X		X						
See NOTE on page 1 for JBOD support information.																					
¹ MSCS supported with 2Gb HBAs using Qlogic 7.04.00 and Emulex 7.1.14 drivers only. Please refer to http://kb.vmware.com/kb/1560391 .																					
² MSCS supported with both 2Gb and 4Gb Fibre Channel HBAs on ESX Server ESX 3.0.2 or later. Please refer to http://kb.vmware.com/kb/1002304 .																					
³ Direct Connect and multipathing with HBA failover is supported.																					
⁴ Supported with Windows Server 2003 SP1 Enterprise Edition, Windows Server 2003 SP2 Enterprise Edition and Windows Server 2003 R2 Enterprise Edition. Supported with Windows 2000 SP4 and Windows 2003 RTM for 2G HBAs only.																					
⁵ Supported only for the open Fibre Channel ports on the arrays that are captive to NS20FC and NS40FC.																					
⁶ LUNs are not shared between Fibre Channel and iSCSI hosts.																					
⁷ The storage vendor is responsible for first level support.																					
⁸ Supported with Windows 2000 SP4, Windows 2003 SP1, SP2 and R1.																					
⁹ Support is only for the open FC ports on the arrays that are captive to NX4.																					

Table 9. FalconStor

		ESX Server 3.0			ESX Server 3.0.1			ESX Server 3.0.2			ESX Server 3.0.3					
		Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN
NSS-210 ^{1, 2}					X	X	X	X	X	X	X	X	X			X
NSS-S12		X	X	X	X	X	X	X	X	X	X	X	X	X		X
See NOTE on page 1 for JBOD support information.																
¹ SP failover is not supported. Only SP port failover is supported.																
² Supported with 4Gb HBAs.																

Table 10. Fujitsu

		ESX Server 3.0			ESX Server 3.0.1			ESX Server 3.0.2			ESX Server 3.0.3						
		Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN	
ETERNUS 2000	Model 50				X	X	X	X	X	X	X ^{2, 3}	X	X	X	X	X ^{2, 3}	X
	Model 100				X	X	X	X	X	X	X ^{2, 3}	X	X	X	X	X ^{2, 3}	X
	Model 200				X	X	X	X	X	X	X ^{2, 3}	X	X	X	X	X ^{2, 3}	X
ETERNUS 3000 ⁴		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Table 10. Fujitsu

		ESX Server 3.0				ESX Server 3.0.1				ESX Server 3.0.2				ESX Server 3.0.3							
		Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN
ETERNUS 4000	Model 80 ⁴ and 100 ⁴	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Model 300 and 500	X	X	X	X	X	X	X	X	X ³	X	X	X	X	X ^{2,3}	X	X	X	X	X ^{2,3}	X
ETERNUS 6000	Model 400	X	X	X	X	X	X	X	X ³	X	X	X	X	X ^{2,3}	X	X	X	X	X ^{2,3}	X	
	Model 500	X	X	X	X	X	X	X	X ³	X	X	X	X	X ^{2,3}	X	X	X	X	X ^{2,3}	X	
	Model 600	X	X	X	X	X	X	X	X ³	X	X	X	X	X ^{2,3}	X	X	X	X	X ^{2,3}	X	
	Model 700	X	X	X	X	X	X	X	X ³	X	X	X	X	X ^{2,3}	X	X	X	X	X ^{2,3}	X	
	Model 800	X	X	X	X	X	X	X	X ³	X	X	X	X	X ^{2,3}	X	X	X	X	X ^{2,3}	X	
	Model 900	X	X	X	X	X	X	X	X ³	X	X	X	X	X ^{2,3}	X	X	X	X	X ^{2,3}	X	
	Model 1000	X	X	X	X	X	X	X	X ³	X	X	X	X	X ^{2,3}	X	X	X	X	X ^{2,3}	X	
	Model 1100	X	X	X	X	X	X	X	X ³	X	X	X	X	X ^{2,3}	X	X	X	X	X ^{2,3}	X	
ETERNUS 8000	Model 700	X	X	X	X	X	X	X	X ³	X	X	X	X	X ^{2,3}	X	X	X	X	X ^{2,3}	X	
	Model 900	X	X	X	X	X	X	X	X ³	X	X	X	X	X ^{2,3}	X	X	X	X	X ^{2,3}	X	
	Model 1100	X	X	X	X	X	X	X	X ³	X	X	X	X	X ^{2,3}	X	X	X	X	X ^{2,3}	X	
	Model 2100	X	X	X	X	X	X	X	X ³	X	X	X	X	X ^{2,3}	X	X	X	X	X ^{2,3}	X	
See NOTE on page 1 for JBOD support information.																					
¹ MSCS supported with 2Gb HBAs using Qlogic 7.04.00 and Emulex 7.1.14 drivers only. Please refer to http://kb.vmware.com/kb/1560391 .																					
² MSCS supported with both 2Gb and 4Gb Fibre Channel HBAs on ESX Server ESX 3.0.2 or later. Please refer to http://kb.vmware.com/kb/1002304 .																					
³ (N+1) configuration is not supported.																					
⁴ Contact your Fujitsu representative for the required setting to enable support																					

Table 11. Fujitsu Siemens

		ESX Server 3.0				ESX Server 3.0.1				ESX Server 3.0.2				ESX Server 3.0.3						
		Basic connectivity Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹ Boot from SAN	Basic connectivity Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹ Boot from SAN	Basic connectivity Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹ Boot from SAN	Basic connectivity Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹ Boot from SAN	Basic connectivity Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹ Boot from SAN				
FibreCAT	AX100 ²	X	X	X				X	X	X				X	X	X				
	CX200	X	X	X	X	X	X	X	X	X	X	X	X ^{4,5}	X	X	X	X	X ^{4,5}	X	
	CX300	X	X	X	X	X	X	X	X	X	X	X	X ^{4,5}	X	X	X	X	X ^{4,5}	X	
	CX400	X	X	X	X	X	X	X	X	X	X	X	X ^{4,5}	X	X	X	X	X ^{4,5}	X	
	CX500	X	X	X	X	X	X	X	X	X	X	X	X ^{4,5}	X	X	X	X	X ^{4,5}	X	
	CX600	X	X	X	X	X	X	X	X	X	X	X	X ^{4,5}	X	X	X	X	X ^{4,5}	X	
	CX700	X	X	X	X	X	X	X	X	X	X	X	X ^{4,5}	X	X	X	X	X ^{4,5}	X	
	CX3-10c	X	X	X	X	X	X	X	X	X	X	X	X ^{4,5}	X	X	X	X	X ^{4,5}	X	
	CX3-20	X	X	X	X ^{4,5}	X	X	X	X	X ^{4,5}	X	X	X	X	X ^{4,5}	X	X	X	X ^{4,5}	X
	CX3-20c	X	X	X	X ^{4,5}	X	X	X	X	X ^{4,5}	X	X	X	X	X ^{4,5}	X	X	X	X ^{4,5}	X
	CX3-20f	X	X	X	X ^{4,5}	X	X	X	X	X ^{4,5}	X	X	X	X	X ^{4,5}	X	X	X	X ^{4,5}	X
	CX3-40	X	X	X	X ^{4,5}	X	X	X	X	X ^{4,5}	X	X	X	X	X ^{4,5}	X	X	X	X ^{4,5}	X
	CX3-40c	X	X	X	X ^{4,5}	X	X	X	X	X ^{4,5}	X	X	X	X	X ^{4,5}	X	X	X	X ^{4,5}	X
	CX3-40f	X	X	X	X ^{4,5}	X	X	X	X	X ^{4,5}	X	X	X	X	X ^{4,5}	X	X	X	X ^{4,5}	X
	CX3-80	X	X	X	X ^{4,5}	X	X	X	X	X ^{4,5}	X	X	X	X	X ^{4,5}	X	X	X	X ^{4,5}	X
	CX4-120					X	X	X		X	X	X	X		X	X	X	X		X
	CX4-240					X	X	X		X	X	X	X		X	X	X	X		X
	CX4-480					X	X	X		X	X	X	X		X	X	X	X		X
	CX4-960					X	X	X		X	X	X	X		X	X	X	X		X
	S80 ³	X	X	X		X	X	X		X	X	X		X	X	X				
	SX 60 ⁶	X	X	X		X	X	X		X	X	X		X	X	X				
	SX 80 ^{6,7}	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X			X
SX 88 ^{6,7}									X	X	X		X	X	X	X			X	

Table 11. Fujitsu Siemens (Continued)

	ESX Server 3.0	ESX Server 3.0.1	ESX Server 3.0.2	ESX Server 3.0.3
	Basic connectivity Multipathing with HBA failover Multipathing with storage port failover	Microsoft Clustering support ¹ Boot from SAN Basic connectivity Multipathing with HBA failover Multipathing with storage port failover	Microsoft Clustering support ¹ Boot from SAN Basic connectivity Multipathing with HBA failover Multipathing with storage port failover	Microsoft Clustering support Boot from SAN Basic connectivity Multipathing with HBA failover Multipathing with storage port failover Microsoft Clustering support Boot from SAN
See NOTE on page 1 for JBOD support information.				
¹ MSCS supported with 2Gb HBAs using Qlogic 7.04.00 and Emulex 7.1.14 drivers only. Please refer to http://kb.vmware.com/kb/1560391 .				
² DirectConnect and multipathing with HBA failover is supported.				
³ Supported with Emulex HBAs only.				
⁴ MSCS supported with both 2Gb and 4Gb Fibre Channel HBAs on ESX Server 3.0.2 or later. Please refer to: http://kb.vmware.com/kb/1002304				
⁵ Supported with Windows Server 2003 SP1 Enterprise Edition, Windows Server 2003 SP2 Enterprise Edition and Windows Server 2003 R2 Enterprise Edition. Supported with Windows 2000 SP4 and Windows 2003 RTM for 2G HBAs only.				
⁶ No FW-Update possible under host I/O.				
⁷ Contact Fujitsu Siemens for SAN Boot guidelines.				

Table 12. Hewlett Packard

		ESX Server 3.0					ESX Server 3.0.1					ESX Server 3.0.2					ESX Server 3.0.3					
		Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN	
HP Modular Systems Array (MSA)	1000 ³	X	X	X	X	X	X	X	X	X	X	X	X	X ¹	X	X	X	X	X	X	X	
	1500	X	X	X	X ^{4,5}	X	X	X	X	X ^{4,5}	X	X	X	X	X ^{4,5}	X	X	X	X	X ^{4,5}	X	
	2012fc						X	X	X		X	X	X	X		X	X	X	X		X	
	2212fc						X	X	X		X	X	X	X		X	X	X	X		X	
HP Enterprise Virtual Array (EVA)	3000	X	X	X	X	X	X	X	X	X	X	X	X	X ¹	X	X	X	X	X	X	X	
	4000	X	X	X	X	X	X	X	X	X	X	X	X	X ^{2,8,11}	X	X	X	X	X	X ^{2,8}	X	
	4100	X	X	X	X	X	X	X	X	X	X	X	X	X ^{2,8}	X	X	X	X	X	X ^{2,8}	X	
	4400						X ¹⁰	X ¹⁰	X ¹⁰		X ¹⁰	X	X	X		X	X	X	X		X	
	4400 with Embedded Switch						X ¹⁰	X ¹⁰	X ¹⁰		X ¹⁰	X	X	X		X	X	X	X		X	
	5000	X	X	X	X	X	X	X	X	X	X	X	X	X	X ¹	X	X	X	X	X	X	X
	6000	X	X	X	X	X	X	X	X	X	X	X	X	X	X ^{2,8,11}	X	X	X	X	X	X ^{2,8}	X
	6100	X	X	X	X	X	X	X	X	X	X	X	X	X	X ^{2,8}	X	X	X	X	X	X ^{2,8}	X
	8000	X	X	X	X	X	X	X	X	X	X	X	X	X	X ^{2,8,11}	X	X	X	X	X	X ^{2,8}	X
	8100	X	X	X	X	X	X	X	X	X	X	X	X	X	X ^{2,8}	X	X	X	X	X	X ^{2,8}	X
HP XP	128	X	X	X	X	X	X	X	X	X	X	X	X	X ¹	X	X	X	X	X	X	X	
	1024	X	X	X	X	X	X	X	X	X	X	X	X	X ¹	X	X	X	X	X	X	X	
	10000 ^{5,12}	X	X	X	X	X	X	X	X	X	X	X	X	X ¹	X	X	X	X	X	X	X	
	12000 ^{5,12}	X	X	X	X	X	X	X	X	X	X	X	X	X ¹	X	X	X	X	X	X	X	
	20000	X ^{6,9}	X ^{6,9}	X ^{6,9}		X ^{6,9}	X ⁶	X ⁶	X ⁶		X ⁶	X	X	X	X ^{2,7}	X	X	X	X	X ^{2,7}	X	
	24000	X ^{6,9}	X ^{6,9}	X ^{6,9}		X ^{6,9}	X ⁶	X ⁶	X ⁶		X ⁶	X	X	X	X ^{2,7}	X	X	X	X	X ^{2,7}	X	

See **NOTE** on page 1 for JBOD support information.

Table 12. Hewlett Packard (Continued)

	ESX Server 3.0	ESX Server 3.0.1	ESX Server 3.0.2	ESX Server 3.0.3
	Basic connectivity Multipathing with HBA failover Multipathing with storage port failover Microsoft Clustering support ¹	Boot from SAN Basic connectivity Multipathing with HBA failover Multipathing with storage port failover Microsoft Clustering support ¹	Boot from SAN Basic connectivity Multipathing with HBA failover Multipathing with storage port failover Microsoft Clustering support	Boot from SAN Basic connectivity Multipathing with HBA failover Multipathing with storage port failover Microsoft Clustering support
Please contact your local HP account or service representative for definitive information about supported HP storage product configurations including Guest OS types, array firmware and best practices when used with VMware products.				
¹ MSCS supported with 2Gb HBAs using Qlogic 7.04.00 and Emulex 7.1.14 drivers only. Please refer to http://kb.vmware.com/kb/1560391 .				
² MSCS supported with both 2Gb and 4Gb Fibre Channel HBAs on ESX Server ESX 3.0.2 or later. Please refer to http://kb.vmware.com/kb/1002304 .				
³ These are active/passive versions, FW 4.xx (MSA1000)				
⁴ Support for Windows 2000 SP4 only.				
⁵ MSCS supported with active/passive version, FW 5.xx (MSA1500).				
⁶ Restricted to internal storage configurations only.				
⁷ Supported with Windows Server 2003 SP1 Enterprise Edition, Windows Server 2003 SP2 Enterprise Edition and Windows Server 2003 R2 Enterprise Edition.				
⁸ Supported with Windows Server 2003 SP1 Enterprise Edition, Windows Server 2003 SP2 Enterprise Edition and Windows Server 2003 R2 Enterprise Edition. Supported with Windows 2000 SP4 and Windows 2003 RTM for 2G HBAs only.				
⁹ Supported with Qlogic 7.07.04 and Emulex 7.3.2_vmw2 drivers or later versions.				
¹⁰ Requires October 2007 patch (build 55865) or later for ESX Server 3.0.1.				
¹¹ Requires ESX Server 3.0.2 with Patch ESX-1003524 (build 81860 or later) to support Windows 2003 SP2 64bit Enterprise Edition.				
¹² Please refer to http://kb.vmware.com/kb/1005009 .				

Table 13. Hitachi, Ltd.

	ESX Server 3.0					ESX Server 3.0.1					ESX Server 3.0.2				ESX Server 3.0.3					
	Basic connectivity Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹	Boot from SAN	Basic connectivity Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹	Boot from SAN	Basic connectivity Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN	Basic connectivity Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN				
AMS 2100										X	X	X		X	X	X	X	X		
AMS 2300										X	X	X		X	X	X	X	X		
BR 50	X	X	X	X ⁵	X	X	X	X	X ⁵	X	X	X	X	X ^{1,5}	X	X	X	X	X ⁵	X
BR 150	X	X	X	X ⁵	X	X	X	X	X ⁵	X	X	X	X	X ^{1,5}	X	X	X	X	X ⁵	X
SANRISE																				
9500V	X	X	X	X	X	X	X	X	X	X	X	X	X	X ¹	X	X	X	X	X	X
9970V	X ⁵	X ⁶	X ⁶	X ⁶	X	X	X	X	X	X	X	X	X	X ¹	X	X	X	X	X	X
9980V	X ⁶	X ⁶	X ⁶	X ⁶	X	X	X	X	X	X	X	X	X	X ¹	X	X	X	X	X	X
AMS 200	X	X	X	X ⁵	X	X	X	X	X ⁵	X	X	X	X	X ^{1,5}	X	X	X	X	X ⁵	X
AMS 500	X	X	X	X ⁵	X	X	X	X	X ⁵	X	X	X	X	X ^{1,5}	X	X	X	X	X ⁵	X
AMS 1000	X	X	X	X ⁵	X	X	X	X	X ⁵	X	X	X	X	X ^{1,5}	X	X	X	X	X ⁵	X
NSC 55 ^{4,11}	X	X	X	X ²	X	X	X	X	X ²	X	X	X	X	X ^{3,8}	X	X	X	X	X ^{3,8}	X
WMS 100	X	X	X	X ⁵	X	X	X	X	X ⁵	X	X	X	X	X ^{1,5}	X	X	X	X	X ⁵	X
USP 100 ^{4,11}	X	X	X	X ²	X	X	X	X	X ²	X	X	X	X	X ^{3,8}	X	X	X	X	X ^{3,8}	X
USP 600 ^{4,11}	X	X	X	X ²	X	X	X	X	X ²	X	X	X	X	X ^{3,8}	X	X	X	X	X ^{3,8}	X
USP 1100 ^{4,11}	X	X	X	X ²	X	X	X	X	X ²	X	X	X	X	X ^{3,8}	X	X	X	X	X ^{3,8}	X
USP V ⁴	X ^{9,10}	X ^{9,10}	X ^{9,10}	X ^{9,10}	X ^{9,10}	X ¹⁰	X ¹⁰	X ¹⁰	X ¹⁰	X	X	X	X	X ^{3,7}	X	X	X	X	X ^{3,7}	X
USP VM ⁴	X ^{9,10}	X ^{9,10}	X ^{9,10}	X ^{9,10}	X ^{9,10}	X ¹⁰	X ¹⁰	X ¹⁰	X ¹⁰	X	X	X	X	X ^{3,7}	X	X	X	X	X ^{3,7}	X

See **NOTE** on page 1 for JBOD support information.

Contact Hitachi, Ltd. for additional information, including Hitachi, Ltd. storage array microcode levels and the specific guest operating system, HBA, and switched fabric configurations that Hitachi, Ltd. supports.

Table 13. Hitachi, Ltd. (Continued)

	ESX Server 3.0	ESX Server 3.0.1	ESX Server 3.0.2	ESX Server 3.0.3
	Basic connectivity Multipathing with HBA failover Multipathing with storage port failover Microsoft Clustering support ¹	Boot from SAN Basic connectivity Multipathing with HBA failover Multipathing with storage port failover Microsoft Clustering support ¹	Boot from SAN Basic connectivity Multipathing with HBA failover Multipathing with storage port failover Microsoft Clustering support Boot from SAN	Basic connectivity Multipathing with HBA failover Multipathing with storage port failover Microsoft Clustering support Boot from SAN
¹	MSCS supported with 2Gb HBAs using Qlogic 7.04.00 and Emulex 7.1.14 drivers only. Please refer to http://kb.vmware.com/kb/1560391 .			
²	Supported with Qlogic 2G HBAs and 7.04.00 driver only. Please refer to http://kb.vmware.com/kb/1560391 .			
³	MSCS supported with both 2Gb and 4Gb Fibre Channel HBAs on ESX Server 3.0.2 or later. Please refer to http://kb.vmware.com/kb/1002304 .			
⁴	Both internal and virtualized storage are supported. Refer to SVD section for details on virtualized storage support.			
⁵	Supported with 2G Qlogic HBAs only.			
⁶	Supported with 4G HBAs only.			
⁷	Supported with Windows Server 2003 SP1 Enterprise Edition, Windows Server 2003 SP2 Enterprise Edition and Windows Server 2003 R2 Enterprise Edition.			
⁸	Supported with Windows Server 2003 SP1 Enterprise Edition, Windows Server 2003 SP2 Enterprise Edition and Windows Server 2003 R2 Enterprise Edition. Supported with Windows 2000 SP4 and Windows 2003 RTM for 2G HBAs only.			
⁹	Supported with Qlogic 7.07.04 and Emulex 7.3.2_vmw2 drivers or later versions.			
¹⁰	Limited to internal storage configurations only.			
¹¹	Please refer to http://kb.vmware.com/kb/1005009 .			

Table 14. Hitachi Data Systems (HDS)

		ESX Server 3.0				ESX Server 3.0.1				ESX Server 3.0.2				ESX Server 3.0.3							
		Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN
Lightning	9970V	X ⁶	X ⁶	X ⁶	X ⁶	X	X	X	X	X	X	X	X	X	X ¹	X	X	X	X	X	X
	9980V	X ⁶	X ⁶	X ⁶	X ⁶	X	X	X	X	X	X	X	X	X	X ¹	X	X	X	X	X	X
TagmaStore	AMS 200	X	X	X	X ⁵	X	X	X	X	X ⁵	X	X	X	X	X ^{1, 5}	X	X	X	X	X ⁵	X
	AMS 500	X	X	X	X ⁵	X	X	X	X	X ⁵	X	X	X	X	X ^{1, 5}	X	X	X	X	X ⁵	X
	AMS 1000	X	X	X	X ⁵	X	X	X	X	X ⁵	X	X	X	X	X ^{1, 5}	X	X	X	X	X ⁵	X
	NSC 55 ^{4, 11}	X	X	X	X ²	X	X	X	X	X ²	X	X	X	X	X ^{3, 8}	X	X	X	X	X ^{3, 8}	X
	WMS 100	X	X	X	X ⁵	X	X	X	X	X ⁵	X	X	X	X	X ^{1, 5}	X	X	X	X	X ⁵	X
	USP 100 ^{4, 11}	X	X	X	X ²	X	X	X	X	X ²	X	X	X	X	X ^{3, 8}	X	X	X	X	X ^{3, 8}	X
	USP 600 ^{4, 11}	X	X	X	X ²	X	X	X	X	X ²	X	X	X	X	X ^{3, 8}	X	X	X	X	X ^{3, 8}	X
	USP 1100 ^{4, 11}	X	X	X	X ²	X	X	X	X	X ²	X	X	X	X	X ^{3, 8}	X	X	X	X	X ^{3, 8}	X
Thunder	9500V Series	X	X	X	X	X	X	X	X	X	X	X	X	X ¹	X	X	X	X	X	X	X
	USP V ⁴	X ^{9, 10}	X ^{9, 10}	X ^{9, 10}	X ^{9, 10}	X ¹⁰	X ¹⁰	X ¹⁰	X ¹⁰	X ¹⁰	X	X	X	X ^{3, 7}	X	X	X	X	X ^{3, 7}	X	
	USP VM ⁴	X ^{9, 10}	X ^{9, 10}	X ^{9, 10}	X ^{9, 10}	X ¹⁰	X ¹⁰	X ¹⁰	X ¹⁰	X	X	X	X ^{3, 7}	X	X	X	X	X	X ^{3, 7}	X	

See **NOTE** on page 1 for JBOD support information.

Contact HDS for additional information, including HDS storage array microcode levels and the specific guest operating system, HBA, and switched fabric configurations that HDS supports.

¹ MSCS supported with 2Gb HBAs using Qlogic 7.04.00 and Emulex 7.1.14 drivers only. Please refer to <http://kb.vmware.com/kb/1560391>.

² Supported with Qlogic 2G HBAs and 7.04.00 driver only. Please refer to <http://kb.vmware.com/kb/1560391>.

³ MSCS supported with both 2Gb and 4Gb Fibre Channel HBAs on ESX Server 3.0.2 or later. Please refer to <http://kb.vmware.com/kb/1002304>.

⁴ Both internal and virtualized storage are supported. Refer to SVD section for details on virtualized storage support.

⁵ Supported with 2G Qlogic HBAs only.

Table 14. Hitachi Data Systems (HDS) (Continued)

	ESX Server 3.0	ESX Server 3.0.1	ESX Server 3.0.2	ESX Server 3.0.3
	Basic connectivity Multipathing with HBA failover Multipathing with storage port failover Microsoft Clustering support ¹ Boot from SAN	Basic connectivity Multipathing with HBA failover Multipathing with storage port failover Microsoft Clustering support ¹ Boot from SAN	Basic connectivity Multipathing with HBA failover Multipathing with storage port failover Microsoft Clustering support Boot from SAN	Basic connectivity Multipathing with HBA failover Multipathing with storage port failover Microsoft Clustering support Boot from SAN
⁶	Supported with 4G HBAs only.			
⁷	Supported with Windows Server 2003 SP1 Enterprise Edition, Windows Server 2003 SP2 Enterprise Edition and Windows Server 2003 R2 Enterprise Edition.			
⁸	Supported with Windows Server 2003 SP1 Enterprise Edition, Windows Server 2003 SP2 Enterprise Edition and Windows Server 2003 R2 Enterprise Edition. Supported with Windows 2000 SP4 and Windows 2003 RTM for 2G HBAs only.			
⁹	Supported with Qlogic 7.07.04 and Emulex 7.3.2_vmw2 drivers or later versions.			
¹⁰	Limited to internal storage configurations only.			
¹¹	Please refer to http://kb.vmware.com/kb/1005009 .			

Table 15. IBM

	ESX Server 3.0	ESX Server 3.0.1	ESX Server 3.0.2	ESX Server 3.0.3
	Basic connectivity Multipathing with HBA failover Multipathing with storage port failover Microsoft Clustering support ¹ Boot from SAN	Basic connectivity Multipathing with HBA failover Multipathing with storage port failover Microsoft Clustering support ¹ Boot from SAN	Basic connectivity Multipathing with HBA failover Multipathing with storage port failover Microsoft Clustering support Boot from SAN	Basic connectivity Multipathing with HBA failover Multipathing with storage port failover Microsoft Clustering support Boot from SAN
DS3400		X X X	X X X X	X X X X
DS4100/ FAStT100	X X X	X X X X	X X X X	X X X X
FAStT200	X X X	X X X X	X X X X	X X X X

Table 15. IBM (Continued)

	ESX Server 3.0				ESX Server 3.0.1				ESX Server 3.0.2				ESX Server 3.0.3					
	Basic connectivity Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹ Boot from SAN	Basic connectivity Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹ Boot from SAN	Basic connectivity Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support Boot from SAN	Basic connectivity Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support Boot from SAN	Basic connectivity Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support Boot from SAN			
DS4200 ³	X	X	X	X	X	X	X	X	X	X	X	X ^{2, 7, 10}	X	X	X	X	X ^{2, 7}	X
DS4300/ FAStT600	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
DS4400/ FAStT700	X	X	X	X	X	X	X	X	X	X	X	X ¹	X	X	X	X	X	X
DS4500/ FAStT900	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
DS4700 ³	X	X	X	X	X	X	X	X	X	X	X	X ^{2, 7, 10}	X	X	X	X	X ^{2, 7}	X
DS4800 ³	X	X	X	X	X	X	X	X	X	X	X	X ^{2, 7, 10}	X	X	X	X	X ^{2, 7}	X
DS6000 ⁵	X	X	X	X	X	X	X ⁴	X	X	X	X	X ⁴	X	X	X	X	X ⁴	X
DS8000	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ESS750/800	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
F10/F20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
N3000 Series				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
N5000 Series ⁶	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
N7000 Series ⁶	X	X	X	X	X	X	X ⁹	X	X	X	X	X ⁹	X	X	X	X	X ⁹	X
See NOTE on page 1 for JBOD support information.																		
¹ MSCS supported with 2Gb HBAs using Qlogic 7.04.00 and Emulex 7.1.14 drivers only. Please refer to http://kb.vmware.com/kb/1560391 .																		
² MSCS supported with both 2Gb and 4Gb Fibre Channel HBAs on ESX Server ESX 3.0.2 or later. Please refer to http://kb.vmware.com/kb/1002304 .																		
³ Support for 2Gb and 4Gb HBA. Please refer to http://kb.vmware.com/kb/1560391 .																		
⁴ Support for 2Gb HBAs and Windows 2003 only.																		
⁵ Support for 2Gb HBAs only.																		
⁶ Support for internal storage only.																		

Table 15. IBM (Continued)

	ESX Server 3.0	ESX Server 3.0.1	ESX Server 3.0.2	ESX Server 3.0.3
Basic connectivity				
Multipathing with HBA failover				
Multipathing with storage port failover				
Microsoft Clustering support ¹				
Boot from SAN				
Basic connectivity				
Multipathing with HBA failover				
Multipathing with storage port failover				
Microsoft Clustering support ¹				
Boot from SAN				
Basic connectivity				
Multipathing with HBA failover				
Multipathing with storage port failover				
Microsoft Clustering support				
Boot from SAN				
Basic connectivity				
Multipathing with HBA failover				
Multipathing with storage port failover				
Microsoft Clustering support				
Boot from SAN				

⁷ Supported with Windows Server 2003 SP1 Enterprise Edition, Windows Server 2003 SP2 Enterprise Edition and Windows Server 2003 R2 Enterprise Edition. Supported with Windows 2000 SP4 and Windows 2003 RTM for 2G HBAs only.

⁸ Supported with QLogic HBAs only.

⁹ Cluster Across Box with Windows 2003 only supported.

¹⁰ Patch ESX-1003524 (build 81860 or later) required to support Windows 2003 SP2 64bit Enterprise Edition.

Table 16. Infortrend Technology Inc.

	ESX Server 3.0	ESX Server 3.0.1	ESX Server 3.0.2	ESX Server 3.0.3
Basic connectivity				
Multipathing with HBA failover				
Multipathing with storage port failover				
Microsoft Clustering support ¹				
Boot from SAN				
Basic connectivity				
Multipathing with HBA failover				
Multipathing with storage port failover				
Microsoft Clustering support ¹				
Boot from SAN				
Basic connectivity				
Multipathing with HBA failover				
Multipathing with storage port failover				
Microsoft Clustering support				
Boot from SAN				
Basic connectivity				
Multipathing with HBA failover				
Multipathing with storage port failover				
Microsoft Clustering support				
Boot from SAN				

FF-R4030¹ X X X X X X X

FF-S4030¹ X X X X X X X

F16F-R4031¹ X X X X X X X

F16F-S4031¹ X X X X X X X

S16F-G1430¹ X X X X X X X

S16F-R1430¹ X X X X X X X

Table 16. Infortrend Technology Inc.

	ESX Server 3.0	ESX Server 3.0.1	ESX Server 3.0.2	ESX Server 3.0.3
Basic connectivity				
Multipathing with HBA failover				
Multipathing with storage port failover				
Microsoft Clustering support				
Boot from SAN				
Basic connectivity				
Multipathing with HBA failover				
Multipathing with storage port failover				
Microsoft Clustering support				
Boot from SAN				
Basic connectivity				
Multipathing with HBA failover				
Multipathing with storage port failover				
Microsoft Clustering support				
Boot from SAN				
Basic connectivity				
Multipathing with HBA failover				
Multipathing with storage port failover				
Microsoft Clustering support				
Boot from SAN				
S12F-R1432 ¹			X X X	X X X
S12F-G1433 ¹			X X X	X X X
B12F-R1430 ¹			X X X	X X X
B12F-G1430 ¹			X X X	X X X
A24F-R2430 ¹			X X X	X X X
A24F-G2430 ¹			X X X	X X X
A16F-R2431 ¹			X X X	X X X
A16F-G2430 ¹			X X X	X X X
A12F-G2422 ¹			X X X	X X X
A08F-G2422 ¹			X X X	X X X
See NOTE on page 1 for JBOD support information.				
¹ Please refer to Infortrend's website for Active/Passive configuration with ESX Server: http://www.infortrend.com/doc/VMware.pdf				

Table 17. NEC

		ESX Server 3.0					ESX Server 3.0.1					ESX Server 3.0.2					ESX Server 3.0.3				
		Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN
iStorage	D1-10					X	X	X		X	X	X	X	X	X	X	X	X	X	X	X
	D3-10					X	X	X		X	X	X	X	X	X	X	X	X	X	X	X
	D8					X	X	X		X	X	X	X	X	X	X	X	X	X	X	X
	E1-10					X	X	X		X	X	X	X	X	X	X	X	X	X	X	X
	S500	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	S550					X	X	X		X	X	X	X	X	X	X	X	X	X	X	X
	S1400	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	S1500	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	S2500	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	S2800	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	S2900	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	S4900					X	X	X		X	X	X	X	X	X	X	X	X	X	X	X

See **NOTE** on page 1 for JBOD support information.

¹ MSCS supported with 2Gb HBAs using Qlogic 7.04.00 and Emulex 7.1.14 drivers only. Please refer to <http://kb.vmware.com/kb/1560391>.

Table 18. NetApp

	ESX Server 3.0				ESX Server 3.0.1				ESX Server 3.0.2				ESX Server 3.0.3									
	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN		
FAS200 Series					X	X	X		X	X	X	X		X	X	X	X		X	X	X	X
FAS900 Series					X	X	X		X	X	X	X		X	X	X	X		X	X	X	X
FAS2000 Series					X	X	X		X	X	X	X		X	X	X	X		X	X	X	X
FAS3000 Series	X	X	X		X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	X
FAS6000 Series	X	X	X		X	X	X	X	X ²	X	X	X	X	X ²	X	X	X	X	X	X ²	X	X
See NOTE on page 1 for JBOD support information.																						
¹ MSCS supported with 2Gb HBAs using Qlogic 7.04.00 and Emulex 7.1.14 drivers only. Please refer to http://kb.vmware.com/kb/1560391 .																						
² Cluster Across Box with Windows 2003 only supported.																						

Table 19. Newtech

	ESX Server 3.0				ESX Server 3.0.1				ESX Server 3.0.2				ESX Server 3.0.3											
	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN				
SweeperStor	X	X	X		X	X	X		X	X	X		X	X	X		X	X	X		X	X	X	
See NOTE on page 1 for JBOD support information.																								

Table 20. Nihon Unisys Ltd

		ESX Server 3.0				ESX Server 3.0.1				ESX Server 3.0.2				ESX Server 3.0.3							
		Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN
SANARENA	1830	X	X	X	X ⁵	X	X	X	X	X ⁵	X	X	X	X	X ^{1, 5}	X	X	X	X	X ⁵	X
	1870	X	X	X	X ⁵	X	X	X	X	X ⁵	X	X	X	X	X ^{1, 5}	X	X	X	X	X ⁵	X
	1890	X	X	X	X ⁵	X	X	X	X	X ⁵	X	X	X	X	X ^{1, 5}	X	X	X	X	X ⁵	X
	1895	X	X	X	X ⁵	X	X	X	X	X ⁵	X	X	X	X	X ^{1, 5}	X	X	X	X	X ⁵	X
	18AS	X	X	X	X ⁵	X	X	X	X	X ⁵	X	X	X	X	X ^{1, 5}	X	X	X	X	X ⁵	X
	5200 ^{4, 7}	X	X	X	X ²	X	X	X	X	X ²	X	X	X	X	X ^{3, 6}	X	X	X	X	X ^{3, 6}	X
	5800 ^{4, 7}	X	X	X	X ²	X	X	X	X	X ²	X	X	X	X	X ^{3, 6}	X	X	X	X	X ^{3, 6}	X
See NOTE on page 1 for JBOD support information.																					
¹ MSCS supported with 2Gb HBAs using Qlogic 7.04.00 and Emulex 7.1.14 drivers only. Please refer to http://kb.vmware.com/kb/1560391 .																					
² Supported with Qlogic 2G HBAs and 7.04.00 driver only. Please refer to http://kb.vmware.com/kb/1560391 .																					
³ MSCS supported with both 2Gb and 4Gb Fibre Channel HBAs on ESX Server 3.0.2 or later. Please refer to http://kb.vmware.com/kb/1002304 .																					
⁴ Both internal and virtualized storage are supported. Refer to SVD section for details on virtualized storage support.																					
⁵ Supported with 2G Qlogic HBAs only.																					
⁶ Supported with Windows Server 2003 SP1 Enterprise Edition, Windows Server 2003 SP2 Enterprise Edition and Windows Server 2003 R2 Enterprise Edition. Supported with Windows 2000 SP4 and Windows 2003 RTM for 2G HBAs only.																					
⁷ Please refer to http://kb.vmware.com/kb/1005009 .																					

Table 21. Overland Storage

	ESX Server 3.0	ESX Server 3.0.1	ESX Server 3.0.2	ESX Server 3.0.3
	Basic connectivity Multipathing with HBA failover Multipathing with storage port failover Microsoft Clustering support ¹ Boot from SAN	Basic connectivity Multipathing with HBA failover Multipathing with storage port failover Microsoft Clustering support ¹ Boot from SAN	Basic connectivity Multipathing with HBA failover Multipathing with storage port failover Microsoft Clustering support Boot from SAN	Basic connectivity Multipathing with HBA failover Multipathing with storage port failover Microsoft Clustering support Boot from SAN
ULTAMUS RAID 1200		X X X	X X X X	X X X X X
See NOTE on page 1 for JBOD support information.				

Table 22. Pillar Data Systems

	ESX Server 3.0	ESX Server 3.0.1	ESX Server 3.0.2	ESX Server 3.0.3
	Basic connectivity Multipathing with HBA failover Multipathing with storage port failover Microsoft Clustering support ¹ Boot from SAN	Basic connectivity Multipathing with HBA failover Multipathing with storage port failover Microsoft Clustering support ¹ Boot from SAN	Basic connectivity Multipathing with HBA failover Multipathing with storage port failover Microsoft Clustering support Boot from SAN	Basic connectivity Multipathing with HBA failover Multipathing with storage port failover Microsoft Clustering support Boot from SAN
Axiom Storage System 300	X X X	X X X X	X X X X X ^{2, 3, 4}	X X X X X ^{2, 3, 4} X
Axiom Storage System 500	X X X	X X X X	X X X X X ^{2, 3, 4}	X X X X X ^{2, 3, 4} X
See NOTE on page 1 for JBOD support information.				
¹ MSCS supported with 2Gb HBAs using Qlogic 7.04.00 and Emulex 7.1.14 drivers only. Please refer to http://kb.vmware.com/kb/1560391 .				
² MSCS supported with both 2Gb and 4Gb Fibre Channel HBAs on ESX Server 3.0.2 or later. Please refer to http://kb.vmware.com/kb/1002304 .				

Table 22. Pillar Data Systems (Continued)

	ESX Server 3.0	ESX Server 3.0.1	ESX Server 3.0.2	ESX Server 3.0.3
Basic connectivity				
Multipathing with HBA failover				
Multipathing with storage port failover				
Microsoft Clustering support ¹				
Boot from SAN				
Basic connectivity				
Multipathing with HBA failover				
Multipathing with storage port failover				
Microsoft Clustering support ¹				
Boot from SAN				
Basic connectivity				
Multipathing with HBA failover				
Multipathing with storage port failover				
Microsoft Clustering support				
Boot from SAN				
Basic connectivity				
Multipathing with HBA failover				
Multipathing with storage port failover				
Microsoft Clustering support				
Boot from SAN				

³ Supported with Windows Server 2003 SP1 Enterprise Edition, Windows Server 2003 SP2 Enterprise Edition and Windows Server 2003 R2 Enterprise Edition. Supported with Windows 2000 SP4 and Windows 2003 RTM for 2G HBAs only.

⁴ Supported with Qlogic HBAs only.

Table 23. SGI

	ESX Server 3.0	ESX Server 3.0.1	ESX Server 3.0.2	ESX Server 3.0.3
Basic connectivity				
Multipathing with HBA failover				
Multipathing with storage port failover				
Microsoft Clustering support ¹				
Boot from SAN				
Basic connectivity				
Multipathing with HBA failover				
Multipathing with storage port failover				
Microsoft Clustering support ¹				
Boot from SAN				
Basic connectivity				
Multipathing with HBA failover				
Multipathing with storage port failover				
Microsoft Clustering support				
Boot from SAN				
Basic connectivity				
Multipathing with HBA failover				
Multipathing with storage port failover				
Microsoft Clustering support				
Boot from SAN				
InfiniteStorage 4000 ¹	X	X	X	X

¹ Supported with 2Gb HBA only.

Table 24. Stratus

	ESX Server 3.0		ESX Server 3.0.1		ESX Server 3.0.2		ESX Server 3.0.3								
	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN
ftScalable D919x	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
See NOTE on page 1 for JBOD support information.															

Table 25. Sun

		ESX Server 3.0				ESX Server 3.0.1				ESX Server 3.0.2				ESX Server 3.0.3					
		Basic connectivity Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹	Boot from SAN	Basic connectivity Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹	Boot from SAN	Basic connectivity Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN	Basic connectivity Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN		
Sun StorageTek	2540 ⁹				X	X	X	X	X	X	X	X	X	X	X	X	X		
	3510 ³	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
	3511 ³	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
	6130 ³	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
	6140	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
	6920 ^{5,6}	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
	6540	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
	9970	X ⁸	X ⁸	X ⁸	X ⁸	X	X	X	X	X	X	X	X ¹	X	X	X	X	X	
	9980	X ⁸	X ⁸	X ⁸	X ⁸	X	X	X	X	X	X	X	X ²	X	X	X	X	X	
	9985 ^{7, 13}	X	X	X	X ²	X	X	X	X	X ²	X	X	X	X	X ^{4, 11}	X	X	X	X ^{4, 11}
	9985V ⁷	X ^{6, 12}	X ^{6, 12}	X ^{6, 12}	X ^{6, 12}	X ⁶	X ⁶	X ⁶	X ⁶	X ⁶	X	X	X	X	X ^{4, 10}	X	X	X	X ^{4, 10}
	9990 ¹³	X	X	X	X ²	X	X	X	X	X ²	X	X	X	X	X ^{4, 11}	X	X	X	X ^{4, 11}
	9990V ⁷	X ^{6, 12}	X ^{6, 12}	X ^{6, 12}	X ^{6, 12}	X ⁶	X ⁶	X ⁶	X ⁶	X ⁶	X	X	X	X	X ^{4, 10}	X	X	X	X ^{4, 10}
Sun StorageTek Flexline	240	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
	280	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
	380	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		

See **NOTE** on page 1 for JBOD support information.

¹ MSCS supported with 2Gb HBAs using Qlogic 7.04.00 and Emulex 7.1.14 drivers only. Please refer to <http://kb.vmware.com/kb/1560391>.

² Supported with Qlogic 2G HBAs and 7.04.00 driver only. Please refer to <http://kb.vmware.com/kb/1560391>.

³ Support for 2Gb HBA only. Please refer to <http://kb.vmware.com/kb/1560391>.

⁴ MSCS supported with both 2Gb and 4Gb Fibre Channel HBAs on ESX Server 3.0.2 or later. Please refer to <http://kb.vmware.com/kb/1002304>.

⁵ Only supported with MRU failover policy

Table 25. Sun (Continued)

	ESX Server 3.0	ESX Server 3.0.1	ESX Server 3.0.2	ESX Server 3.0.3
Basic connectivity				
Multipathing with HBA failover				
Multipathing with storage port failover				
Microsoft Clustering support ¹				
Boot from SAN				
Basic connectivity				
Multipathing with HBA failover				
Multipathing with storage port failover				
Microsoft Clustering support ¹				
Boot from SAN				
Basic connectivity				
Multipathing with HBA failover				
Multipathing with storage port failover				
Microsoft Clustering support				
Boot from SAN				
Basic connectivity				
Multipathing with HBA failover				
Multipathing with storage port failover				
Microsoft Clustering support				
Boot from SAN				

⁶ Limited to internal storage configurations only.

⁷ Both internal and virtualized storage are supported. Refer to SVD section for details on virtualized storage support.

⁸ Supported with 4G HBAs only.

⁹ Requires patch ESX-9865995 for correct failover operations.

¹⁰ Supported with Windows Server 2003 SP1 Enterprise Edition, Windows Server 2003 SP2 Enterprise Edition and Windows Server 2003 R2 Enterprise Edition.

¹¹ Supported with Windows Server 2003 SP1 Enterprise Edition, Windows Server 2003 SP2 Enterprise Edition and Windows Server 2003 R2 Enterprise Edition. Supported with Windows 2000 SP4 and Windows 2003 RTM for 2G HBAs only.

¹² Supported with Qlogic 7.07.04 and Emulex 7.3.2_vmw2 drivers or later versions.

¹³ Please refer to <http://kb.vmware.com/kb/1005009>.

Table 26. Transtec

	ESX Server 3.0	ESX Server 3.0.1	ESX Server 3.0.2	ESX Server 3.0.3
Basic connectivity				
Multipathing with HBA failover				
Multipathing with storage port failover				
Microsoft Clustering support ¹				
Boot from SAN				
Basic connectivity				
Multipathing with HBA failover				
Multipathing with storage port failover				
Microsoft Clustering support ¹				
Boot from SAN				
Basic connectivity				
Multipathing with HBA failover				
Multipathing with storage port failover				
Microsoft Clustering support				
Boot from SAN				
Basic connectivity				
Multipathing with HBA failover				
Multipathing with storage port failover				
Microsoft Clustering support				
Boot from SAN				
PROVIGO 550F		X	X	X

Table 27. Xiotech

	ESX Server 3.0				ESX Server 3.0.1				ESX Server 3.0.2				ESX Server 3.0.3							
	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support ¹	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN
Magnitude 3D 3000 ^{2,4}	X	X	X	X ³	X	X	X	X	X ³	X	X	X	X	X ^{1,3}	X	X	X	X	X	X
Magnitude 3D 4000 ⁴	X	X	X		X	X	X	X		X	X	X	X		X	X	X	X		X
See NOTE on page 1 for JBOD support information.																				
¹ MSCS supported with 2Gb HBAs using Qlogic 7.04.00 and Emulex 7.1.14 drivers only. Please refer to http://kb.vmware.com/kb/1560391																				
² Support for 2Gb HBA. Please refer to http://kb.vmware.com/kb/1560391 .																				
³ Supported with 2Gb HBAs using Qlogic 7.04.00 driver only. Please refer to http://kb.vmware.com/kb/1560391 .																				
⁴ Supported with Qlogic 4Gb HBAs only. Please refer to http://kb.vmware.com/kb/10044 .																				

Table 28. Xyratex

	ESX Server 3.0				ESX Server 3.0.1				ESX Server 3.0.2				ESX Server 3.0.3							
	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Microsoft Clustering support	Boot from SAN
F5402E						X	X	X		X	X	X	X		X	X	X	X		X
F5412E											X	X	X		X	X	X	X		X

Storage Virtualization Device (SVD)

VMware supports Storage Virtualization Devices (SVD) with ESX Server 3.0.2 or later.

- Backend storage arrays must be listed on both the *ESX Server 3.x Storage/SAN Compatibility Guide* (http://www.vmware.com/pdf/vi3_san_guide.pdf) and the SVD Vendor supported list.
- Do not share the same LUN of the backend storage array between SVD and any other host.

This section contains information on storage virtualization devices from the following vendors:

- “EMC Invista,” on page 36
- “Hewlett Packard,” on page 37
- “Hitachi, Ltd.,” on page 38
- “Hitachi Data Systems (HDS),” on page 39
- “IBM,” on page 39
- “NetApp,” on page 40
- “Nihon Unisys, Ltd.,” on page 40
- “Sun,” on page 41

Table 29. EMC Invista

	ESX Server 3.0.2				ESX Server 3.0.3			
	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Boot from SAN
Brocade ^{1, 2, 3, 4, 5}	X	X	X	X	X	X	X	X
Cisco ^{1, 2, 3, 5}	X	X	X	X	X	X	X	X

¹ This Storage Virtualization Device is supported with Qlogic HBAs only.

² In an environment where RDM is used in back-end storage, special caution must be taken after RDM migration. Please see KB 1002564 for further details: <http://kb.vmware.com/kb/1002564>.

³ ESX Server 3.0.2 Patches ESX-1002431 (11/30/2007) and ESX-1002974 (1/2/2008) are required for ESX Server 3.0.2.

Table 29. EMC Invista

	ESX Server 3.0.2		ESX Server 3.0.3	
	Basic connectivity Multipathing with HBA failover	Multipathing with storage port failover	Basic connectivity Multipathing with HBA failover	Multipathing with storage port failover Boot from SAN
⁴	Contact EMC for Non Disruptive Upgrade (NDU) procedure for Invista firmware upgrade.			
⁵	Contact EMC for supported Brocade switches, Invista patch level, and Data Path Controllers.			

Table 30. Hewlett Packard

		ESX Server 3.0.2				ESX Server 3.0.3			
		Basic connectivity Multipathing with HBA failover	Multipathing with storage port failover	Boot from SAN	Basic connectivity Multipathing with HBA failover	Multipathing with storage port failover	Boot from SAN		
HP XP	20000 ¹	X	X	X	X	X	X	X	X
	24000 ¹	X	X	X	X	X	X	X	X
¹ In an environment where RDM is used in back-end storage, special caution must be taken after RDM migration. Please see KB 1002564 for further details: http://kb.vmware.com/kb/1002564 .									

Table 31. Hitachi, Ltd.

		ESX Server 3.0.2				ESX Server 3.0.3			
		Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Boot from SAN
SANRISE	NSC 55 ^{1,2}	X	X	X	X	X	X	X	X
	USP 100 ^{1,2}	X	X	X	X	X	X	X	X
	USP 600 ^{1,2}	X	X	X	X	X	X	X	X
	USP 1100 ^{1,2}	X	X	X	X	X	X	X	X
	USP V ¹	X	X	X	X	X	X	X	X
	USP VM ¹	X	X	X	X	X	X	X	X
¹ In an environment where RDM is used in back-end storage, special caution must be taken after RDM migration. Please see KB 1002564 for further details: http://kb.vmware.com/kb/1002564 .									
² Please refer to http://kb.vmware.com/kb/1005009 .									

Table 32. Hitachi Data Systems (HDS)

		ESX Server 3.0.2					ESX Server 3.0.3			
		Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Boot from SAN	
TagmaStore	NSC 55 ^{1,2}	X	X	X	X	X	X	X	X	X
	USP 100 ^{1,2}	X	X	X	X	X	X	X	X	X
	USP 600 ^{1,2}	X	X	X	X	X	X	X	X	X
	USP 1100 ^{1,2}	X	X	X	X	X	X	X	X	X
	USP V ¹	X	X	X	X	X	X	X	X	X
	USP VM ¹	X	X	X	X	X	X	X	X	X

¹ In an environment where RDM is used in back-end storage, special caution must be taken after RDM migration. Please see KB 1002564 for further details: <http://kb.vmware.com/kb/1002564>.

² Please refer to <http://kb.vmware.com/kb/1005009>.

Table 33. IBM

	ESX Server 3.0.2					ESX Server 3.0.3			
	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Boot from SAN	
SVC ²	X ¹	X ¹	X ¹	X ¹	X	X	X	X	

¹ Patch required. Please see KB 1003270 for further details: <http://kb.vmware.com/kb/1003270>

² In an environment where RDM is used in back-end storage, special caution must be taken after RDM migration. Please see KB 1002564 for further details: <http://kb.vmware.com/kb/1002564>.

Table 34. NetApp

	ESX Server 3.0.2				ESX Server 3.0.3			
	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Boot from SAN
V3000 Series Data ONTAP 7.2.4 ²	X ^{1,3}	X ^{1,3}	X ^{1,3}	X ^{1,3}	X	X	X	X
V6000 Series Data ONTAP 7.2.4 ²	X ^{1,3}	X ^{1,3}	X ^{1,3}	X ^{1,3}	X	X	X	X

¹ This Storage Virtualization Device is supported with Qlogic HBAs only.

² In an environment where RDM is used in back-end storage, special caution must be taken after RDM migration. Please see KB 1002564 for further details: <http://kb.vmware.com/kb/1002564>.

³ ESX Server 3.0.2 Patch ESX-1002974 is required.

Table 35. Nihon Unisys, Ltd.

	ESX Server 3.0.2				ESX Server 3.0.3			
	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Boot from SAN
SANARENA	5200 ¹	X	X	X	X	X	X	X
	5800 ¹	X	X	X	X	X	X	X

¹ In an environment where RDM is used in back-end storage, special caution must be taken after RDM migration. Please see KB 1002564 for further details: <http://kb.vmware.com/kb/1002564>.

Table 36. Sun

		ESX Server 3.0.2				ESX Server 3.0.3			
		Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Boot from SAN	Basic connectivity	Multipathing with HBA failover	Multipathing with storage port failover	Boot from SAN
StorageTek	9985 ^{1, 2}	X	X	X	X	X	X	X	X
	9985V ^{1, 3}	X	X	X	X	X	X	X	X
	9990 ^{1, 2}	X	X	X	X	X	X	X	X
	9990V ¹	X	X	X	X	X	X	X	X

¹ In an environment where RDM is used in back-end storage, special caution must be taken after RDM migration. Please see KB 1002564 for further details: <http://kb.vmware.com/kb/1002564>.

² Please refer to <http://kb.vmware.com/kb/1005009>.

³ ESX Server 3.0.2 Update 1 is required for ESX Server 3.0.2.

Network Attached Storage

This section contains information on the support for network attached storage with ESX Server software.

NOTE MSCS clustering is not supported with NAS.

The following sections are included:

- [“Supported Linux Distributions”](#) on page 41
- [“Supported Storage Devices”](#) on page 42

Supported Linux Distributions

The following Linux distributions support network attached storage when used with ESX Server 3.x software:

- Red Hat Enterprise Linux 3 NFS Server (Update 5).
- Fedora Core 4 NFS Server (2.6.12-1.1456_FC4.9550smp).
- Fedora Core 6 NFS Server (2.6.18-1.2798.fc6 #1 SMP) for ESX Server 3.5 only.

Supported Storage Devices

This section lists all of the supported devices for network attached storage with ESX Server 3.x software from the following vendors:

- [“Adaptec,”](#) on page 42
- [“Fujitsu,”](#) on page 42
- [“IBM”](#) on page 43
- [“Isilon Systems,”](#) on page 43
- [“NetApp”](#) on page 43
- [“EMC”](#) on page 44

Table 37. Adaptec

	ESX Server 3.0	ESX Server 3.0.1	ESX Server 3.0.2	ESX Server 3.0.3
Snap Server 520			X	X

Table 38. Fujitsu

		ESX Server 3.0	ESX Server 3.0.1	ESX Server 3.0.2	ESX Server 3.0.3
ETERNUS NR1000F Series ¹ (F540, F980)	Data ONTAP 6.5.3P4 and later	X	X	X	X
ETERNUS NR1000F Series ¹ (F2020, F2050)	Data ONTAP 7.2.2 and later		X	X	X
ETERNUS NR1000F Series ¹ (F170, F240, F250, F270)	Data ONTAP 7.0 and later	X	X	X	X
ETERNUS NR1000F Series ¹ (F350, F510, F3020, F3050)	Data ONTAP 7.0.4 and later	X	X	X	X
ETERNUS NR1000F Series ¹ (F350, F510, F3020, F3040, F3050, F3070)	Data ONTAP 7.2 and later		X	X	X
ETERNUS NR1000F Series ¹ (F6030, F6070)	Data ONTAP 7.2 and later		X	X	X

¹ Contact Fujitsu, Japan for supported ONTAP versions.

Table 39. IBM

		ESX Server 3.0	ESX Server 3.0.1	ESX Server 3.0.2	ESX Server 3.0.3
N3700	Data ONTAP 7.2	X	X	X	X
N5000 Series ¹	Data ONTAP 7.2	X	X	X	X
N7000 Series ¹	Data ONTAP 7.2		X	X	X
¹ Supports internal storage only.					

Table 40. Isilon Systems

	ESX Server 3.0	ESX Server 3.0.1	ESX Server 3.0.2	ESX Server 3.0.3
IQ1920 Cluster	X	X	X	
IQ3000x	X	X	X	
IQ6000x	X	X	X	
IQ9000x	X	X	X	
IQ12000x	X	X	X	
¹ Supports internal storage only.				

Table 41. NetApp

		ESX Server 3.0	ESX Server 3.0.1	ESX Server 3.0.2	ESX Server 3.0.3
FAS900 Series (920, 940, 960, 980)	Data ONTAP 6.5.3P4	X	X	X	X
FAS200 Series (250, 270)	Data ONTAP 7.0	X	X	X	X
FAS2000 Series	Data ONTAP 7.2.2		X	X	X
FAS3000 Series	Data ONTAP 7.0.4	X	X	X	X
	Data ONTAP 7.2		X	X	X
FAS6000 Series	Data ONTAP 7.2		X	X	X
StoreVault S500	Data ONTAP SVE 7.0.354	X	X	X	X

Table 42. EMC

	ESX Server 3.0	ESX Server 3.0.1	ESX Server 3.0.2	ESX Server 3.0.3
Celerra NS 500/700 series, CNS, and NSX DART version 5.4	X	X	X	X
Celerra NS 20/40/80 series, NS 350, NS 500/700 series, CNS, and NSX DART version 5.5		X	X	X

NOTE Celerra models noted are family names and cover all model numbers and model types (integrated and gateway) within the family.

iSCSI

VMware supports the iSCSI Storage listed in this section.

The following maximums are in place when using iSCSI arrays with ESX Server hosts:

Table 43. Storage parameter maximums with iSCSI Arrays

Parameter	Initiator type used	Limit
Number of HBAs	software	1
	hardware	1 dual port or 2 single port
Maximum number of targets	both software and hardware initiator	64
Number of LUNs	both software and hardware initiator	254
Number of paths to storage	software	4
	hardware	8

VMware supports connections to iSCSI arrays using either the software initiator in the kernel or a hardware initiator (iSCSI HBA). Please refer to the *I/O Compatibility Guide* at http://www.vmware.com/pdf/vi3_io_guide.pdf for a list of hardware initiators that can be used with ESX.

The following configurations are supported for iSCSI storage with the software initiator over a supported NIC:

- **iSCSI Base Connectivity** – The ability of an ESX Server host to recognize the target and interoperate with it.
- **SP failover** – In this configuration the ESX Server host is attached to multiple ports and is robust to storage port failover
- **NIC failover for software initiator** – If the Ethernet adapters are teamed and one fails, the other one takes over. Both adapters must be connected to the same physical switch and be on the same subnet (both NICs and iSCSI storage ports).

The following configurations are supported for iSCSI storage with hardware initiators:

- **iSCSI Base Connectivity** – The ability of an ESX Server host to recognize the target over an iSCSI HBA and interoperate with it.
- **SP failover** – In this configuration, ESX Server host is attached to multiple ports over an iSCSI HBA and is robust to storage port failover.
- **Boot from iSCSI** – In this configuration, ESX Server hosts boot from the target iSCSI array rather than from a local disk.
- **iSCSI hardware initiator failover** – The ESX server host is equipped with multiple hardware initiators and is robust to hardware initiator failover.

NOTE Clustering is not supported with iSCSI.

NOTE Software initiated iSCSI is supported fully in ESX 3.0 and later releases. Hardware initiated iSCSI is supported in experimental mode only in ESX 3.0. It is supported fully in ESX 3.0.1 with iSCSI arrays that have been qualified/certified for use with the hardware initiators.

iSCSI Storage devices from the following manufactures have been tested for the stated release of ESX Server 3.x:

- [“3PAR,”](#) on page 46
- [“Adaptec,”](#) on page 47
- [“Agami,”](#) on page 47
- [“BlueArc Corp,”](#) on page 48
- [“Compellent”](#) on page 48
- [“Dell”](#) on page 49
- [“EMC”](#) on page 50
- [“EqualLogic”](#) on page 52
- [“FalconStor,”](#) on page 53
- [“Fujitsu,”](#) on page 53
- [“Fujitsu Siemens”](#) on page 54
- [“Hitachi Ltd.,”](#) on page 56

- [“Hitachi Data Systems \(HDS\),”](#) on page 56
- [“Hewlett Packard”](#) on page 57
- [“IBM”](#) on page 59
- [“Intransa,”](#) on page 60
- [“iStor Networks,”](#) on page 60
- [“LeftHand Networks”](#) on page 61
- [“NetApp”](#) on page 63
- [“Newtech”](#) on page 64
- [“Pillar Data Systems,”](#) on page 65
- [“Sanrad,”](#) on page 65
- [“Sun Microsystems,”](#) on page 66
- [“Xiotech,”](#) on page 66

Table 44. 3PAR

	ESX Server 3.0			ESX Server 3.0.1			ESX Server 3.0.2			ESX Server 3.0.3				
	iSCSI software initiator		iSCSI hardware initiator	iSCSI software initiator		iSCSI hardware initiator	iSCSI software initiator		iSCSI hardware initiator	iSCSI software initiator		iSCSI hardware initiator		
	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover	Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover	Boot from iSCSI iSCSI hardware initiator failover
E200			X	X	X				X	X	X			
S400			X	X	X				X	X	X			
S800			X	X	X				X	X	X			

Table 45. Adaptec

	ESX Server 3.0				ESX Server 3.0.1				ESX Server 3.0.2				ESX Server 3.0.3			
	iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator	
	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover
SnapServer 720i ¹			X		X		X	X	X	X		X		X	X	X
SnapServer 730i ¹			X		X		X	X	X			X		X	X	X
SnapServer 750i ¹			X		X		X	X	X			X		X	X	X

¹ Supported with storage port failover only.

Table 46. Agami

	ESX Server 3.0				ESX Server 3.0.1				ESX Server 3.0.2				ESX Server 3.0.3			
	iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator	
	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover
AIS 1006 ¹			X		X					X		X		X		X
AIS 3000 ¹			X		X					X		X		X		X
AIS 6000 ¹			X		X					X		X		X		X

¹ SP failover is not supported. Only SP port failover is supported.

Table 47. BlueArc Corp

	ESX Server 3.0			ESX Server 3.0.1			ESX Server 3.0.2			ESX Server 3.0.3					
	iSCSI software initiator			iSCSI hardware initiator			iSCSI software initiator			iSCSI hardware initiator					
	iSCSI Base Connectivity	SP failover	NIC failover for software initiator	iSCSI Base	SP failover	Boot from iSCSI	iSCSI hardware	iSCSI Base Connectivity	SP failover	NIC failover for software initiator	iSCSI Base	SP failover	Boot from iSCSI	iSCSI hardware	
Titan 1100							X						X		
Titan 2100							X						X		
Titan 2200							X						X		

Table 48. Compellent

	ESX Server 3.0			ESX Server 3.0.1			ESX Server 3.0.2			ESX Server 3.0.3					
	iSCSI software initiator			iSCSI hardware initiator			iSCSI software initiator			iSCSI hardware initiator					
	iSCSI Base Connectivity	SP failover	NIC failover for software initiator	iSCSI Base	SP failover	Boot from iSCSI	iSCSI hardware	iSCSI Base Connectivity	SP failover	NIC failover for software initiator	iSCSI Base	SP failover	Boot from iSCSI	iSCSI hardware	
Storage Center	X	X	X				X	X	X	X	X	X	X	X	X

Table 49. Dell

	ESX Server 3.0				ESX Server 3.0.1				ESX Server 3.0.2				ESX Server 3.0.3									
	iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator							
	iSCSI Base Connectivity	SP failover	NIC failover for software initiator	iSCSI Base	SP failover	Boot from iSCSI	iSCSI hardware	iSCSI Base Connectivity	SP failover	NIC failover for software initiator	iSCSI Base	SP failover	Boot from iSCSI	iSCSI hardware	iSCSI Base Connectivity	SP failover	NIC failover for software initiator	iSCSI Base	SP failover	Boot from iSCSI	iSCSI hardware	
AX100i FLARE 02.19.100.5.07	X		X	X		X ^{1,2}	X ²	X		X				X		X						
AX150i ³	X		X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CX3-10c ³	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CX3-20c ³	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CX3-40c ³	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CX300i FLARE 02.19.500.5.109	X	X ²	X	X	X ²	X ²	X ²	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CX500i FLARE 02.19.500.5.109	X	X ²	X	X	X ²	X ²	X ²	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MD3000i ³																						
NX1950								X	X	X				X	X	X			X	X	X	
PS5000E ⁵								X	X	X	X	X ⁴	X	X	X	X	X ⁴	X	X	X	X	X
PS5000X ⁵								X	X	X	X	X ⁴	X	X	X	X	X ⁴	X	X	X	X	X
PS5000XV ⁵								X	X	X	X	X ⁴	X	X	X	X	X ⁴	X	X	X	X	X
¹ SP/datamover or cluster failover is not supported during boot from iSCSI.																						
² iSCSI hardware initiator support is experimental only.																						
³ Contact Dell for additional information including supported array firmware versions.																						
⁴ Contact Dell for timeout value settings for proper SP failover operation.																						
⁵ Firmware version 3.2.																						

Table 50. EMC

	ESX Server 3.0				ESX Server 3.0.1				ESX Server 3.0.2				ESX Server 3.0.3			
	iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator	
	iSCSI Base	SP failover NIC failover for	iSCSI Base	SP failover Boot from iSCSI iSCSI hardware	iSCSI Base	SP failover NIC failover for	iSCSI Base	SP failover Boot from iSCSI iSCSI hardware	iSCSI Base	SP failover NIC failover for	iSCSI Base	SP failover Boot from iSCSI iSCSI hardware	iSCSI Base	SP failover NIC failover for	iSCSI Base	SP failover Boot from iSCSI iSCSI hardware
AX100i FLARE 02.19.100.5.07	X	X	X	X ^{1,2} X ²	X	X			X	X			X	X		
AX150i ³	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X
CX3-10c ³	X	X	X		X	X ⁴	X	X	X	X	X ⁵	X	X	X	X	X
CX3-20c ³	X	X	X		X	X ⁴	X	X	X	X	X ⁵	X	X	X	X	X
CX3-40c ³	X	X	X		X	X ⁴	X	X	X	X	X ⁵	X	X	X	X	X
CX300i FLARE 02.19.500.5.109	X	X ²	X	X	X ²	X ²	X ²	X	X ⁴	X	X	X	X	X ⁵	X	X
CX4-120					X ⁴	X ⁴	X ⁴			X ⁵	X ⁵	X ⁵				
CX4-240					X ⁴	X ⁴	X ⁴			X ⁵	X ⁵	X ⁵				
CX4-480					X ⁴	X ⁴	X ⁴			X ⁵	X ⁵	X ⁵		X	X	X
CX4-960					X ⁴	X ⁴	X ⁴			X ⁵	X ⁵	X ⁵				
CX500i FLARE 02.19.500.5.109	X	X ²	X	X	X ²	X ²	X ²	X	X ⁴	X	X	X	X	X ⁵	X	X
Celerra 500/700 series, CNS, and NSX DART 5.4	X		X	X	X ^{1,2}	X ²	X	X			X	X		X	X	
Celerra NS 20/40/80 series, NS 350, NS 500/700 series, CNS, and NSX DART 5.5					X	X	X	X	X	X ¹	X	X	X	X	X	X

Table 50. EMC (Continued)

	ESX Server 3.0				ESX Server 3.0.1				ESX Server 3.0.2				ESX Server 3.0.3				
	iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator		
	iSCSI Base	SP failover NIC failover for	iSCSI Base	SP failover Boot from iSCSI iSCSI hardware	iSCSI Base	SP failover NIC failover for	iSCSI Base	SP failover Boot from iSCSI iSCSI hardware	iSCSI Base	SP failover NIC failover for	iSCSI Base	SP failover Boot from iSCSI iSCSI hardware	iSCSI Base	SP failover NIC failover for	iSCSI Base	SP failover Boot from iSCSI iSCSI hardware	
DMX-3 ³					X	X	X			X	X	X			X	X	X
DMX-4 ³					X	X	X			X	X	X			X	X	X
¹ SP/datamover or cluster failover is not supported during boot from iSCSI.																	
² iSCSI hardware initiator support is experimental only.																	
³ Contact EMC for additional information including supported array firmware versions.																	
⁴ Requires patch ESX-1002097																	
⁵ Requires patch ESX-1002429																	

Table 51. EqualLogic

		ESX Server 3.0				ESX Server 3.0.1				ESX Server 3.0.2				ESX Server 3.0.3				
		iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator		
		iSCSI Base SP failover NIC failover for		iSCSI Base SP failover Boot from iSCSI iSCSI hardware		iSCSI Base SP failover NIC failover for		iSCSI Base SP failover Boot from iSCSI iSCSI hardware		iSCSI Base SP failover NIC failover for		iSCSI Base SP failover Boot from iSCSI iSCSI hardware		iSCSI Base SP failover NIC failover for		iSCSI Base SP failover Boot from iSCSI iSCSI hardware		
PS Series ¹	PS50E					X	X	X	X	X	X	X	X	X	X	X	X	X
	PS70E					X	X	X	X	X	X	X	X	X	X	X	X	X
	PS100E					X	X	X	X	X ²	X	X	X	X	X	X	X	X
	PS300E					X	X	X	X	X ²	X	X	X	X	X	X	X	X
	PS400E					X	X	X	X	X ²	X	X	X	X	X	X	X	X
	PS3600X					X	X	X	X	X ²	X	X	X	X	X	X	X	X
	PS3700X					X	X	X	X	X ²	X	X	X	X	X	X	X	X
	PS3800XV					X	X	X	X	X ²	X	X	X	X	X	X	X	X
	PS3900XV					X	X	X	X	X ²	X	X	X	X	X	X	X	X
¹ V3.1 and later versions. Contact EqualLogic for supported firmware versions.																		
² Contact EqualLogic for timeout value settings for proper SP failover operation.																		

Table 53. Fujitsu

	ESX Server 3.0				ESX Server 3.0.1				ESX Server 3.0.2				ESX Server 3.0.3			
	iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator	
	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover	Boot from iSCSI initiator failover	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover	Boot from iSCSI initiator failover	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover	Boot from iSCSI initiator failover	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover	Boot from iSCSI initiator failover
ETERNUS 8000	700								X	X	X			X	X	X
	900								X	X	X			X	X	X
	1100								X	X	X			X	X	X
	2100								X	X	X			X	X	X

Table 54. Fujitsu Siemens

	ESX Server 3.0				ESX Server 3.0.1				ESX Server 3.0.2				ESX Server 3.0.3			
	iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator	
	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover	Boot from iSCSI initiator failover	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover	Boot from iSCSI initiator failover	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover	Boot from iSCSI initiator failover	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover	Boot from iSCSI initiator failover
AX100i FLARE 02.19.100.5.07	X	X	X	X ¹ , X ²	X	X			X	X			X	X		
CX300i FLARE 02.19.500.5.109	X ²	X	X ²	X ²	X ²	X	X	X	X	X	X	X	X	X	X	X
CX500i FLARE 02.19.500.5.109	X	X ²	X	X	X ²	X ²	X ²	X	X	X	X	X	X	X	X	X

Table 54. Fujitsu Siemens (Continued)

	ESX Server 3.0						ESX Server 3.0.1						ESX Server 3.0.2						ESX Server 3.0.3						
	iSCSI software initiator			iSCSI hardware initiator			iSCSI software initiator			iSCSI hardware initiator			iSCSI software initiator			iSCSI hardware initiator			iSCSI software initiator			iSCSI hardware initiator			
	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover	Boot from iSCSI	iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover	Boot from iSCSI	iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover	Boot from iSCSI	iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover	Boot from iSCSI	iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover	Boot from iSCSI	iSCSI hardware initiator failover
FibreCAT CX3-10c ³	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
FibreCAT CX3-20c ³	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
FibreCAT CX3-40c ³	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
FibreCAT CX4-120						X ⁴	X ⁴	X ⁴				X ⁵	X ⁵	X ⁵				X	X	X					
FibreCAT CX4-240						X ⁴	X ⁴	X ⁴				X ⁵	X ⁵	X ⁵				X	X	X					
FibreCAT CX4-480						X ⁴	X ⁴	X ⁴				X ⁵	X ⁵	X ⁵				X	X	X					
FibreCAT CX4-960						X ⁴	X ⁴	X ⁴				X ⁵	X ⁵	X ⁵				X	X	X					
¹ SP/datamover or cluster failover is not supported during boot from iSCSI.																									
² iSCSI hardware initiator support is experimental only.																									
³ Contact Fujitsu Siemens for additional information including supported array firmware versions.																									
⁴ Requires patch ESX-1002097.																									
⁵ Requires patch ESX-1002429.																									

Table 55. Hitachi Ltd.

	ESX Server 3.0				ESX Server 3.0.1				ESX Server 3.0.2				ESX Server 3.0.3								
	iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator						
	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover					
AMS 200									X	X ²	X ²	X	X	X	X	X ²	X ²	X	X	X	
AMS 500									X	X ²	X ²	X	X	X	X	X ²	X ²	X	X	X	
AMS 1000									X	X ²	X ²	X	X	X	X	X ²	X ²	X	X	X	
SMS100 ¹					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WMS 100									X	X ²	X ²	X	X	X	X	X ²	X ²	X	X	X	
¹ Dual storage controller models only.																					
² Linux guest operating system with virtual LSILogic is not supported.																					

Table 56. Hitachi Data Systems (HDS)

	ESX Server 3.0				ESX Server 3.0.1				ESX Server 3.0.2				ESX Server 3.0.3								
	iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator						
	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover					
AMS 200																					
AMS 500									X	X ²	X ²	X	X	X	X	X ²	X ²	X	X	X	
AMS 1000									X	X ²	X ²	X	X	X	X	X ²	X ²	X	X	X	
¹ Dual storage controller models only.																					
² Linux guest operating system with virtual LSILogic is not supported.																					

Table 56. Hitachi Data Systems (HDS) (Continued)

	ESX Server 3.0				ESX Server 3.0.1				ESX Server 3.0.2				ESX Server 3.0.3			
	iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator	
	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover	Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover	Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover	Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover	Boot from iSCSI iSCSI hardware initiator failover
HNAS Server 2200					X				X				X			
SMS100 ¹					X	X	X	X	X	X	X	X	X	X	X	X
WMS 100									X	X ²	X ²	X	X	X ²	X ²	X

¹ Dual storage controller models only.
² Linux guest operating system with virtual LSILogic is not supported.

Table 57. Hewlett Packard

	ESX Server 3.0				ESX Server 3.0.1				ESX Server 3.0.2				ESX Server 3.0.3			
	iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator	
	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover	Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover	Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover	Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover	Boot from iSCSI iSCSI hardware initiator failover
AiO 400 ^{1, 2}					X	X			X	X			X	X		
AiO 600 ^{1, 2}					X	X			X	X			X	X		
AiO 1200 ^{1, 2}					X	X			X	X			X	X		
AiO SB600c ^{1, 2}					X	X			X	X			X	X		
EVA 4000 ²					X	X	X		X	X	X		X	X	X	
EVA 6000 ²					X	X	X		X	X	X		X	X	X	
EVA 8000 ²					X	X	X		X	X	X		X	X	X	
MSA1510i ^{1, 5}					X ⁴	X ⁴			X ⁴	X ⁴			X	X		

Table 57. Hewlett Packard (Continued)

	ESX Server 3.0				ESX Server 3.0.1				ESX Server 3.0.2				ESX Server 3.0.3					
	iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator			
	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover	Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover	Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover	Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover	Boot from iSCSI iSCSI hardware initiator failover		
MSA2012i					X ⁴	X ⁴	X ⁴				X	X	X			X	X	X
ProLiant DL380 G5 Storage Server ^{1, 2}											X ³		X ³			X		X
ProLiant DL585 G2 Storage Server ^{1, 2}											X ³		X ³			X		X
¹ Single Controller only.																		
² Support for Virtual LSI Logic only.																		
³ ESX Server 3.0.2 Update 1 is required.																		
⁴ Requires patches with release dates up to November 3rd 2007 or later for ESX Server 3.0.1.																		
⁵ Support for Windows guest operating system only.																		

Table 58. IBM

	ESX Server 3.0				ESX Server 3.0.1				ESX Server 3.0.2				ESX Server 3.0.3			
	iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator	
	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover	Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover	Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover	Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover	Boot from iSCSI iSCSI hardware initiator failover
N3300 Data ONTAP 7.0								X	X	X	X		X	X	X	X
N3600 Data ONTAP 7.0								X	X	X	X		X	X	X	X
N3700 Data ONTAP 7.0	X	X ³	X	X	X ³	X ^{2,3}	X ³	X	X ³	X		X	X ³	X		
N5000 Series ¹ Data ONTAP 7.2 RC2								X	X	X	X	X	X	X	X	X
¹ Supports internal storage only.																
² SP/datamover or cluster failover is not supported during boot from iSCSI.																
³ iSCSI hardware initiator support is experimental only.																

Table 59. Intransa

	ESX Server 3.0		ESX Server 3.0.1		ESX Server 3.0.2		ESX Server 3.0.3	
	iSCSI software initiator	iSCSI hardware initiator	iSCSI software initiator	iSCSI hardware initiator	iSCSI software initiator	iSCSI hardware initiator	iSCSI software initiator	iSCSI hardware initiator
	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover
EdgeBlock			X	X			X	X
StorStac-PCU20			X	X	X		X	X
StorStac-PCU25			X	X	X		X	X

Table 60. iStor Networks

	ESX Server 3.0		ESX Server 3.0.1		ESX Server 3.0.2		ESX Server 3.0.3	
	iSCSI software initiator	iSCSI hardware initiator	iSCSI software initiator	iSCSI hardware initiator	iSCSI software initiator	iSCSI hardware initiator	iSCSI software initiator	iSCSI hardware initiator
	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover
AT316			X		X ¹		X	
iS325			X		X		X	
iS512			X	X	X	X	X	X

¹ ESX Server 3.0.2 Update 1.

Table 61. LeftHand Networks

	ESX Server 3.0			ESX Server 3.0.1				ESX Server 3.0.2				ESX Server 3.0.3				
	iSCSI software initiator		iSCSI hardware initiator	iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator		
	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover	Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover	Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover	Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover	Boot from iSCSI iSCSI hardware initiator failover
Dell 2950 and SAN/iQ® 7			X	X	X			X	X	X			X	X	X	
HP® ProLiant DL320s and SAN/iQ® 6.6			X	X	X	X	X	X	X	X	X	X	X	X	X	X
HP® ProLiant DL320s and SAN/iQ® 7			X	X	X			X	X	X			X	X	X	
HP® ProLiant DL380 and SAN/iQ® 6.6			X	X	X			X	X	X			X	X	X	
HP® ProLiant DL380 and SAN/iQ® 7			X	X	X			X	X	X			X	X	X	
IBM x3650 and SAN/iQ® 6.6			X	X	X	X	X	X	X	X	X	X	X	X	X	X
IBM x3650 and SAN/iQ® 7			X	X	X			X	X	X			X	X	X	
NSM 160 and SAN/iQ® 6.6			X	X	X			X	X	X			X	X	X	
NSM 260 and SAN/iQ® 6.6			X	X	X			X	X	X			X	X	X	
NSM 2060 and SAN/iQ® 7			X	X	X			X	X	X			X	X	X	
NSM 2120 and SAN/iQ® 7			X	X	X			X	X	X			X	X	X	

Table 61. LeftHand Networks (Continued)

	ESX Server 3.0		ESX Server 3.0.1		ESX Server 3.0.2		ESX Server 3.0.3	
	iSCSI software initiator	iSCSI hardware initiator	iSCSI software initiator	iSCSI hardware initiator	iSCSI software initiator	iSCSI hardware initiator	iSCSI software initiator	iSCSI hardware initiator
NSM 4150 and SAN/iQ® 7	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover
			X X X		X X X		X X X	

Table 62. NetApp

	ESX Server 3.0				ESX Server 3.0.1				ESX Server 3.0.2				ESX Server 3.0.3										
	iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator		iSCSI software initiator		iSCSI hardware initiator								
	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover	Boot from iSCSI initiator failover	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover	Boot from iSCSI initiator failover	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover	Boot from iSCSI initiator failover	iSCSI Base Connectivity SP failover	NIC failover for software initiator	iSCSI Base Connectivity SP failover	Boot from iSCSI initiator failover							
FAS200 Series (250/270) Data ONTAP 7.0	X	X ²	X	X	X ²	X ^{1, 2}	X ²	X	X ²	X	X	X	X	X	X	X	X	X ²	X	X	X	X	
FAS200 Series Data ONTAP 7.2.1									X	X	X	X					X	X	X	X	X	X	
FAS900 Series (920, 940, 960, 980) Data ONTAP 6.5.3 P4	X	X ²	X	X	X ²	X ^{1, 2}	X ²	X	X ²	X	X	X					X	X ²	X	X	X	X	
FAS2000 Series Data ONTAP 7.2.1									X	X	X	X					X	X	X	X	X	X	
FAS2000 Series Data ONTAP 7.2.2									X	X	X						X	X	X				
FAS3000 Series Data ONTAP 7.0.4	X	X	X	X	X	X ¹	X	X	X	X	X	X ¹	X	X	X	X	X	X	X	X	X	X ¹	X
FAS3000 Series Data ONTAP 7.2RC4									X	X	X	X ¹	X	X	X	X	X	X	X	X	X	X ¹	X
FAS6000 Series Data ONTAP 7.2.1									X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Table 62. NetApp (Continued)

	ESX Server 3.0		ESX Server 3.0.1		ESX Server 3.0.2		ESX Server 3.0.3		
	iSCSI software initiator	iSCSI hardware initiator	iSCSI software initiator	iSCSI hardware initiator	iSCSI software initiator	iSCSI hardware initiator	iSCSI software initiator	iSCSI hardware initiator	
	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI initiator failover
StoreVault S300 Data ONTAP 7.2.1					X	X	X	X	
StoreVault S500 Data ONTAP SVE 7.0.354	X	X	X	X	X	X	X	X	
¹ SP/datamover or cluster failover is not supported during boot from iSCSI.									
² iSCSI hardware initiator support is experimental only									

Table 63. Newtech

	ESX Server 3.0		ESX Server 3.0.1		ESX Server 3.0.2		ESX Server 3.0.3	
	iSCSI software initiator	iSCSI hardware initiator	iSCSI software initiator	iSCSI hardware initiator	iSCSI software initiator	iSCSI hardware initiator	iSCSI software initiator	iSCSI hardware initiator
	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover NIC failover for software initiator
AQUILIA N108 G10			X		X ¹		X	
¹ ESX Server 3.0.2 Update 1.								

Table 64. Pillar Data Systems

	ESX Server 3.0		ESX Server 3.0.1		ESX Server 3.0.2		ESX Server 3.0.3	
	iSCSI software initiator	iSCSI hardware initiator	iSCSI software initiator	iSCSI hardware initiator	iSCSI software initiator	iSCSI hardware initiator	iSCSI software initiator	iSCSI hardware initiator
	iSCSI Base SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover
Axiom 500			X	X	X	X	X	X

Table 65. Sanrad

	ESX Server 3.0		ESX Server 3.0.1		ESX Server 3.0.2		ESX Server 3.0.3	
	iSCSI software initiator	iSCSI hardware initiator	iSCSI software initiator	iSCSI hardware initiator	iSCSI software initiator	iSCSI hardware initiator	iSCSI software initiator	iSCSI hardware initiator
	iSCSI Base SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover
V-STOR			X		X		X	

Table 66. Sun Microsystems

	ESX Server 3.0		ESX Server 3.0.1		ESX Server 3.0.2		ESX Server 3.0.3		
	iSCSI software initiator	iSCSI hardware initiator	iSCSI software initiator	iSCSI hardware initiator	iSCSI software initiator	iSCSI hardware initiator	iSCSI software initiator	iSCSI hardware initiator	
	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	
StorageTek 5220 NAS Appliance			X	X	X		X	X	X
StorageTek 5320 NAS Appliance			X	X	X		X	X	X

Table 67. Xiotech

	ESX Server 3.0		ESX Server 3.0.1		ESX Server 3.0.2		ESX Server 3.0.3	
	iSCSI software initiator	iSCSI hardware initiator	iSCSI software initiator	iSCSI hardware initiator	iSCSI software initiator	iSCSI hardware initiator	iSCSI software initiator	iSCSI hardware initiator
	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover	iSCSI Base Connectivity SP failover NIC failover for software initiator	iSCSI Base Connectivity SP failover Boot from iSCSI iSCSI hardware initiator failover
Magnitude 3D 3000			X	X	X	X	X	X
Magnitude 750			X	X	X	X	X	X

OEM SAN Array Model Reference

Table 68. SAN Array Model Reference

OEM	Array Type	Mode	Recommended Path Policy	Model String
3PAR	S200	Active-active	Fixed	3PARdata
3PAR	S400	Active-active	Fixed	3PARdata
3PAR	S800	Active-active	Fixed	3PARdata
Adaptec	SnapServer 720i	Active-active	Fixed	iSCSI
Adaptec	SnapServer 730i	Active-active	Fixed	iSCSI
Adaptec	SnapServer 750i	Active-active	Fixed	iSCSI
Agami	AIS 1006	Active-active	Fixed	iSCSI Volume
Agami	AIS 3000	Active-active	Fixed	iSCSI Volume
Agami	AIS 6000	Active-active	Fixed	iSCSI Volume
BlueArc Corp	Titan 1100	Active-active	Fixed	Titan 5.0
BlueArc Corp	Titan 2100	Active-active	Fixed	Titan 5.0
BlueArc Corp	Titan 2200	Active-active	Fixed	Titan 5.0
Bull	FDA1500	Active-active	Fixed	iStorage 1000
Bull	FDA2500	Active-active	Fixed	iStorage 2000
Bull	FDA2800	Active-active	Fixed	iStorage 2000
Bull	FDA2900	Active-active	Fixed	iStorage 2000
Bull	Optima 1200	Active-passive	MRU – Most Recently Used	F5402E
Bull	Optima 5000	Active-active	Fixed	iStorage 1000
Compellent	Storage Center	Active-active	Fixed	Compellent Vol
Dot Hill Systems	R/Evolution 2730	Active-active	Fixed	R/Evolution 2730
Dot Hill Systems	R/Evolution 2730T	Active-active	Fixed	R/Evolution 2730T
EMC (Dell)	AX series	Active-passive	MRU – Most Recently Used	DGC
EMC (Dell)	CX-200 → CX-700	Active-passive	MRU – Most Recently Used	DGC
EMC (Dell)	CX3 series	Active-passive	MRU – Most Recently Used	DGC
EMC (Dell)	Symmetrix series	Active-active	Fixed	Symmetrix
EMC	CX4 series	Active-passive	MRU – Most Recently Used	DGC
EMC	Celerra NS20FC	Active-passive	MRU – Most Recently Used	DGC
EMC	Celerra NS40FC	Active-passive	MRU – Most Recently Used	DGC
EMC	NX4	Active-passive	MRU – Most Recently Used	DGC

Table 68. SAN Array Model Reference (Continued)

OEM	Array Type	Mode	Recommended Path Policy	Model String
EqualLogic	PS Series	Active-active	Fixed	EQLOGIC
EqualLogic	PS3700X	Active-active	Fixed	100E-00
FalconStor	NSS-210	Active-active	Fixed	IPSTOR DISK
FalconStor	NSS-S12	Active-active	Fixed	IPSTOR DISK
Fujitsu	ETERNUS 2000	Active-active	Fixed	E2000
Fujitsu	ETERNUS 3000	Pseudo-active-active	Fixed	E3000
Fujitsu	ETERNUS 4000 Models 300 and 500	Active-active	Fixed	E4000
Fujitsu	ETERNUS 4000 Models 80 and 100	Pseudo-active-active	Fixed	E400A
Fujitsu	ETERNUS 6000	Active-active	Fixed	E6000
Fujitsu	ETERNUS 8000	Active-active	Fixed	E8000
Fujitsu Siemens	FibreCAT CX-series	Active-passive	MRU – Most Recently Used	DGC
Fujitsu Siemens	FibreCAT CX3-series	Active-passive	MRU – Most Recently Used	DGC
Fujitsu Siemens	FibreCAT CX4-series	Active-passive	MRU – Most Recently Used	DGC
Fujitsu Siemens	FibreCAT S80	Pseudo-active	Fixed	EUROLOGC FC2502
Fujitsu Siemens	FibreCAT SX 60	Active-active	Fixed	FibreCAT_SX1
Fujitsu Siemens	FibreCAT SX 80	Active-active	Fixed	FibreCAT_SX1
Fujitsu Siemens	FibreCAT SX 88	Active-active	Fixed	FibreCAT_SX1
Hewlett Packard	EVA3000 v. 3.0	Active-passive	MRU – Most Recently Used	HSV100
Hewlett Packard	EVA3000 v. 4.0	Active-active	Fixed	HSV101
Hewlett Packard	EVA-4000	Active-active	Fixed	HSV200
Hewlett Packard	EVA4400	Active-active	Fixed	HSV300
Hewlett Packard	EVA4400 with Embedded Switch	Active-active	Fixed	HSV300
Hewlett Packard	EVA-5000 v. 3.0	Active-passive	MRU – Most Recently Used	HSV110
Hewlett Packard	EVA-5000 v. 4.0	Active-active	Fixed	HSV111
Hewlett Packard	EVA-6000	Active-active	Fixed	HSV200
Hewlett Packard	EVA-8000	Active-active	Fixed	HSV210
Hewlett Packard	MSA-1000 V4	Active-passive	MRU – Most Recently Used	MSA1000_VOLUME
Hewlett Packard	MSA-1500 V5	Active-passive	MRU – Most Recently Used	MSA1000_VOLUME
Hewlett Packard	MSA-1500 V6	Active-active	Fixed	MSA VOLUME
Hewlett Packard	MSA2012i	Active-active	Fixed	HP_MSA2012i_J200
Hewlett Packard	MSA-2012fc	Active-active	Fixed	MSA2012fc

Table 68. SAN Array Model Reference (Continued)

OEM	Array Type	Mode	Recommended Path Policy	Model String
Hewlett Packard	MSA-2212fc	Active-active	Fixed	MSA2212fc
Hewlett Packard	XP-10000	Active-active	Fixed	OPEN-
Hewlett Packard	XP-1024	Active-active	Fixed	OPEN-
Hewlett Packard	XP-12000	Active-active	Fixed	OPEN-
Hewlett Packard	XP-128	Active-active	Fixed	OPEN-
Hewlett Packard	XP-48	Active-active	Fixed	OPEN-
Hewlett Packard	XP-512	Active-active	Fixed	OPEN-
Hewlett Packard	XP-20000	Active-active	Fixed	OPEN-
Hewlett Packard	XP-24000	Active-active	Fixed	OPEN-
Hitachi, Ltd.	AMS 2100	Active-active	Fixed	
Hitachi, Ltd.	AMS 2300	Active-active	Fixed	
Hitachi, Ltd.	BR 50	Active-passive	MRU/Fixed ¹	
Hitachi, Ltd.	BR 150	Active-passive	MRU/Fixed ¹	
Hitachi, Ltd.	9500V	Active-passive	MRU/Fixed ¹	
Hitachi, Ltd.	9970V	Active-active	Fixed	
Hitachi, Ltd.	9980V	Active-active	Fixed	
Hitachi, Ltd.	AMS1000	Active-passive	MRU/Fixed ¹	
Hitachi, Ltd.	AMS200	Active-passive	MRU/Fixed ¹	
Hitachi, Ltd.	AMS500	Active-passive	MRU/Fixed ¹	
Hitachi, Ltd.	NSC55	Active-active	Fixed	
Hitachi, Ltd.	SMS100	Active-active	MRU/Fixed ¹	
Hitachi, Ltd.	USP100	Active-active	Fixed	
Hitachi, Ltd.	USP1100	Active-active	Fixed	
Hitachi, Ltd.	USP600	Active-active	Fixed	
Hitachi, Ltd.	WMS100	Active-passive	MRU/Fixed ¹	
Hitachi, Ltd.	USP V	Active-active	Fixed	
Hitachi, Ltd.	USP VM	Active-active	Fixed	
Hitachi Data Systems	9970V	Active-active	Fixed	
Hitachi Data Systems	9980V	Active-active	Fixed	

Table 68. SAN Array Model Reference (Continued)

OEM	Array Type	Mode	Recommended Path Policy	Model String
Hitachi Data Systems	AMS1000	Active-passive	MRU/Fixed ¹	
Hitachi Data Systems	AMS200	Active-passive	MRU/Fixed ¹	
Hitachi Data Systems	AMS500	Active-passive	MRU/Fixed ¹	
Hitachi Data Systems	HDS-9500V	Active-passive	MRU/Fixed ¹	
Hitachi Data Systems	HNAS Server 2200	Active-active	Fixed	
Hitachi Data Systems	NSC55	Active-active	Fixed	
Hitachi Data Systems	SMS100	Active-active	MRU/Fixed ¹	
Hitachi Data Systems	USP100	Active-active	Fixed	
Hitachi Data Systems	USP1100	Active-active	Fixed	
Hitachi Data Systems	USP600	Active-active	Fixed	
Hitachi Data Systems	WMS100	Active-passive	MRU/Fixed ¹	
Hitachi Data Systems	USP V	Active-active	Fixed	
Hitachi Data Systems	USP VM	Active-active	Fixed	
IBM	DS3400	Active-passive	MRU – Most Recently Used	1726-4xx
IBM	DS-4000		MRU – Most Recently Used	1814
IBM	DS-4100 or FastT-100	Active-passive	MRU – Most Recently Used	1724-100
IBM	DS4200	Active-passive	MRU – Most Recently Used	1815
IBM	DS-4300 or FastT-600		MRU – Most Recently Used	1722
IBM	DS-4400 or FastT-700		MRU – Most Recently Used	1742
IBM	DS-4500 or FastT-900		MRU – Most Recently Used	1742
IBM	DS4700	Active-passive	MRU – Most Recently Used	1814
IBM	DS-4800		MRU – Most Recently Used	1815

Table 68. SAN Array Model Reference (Continued)

OEM	Array Type	Mode	Recommended Path Policy	Model String
IBM	DS-6000		Fixed	
IBM	DS-8000	Active-active	Fixed	2107900
IBM	ESS 750/80	Active-active	Fixed	
IBM	ESS F10/F20	Active-active	Fixed	
IBM	FastT-200	Active-passive	MRU – Most Recently Used	3542
IBM	FastT-500	Active-passive	MRU – Most Recently Used	3552
IBM	N3000 Series	Active-active	Fixed	LUN
IBM	N5000 Series	Active-active	Fixed	LUN
IBM	N7000 Series	Active-active	Fixed	LUN
IBM	SVC	Active-active	MRU – Most Recently Used	2145
Infotrend Technology Inc.	FF-R4030	Active-passive	MRU – Most Recently Used	FF-R4030
Infotrend Technology Inc.	FF-S4030	Active-passive	MRU – Most Recently Used	FF-S4030
Infotrend Technology Inc.	F16F-R4031	Active-passive	MRU – Most Recently Used	F16F-R4031-6
Infotrend Technology Inc.	F16F-S4031	Active-passive	MRU – Most Recently Used	F16F-S4031
Infotrend Technology Inc.	S16F-G1430	Active-active	MRU – Most Recently Used	S16F-G1430
Infotrend Technology Inc.	S16F-R1430	Active-passive	MRU – Most Recently Used	S16F-R1430
Infotrend Technology Inc.	S12F-R1432	Active-passive	MRU – Most Recently Used	S12F-R1432
Infotrend Technology Inc.	S12F-G1433	Active-passive	MRU – Most Recently Used	S12F-G1433
Infotrend Technology Inc.	B12F-R1430	Active-passive	MRU – Most Recently Used	B12F-R1430
Infotrend Technology Inc.	B12F-G1430	Active-passive	MRU – Most Recently Used	B12F-G1430
Infotrend Technology Inc.	A24F-R2430	Active-passive	MRU – Most Recently Used	A24F-R2430
Infotrend Technology Inc.	A24F-G2430	Active-passive	MRU – Most Recently Used	A24F-G2430

Table 68. SAN Array Model Reference (Continued)

OEM	Array Type	Mode	Recommended Path Policy	Model String
Infotrend Technology Inc.	A16F-R2431	Active-passive	MRU – Most Recently Used	A16F-R2431
Infotrend Technology Inc.	A16F-G2430	Active-passive	MRU – Most Recently Used	A16F-G2430
Infotrend Technology Inc.	A12F-G2422	Active-passive	MRU – Most Recently Used	A12F-G2422
Infotrend Technology Inc.	A08F-G2422	Active-passive	MRU – Most Recently Used	A08F-G2422
Intrinsa	EdgeBlock	Active-active	Fixed	IP SAN
Intrinsa	StorStac-PCU20	Active-active	Fixed	IP SAN
Intrinsa	StorStac-PCU25	Active-active	Fixed	IP SAN
Invista	Brocade	Active-active	MRU – Most Recently Used	Invista
Invista	Cisco	Active-active	MRU – Most Recently Used	Invista
iStor Networks	AT316	Active-active	Fixed	AT316
iStor Networks	iS325	Active-active	Fixed	
iStor Networks	iS512	Active-active	Fixed	iS512
LeftHand Networks	Dell 2950 and SAN/iQ® 7	Active-active	Fixed	iSCSIDisk
LeftHand Networks	HP® ProLiant DL320s and SAN/iQ® 6.6	Active-passive	MRU – Most Recently Used	iSCSIDisk
LeftHand Networks	HP® ProLiant DL320s and SAN/iQ® 7	Active-passive	MRU – Most Recently Used	iSCSIDisk
LeftHand Networks	HP® ProLiant DL380 and SAN/iQ® 6.6	Active-passive	MRU – Most Recently Used	iSCSIDisk
LeftHand Networks	HP® ProLiant DL380 and SAN/iQ® 7	Active-passive	MRU – Most Recently Used	
LeftHand Networks	IBM x3650 and SAN/iQ® 6.6	Active-passive	MRU – Most Recently Used	iSCSIDisk
LeftHand Networks	IBM x3650 and SAN/iQ® 7	Active-passive	MRU – Most Recently Used	iSCSIDisk
LeftHand Networks	NSM 160 and SAN/iQ® 6.6	Active-passive	MRU – Most Recently Used	iSCSIDisk
LeftHand Networks	NSM 260 and SAN/iQ® 6.6	Active-passive	MRU – Most Recently Used	iSCSIDisk

Table 68. SAN Array Model Reference (Continued)

OEM	Array Type	Mode	Recommended Path Policy	Model String
LeftHand Networks	NSM 2060 and SAN/iQ 7	Active-active	Fixed	iSCSIDisk
LeftHand Networks	NSM 2120 and SAN/iQ® 7	Active-active	Fixed	iSCSIDisk
LeftHand Networks	NSM 4150 and SAN/iQ® 7	Active-active	Fixed	iSCSIDisk
NEC	D1-10	Active-active	Fixed	iStorage 1000
NEC	D3-10	Active-active	Fixed	iStorage 1000
NEC	D8	Active-active	Fixed	iStorage 1000
NEC	S1500	Active-active	Fixed	iStorage 1000
NEC	S2500	Active-active	Fixed	iStorage 1000
NEC	S2800	Active-active	Fixed	iStorage 1000
NEC	S2900	Active-active	Fixed	iStorage 2000
NEC	S4900	Active-active	Fixed	iStorage 1000
NEC	S500	Active-active	Fixed	iStorage 1000
NEC	S550	Active-active	Fixed	iStorage 1000
NetApp	FAS200	Active-active	Fixed	LUN
NetApp	FAS250	Active-active	Fixed	LUN
NetApp	FAS270	Active-active	Fixed	LUN
NetApp	FAS900	Active-active	Fixed	LUN
NetApp	FAS920	Active-active	Fixed	LUN
NetApp	FAS940	Active-active	Fixed	LUN
NetApp	FAS960	Active-active	Fixed	LUN
NetApp	FAS980	Active-active	Fixed	LUN
NetApp	FAS2000	Active-active	Fixed	LUN
NetApp	FAS2020	Active-active	Fixed	LUN
NetApp	FAS2050	Active-active	Fixed	LUN
NetApp	FAS3020	Active-active	Fixed	LUN
NetApp	FAS3040	Active-active	Fixed	LUN
NetApp	FAS3050	Active-active	Fixed	LUN
NetApp	FAS3070	Active-active	Fixed	LUN
NetApp	FAS6030	Active-active	Fixed	LUN

Table 68. SAN Array Model Reference (Continued)

OEM	Array Type	Mode	Recommended Path Policy	Model String
NetApp	FAS6070	Active-active	Fixed	LUN
NetApp	V6000 Series Data ONTAP 7.2.4	Active-active		
Newtech	AQULIA N108 G10	Active-active	Fixed	AQULIA N108
Nihon Unisys Ltd	SANARENA 1830	Active-passive	MRU/Fixed ¹	
Nihon Unisys Ltd	SANARENA 1870	Active-passive	MRU/Fixed ¹	
Nihon Unisys Ltd	SANARENA 1890	Active-passive	MRU/Fixed ¹	
Nihon Unisys Ltd	SANARENA 1895	Active-passive	MRU/Fixed ¹	
Nihon Unisys Ltd	SANARENA 18AS	Active-passive	MRU/Fixed ¹	
Nihon Unisys Ltd	SANARENA 5200	Active-active	Fixed	
Nihon Unisys Ltd	SANARENA 5800	Active-active	Fixed	
Overland Storage	ULTAMUS RAID 1200	Active-active	Fixed	XYRATEX
Pillar Data Systems	Axiom 500 HW iSCS	Active-active	Fixed	Axiom 500
Pillar Data Systems	Axiom 300	Active-active	Fixed	Axiom 300
Pillar Data Systems	Axiom 500	Active-active	Fixed	Axiom 500
Sanrad	V-STOR	Active-active	Fixed	V-STOR Volume
SGI	InfiniteStorage 4000	Active-active	Fixed	IS500
Stratus	ftScalable D919x	Active-active	Fixed	
Sun	StorageTek 2540	Active-passive	MRU – Most Recently Used	LCSM100_F
Sun	StorageTek 3510	Active-active	Fixed	StorEdge 3510
Sun	StorageTek 5220	Active-active	Fixed	StorageTek NAS
Sun	StorageTek 5320	Active-active	Fixed	StorageTek NAS
Sun	StorageTek 6130	Active-passive	MRU – Most Recently Used	CSM100_R_FC
Sun	StorageTek 6140	Active-passive	MRU – Most Recently Used	CSM200_R
Sun	StorageTek 6540	Active-passive	MRU – Most Recently Used	FLEXLINE 380

Table 68. SAN Array Model Reference (Continued)

OEM	Array Type	Mode	Recommended Path Policy	Model String
Sun	StorageTek 6920	Active-active	MRU – Most Recently Used	SE6920
Sun	StorageTek 9970	Active-active	Fixed	
Sun	StorageTek 9980	Active-active	Fixed	
Sun	StorageTek 9985	Active-active	Fixed	HITACHI OPEN-V
Sun	StorageTek 9985V	Active-active	Fixed	
Sun	StorageTek 9990V	Active-active	Fixed	
Sun	StorageTek Flexline 240	Active-passive	MRU – Most Recently Used	OPENstorage D240
Sun	StorageTek Flexline 280	Active-passive	MRU – Most Recently Used	OPENstorage D280
Sun	StorageTek Flexline 380	Active-passive	MRU – Most Recently Used	FLEXLINE 380
Sun	StorEdge 3511	Active/Active	Fixed	SE3511
Transtec	PROVIGO 550F	Active-active	Fixed	PROVIGO 550F
Xiotech	Magnitude 3D 3000	Active-active	Fixed	Magnitude 3D
Xiotech	Magnitude 3D 4000	Active-active	Fixed	Magnitude 3D
Xyratex	F5402E	Active-passive	MRU – Most Recently Used	F5402E
Xyratex	F5412E	Active-active	Fixed	F5412E

¹ Path policy is changed to Fixed in ESX Server 3.0.1 patch ESX-1003518 (<http://kb.vmware.com/kb/1003518>) and ESX Server 3.0.2 Patch ESX-1003524 (<http://kb.vmware.com/kb/1003524>).

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