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Dell EMC Storage Compatibility Matrix for SC, PS and FS Series Arrays

Dell EMC Midrange Storage
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A Dell EMC Deployment and Configuration Guide

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1 Overview

This compatibility matrix describes SAN components (such as switches, host bus Adapters, and operating systems) that have been tested in Dell storage labs. The testing results demonstrate that Dell SC Series, PS Series, and FS Series products, as tested and under normal operating conditions, will operate as expected and as described in Dell Storage product documentation.

The first portion of this document describes the Dell commitment to supporting the various products that have been tested and those products or components that have not been tested. This section describes a multi-tiered support policy that describes any limitations to a customer's supportability for Dell and non- Dell components when those components or their constituent software (such as drivers and firmware) are not listed in this matrix.

The second part of this document lists switches that have been tested and confirmed to be interoperable with Dell SC Series, PS Series, and FS Series products. The resulting configurations are separated by networking technology (Fibre Channel or Ethernet) and product vendor/model.

The final section of this document details the hardware and software used when testing different host network connectivity devices (network interface controllers, converged network Adapters, and host bus Adapters) and storage initiators in a variety of operating-system environments. The results are separated by protocol and then grouped by operating system.

1.1 Definitions

For the purposes of this document, the following definitions apply:

Storage solution: The end-to-end set of components, such as the operating system, network controller, switch, and switch firmware, and array firmware that permits a host to target communication.

Component: The individual parts of a storage solution in the form of host network interface Adapters, iSCSI initiators, iSCSI host bus Adapters, switches, and arrays.

Comparable models: These can include similar devices based on the same architecture and from the same vendor, or newer firmware versions.

1.2 Conventions used in this document

Blue Text is used for all section titles. When visible in body text or tables, blue text indicates a change or addition from the previous version of the Dell Storage Compatibility Matrix (DSCM).

The remainder of the DSCM is organized by storage network component family starting with section 3. The following hierarchy is used:

Component class (switch, host connectivity Adapters, other components)

Array Family (SC, SCv, PS, FS)

> Component tables by storage protocol (FC, FCoE, iSCSI, etc.)

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2 Dell Storage support policy statement

This compatibility matrix details devices that have been tested by Dell storage test labs. While Dell tests on a wide variety of devices, it is impossible to test every device or version for all vendors with which Dell Storage products can interoperate. Therefore, **the information presented in this document does not constitute a complete list of what is supportable**, but simply a list of what has been specifically tested.

Regardless of the support level (described in the following sections), Dell Storage customers will always be provided full contractual support of their storage solution.

Each row in a table defines a SAN component and the software or firmware that was tested with that component. Each of these entries constitutes a supportable configuration.

Based on this matrix, a customer configuration will be classified into one of three levels of supportability described below. Each level of supportability also references the requirement for designing the SAN subsystem using recommended practices suitable for the each Dell Storage product family. These recommended practices are documented in a variety of technical white papers as well as consolidated in the Dell EqualLogic Configuration Guide and the Dell SC Series knowledge center.

Contact your Dell sales representative with questions about how to classify your proposed configuration.

2.1 Level 1: Full contractual support

For tested components listed in this compatibility matrix, (and for the specific firmware or software version listed), Dell will provide solution support under an active Dell ProSupport™ or Copilot support contract, assuming that all other components in the storage solution are also under contracted support with their respective manufacturers and that documented, recommended design best practices are followed.

Note: The exception is that iSCSI switches are not specifically listed in the support matrix. They are however supported if they meet the criteria specified in section 3.3.1.

2.2 Level 2: Conditional support

In addition to the component versions tested by Dell and listed in this compatibility matrix, the compatibility of comparable hardware models can be projected based upon the results for the systems actually tested and will be designated as conditionally supported.

Dell will provide full contractual support for the storage solution under an active ProSupport or Copilot support contract, assuming that all components in the storage solution are also under contracted support with their respective manufacturers and that documented, recommended design best practices are followed.

Resolution of functional and/or performance issues may be out of Dell control. In such cases, these issues will need to be addressed by the applicable component or software/firmware vendor. If these issue(s) cannot be resolved in a timely manner by Dell or the component vendor, Dell may require, in its sole discretion and as a condition of continuing support, that the customer replace the component in question with one that was tested and/or will upgrade or downgrade to a supported software version.

Examples of conditional support situations include, but are not limited to:

If a switch or server Adapter shares the same underlying ASIC or chipset and is from the same vendor as a tested configuration, then it may produce similar results.

If a component is an identical model of a component listed, but differs in firmware or driver version, it may produce similar results for any firmware and/or drivers that are newer than those listed. For example, if version X of software/firmware has been tested and is listed as Level 1, then software/firmware versions newer than version X are expected to work.

Failure of a conditionally supported component to provide the same service level as the similar device listed (unless Dell has communicated end of support or a specific incompatibility for a particular product, firmware, or software version) would be treated as a bug that needs to be fixed by the device or software/firmware vendor.

2.3   Level 3: Commercially reasonable effort

Level 3 support applies to components not listed within this compatibility matrix, or instances in which a customer has not or is not willing to apply accepted Dell recommended practices for the specific storage family's SAN design and implementation. **If the customer has an active support contract with the appropriate vendor(s), and an active ProSupport or Copilot support contract, Dell will provide storage solution full contractual support for all Dell branded components and provide commercially reasonable effort (CRE) support for any untested component of the configuration. This support level lasts until such time as it is determined, in Dell's sole discretion that a problem lies within the untested component or results from the way they interoperate with Dell components.**

Dell does not guarantee that issues undertaken on a CRE basis will be resolved in a timely fashion, or at all. There is a possibility that the customer would need to replace an untested component or take the affected system out of production to resolve the issues.

2.4   Level 4: No support

Level 4 indicates that the device is not supported in any way for use with the specified array family as listed. While this is not a common occurrence, there are situations where specific features or functions required to support the array are not available in the device listed.

2.5   Support for cross-platform coexisting solutions

Cross-platform coexisting solutions are defined as SAN environments that host more than one storage platform technology. In general, this could be two or more array technology solutions from the same vendor or different vendors. Examples include:

A SAN solution that is hosting a Dell SC Series array as well as an EMC array solution, while sharing the same network resources

A SAN solution that is hosting a Dell SC Series array as well as a Dell PS Series array solution, while sharing the same network resources

Dell supports the following scenarios involving two or more array solutions sharing a common network infrastructure:

A Dell PS Series SAN infrastructure introducing or adding a Dell SC Series array solution to the existing PS Series SAN

Note: Any other array coexistence solution is not supported at the time of the publish date of this document.

This scenario implies that certain criteria will be assumed and only these configurations will receive Level 1 support:

iSCSI only
A single IP subnet
PS Series Host Integration Tools may (or may not) be installed on individual hosts where supported

To determine the support level of the coexistence solution, the following rules apply:

Level 1 support is provided, assuming that for each array solution (PS Series and SC Series), all of the components used (operating systems, Adapters, and switches) are listed in the matrices included in this document, and that the support policy statement described earlier in this document is applied to each solution
Level 2 support is provided if any included component qualifies for Level 2 support for either of the array solutions
Level 3 support is provided for any other solutions

2.6 FS Series additional support statement

The FS Series of products are NAS appliances that work with the various Dell Storage PS Series and SC Series products. All FS Series products are tested for interoperability with their respective back-end storage array products, and Dell will support any and all issues arising in or between these products while the products are under warranty and/or under an active ProSupport or Copilot support contract for both products.

The following sections describe general support policies for the FS Series, particularly as they relate to the results published in this document. There are additional environmental and cabling considerations that should be taken into account when building a storage solution that includes FS Series NAS appliances.

Please consult other FS Series documentation or contact your Dell account representative to ensure that all the relevant factors have been taken into consideration.

2.6.1 Switch support policy

Dell tests switches for two of the three networks associated with an FS Series NAS cluster, namely the back-end iSCSI or Fibre Channel (FC) network situated between the NAS controllers and the PS Series or SC Series storage arrays. The FS76x0 Series NAS appliances connect to the PS Series SAN arrays using the industry-standard iSCSI protocol, while the FS8000 Series NAS appliances connect to the SC Series SAN arrays using either iSCSI or Fibre Channel. For proper configuration, at least one switch is required (a minimum of two switches is recommended) to interconnect these products. Direct connection of any FS Series NAS appliances and the respective arrays is not supported.

The three levels of support described previously are applicable to the FS Series switches listed in this matrix for back-end network configuration.

There are two other networks associated with an FS76x0 Series cluster, namely the front-end connection to the customer's existing client network, and the cluster or private interconnect network for communication between FS76x0 Series controllers. Both of these networks are Ethernet based.

Any Ethernet switch listed for use as a back-end switch is also valid for use as a private interconnect network switch and can be used for both back-end and private simultaneously.

2.6.2   Client OS environment support policy

Although Dell tests the FS Series NAS solution in a variety of client operating system environments, this document does not provide resulting compatibility data. The statements made with respect to compatibility for the FS Series in this document are not to be construed as a guarantee of interoperability or supportability of client operating systems.

2.6.3   MD Series support policy statement

The following MD Series array products have separate set of support documentation currently available on the website:

MD34xx/38xx : http://dell.to/1Ov6cYQ
MD32xx/36xx : http://dell.to/1HOZiZP

General support is provided as follows:

Level 1 support for iSCSI and FC for all industry-standards-based switches
Level 1 support for iSCSI software-based initiators for the supported shipping versions of the following operating systems:

Microsoft® Windows®
Red Hat® Enterprise Linux®
SUSE® Linux Enterprise Server
VMware® ESX®/ESXi™

Level 1 support for all standards-based Ethernet NICs for use with the above iSCSI software-based initiators, including those that support TCP-offload functionality
Level 1 support for all RFC 3720 compliant iSCSI hardware-based initiators/HBAs
Level 1 support for Brocade®, QLogic®, and Emulex® Fibre Channel HBAs as listed in section 18 of the support matrix documents listed previously in this section.

All other devices and software not currently listed previously or in the linked support matrix documents would be supported on a Level 3 (commercially reasonable effort) basis.

2.7   Other statements

2.7.1   Operating system, switch, and server Adapter settings

Although this document does not cover recommended practices, optimized SAN or NAS solutions consisting of supported hardware and software (as defined in this document) are based on recommended practices documented in Dell white papers. These documents are downloadable from Dell TechCenter and are frequently updated with recommended practices and recommended settings for various operating systems, switches, and server Adapters.

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2.7.2   Server interoperability

This compatibility matrix details interoperability from the storage array to various server hosts through a switched network and one or more network Adapters or host bus Adapters (HBAs). Testing of, and support for, a specific server platform (such as Dell PowerEdge™ servers) was not performed as part of this program and customers should visit the server vendor's website to determine which operating systems and Adapters are supported by the server vendor.

2.7.3   Host connectivity Adapters and server vendor support

This matrix lists many host network Adapters and HBAs that have been tested for use within the indicated Dell Storage array family SAN environment. It is not implied that all of these Adapters and their driver/firmware stacks are supported by any or all server vendors. The reader must ensure that the host network Adapter and its associated drivers are included on the vendor's hardware compatibility list. This recommendation also applies to Dell PowerEdge server products. Inclusion in this document's Adapter compatibility tables should not be interpreted as that Adapter and driver/firmware combination as being supported by any vendor's for use with their server products.

2.7.4   Persistent FCIDs

With HP-UX 11i v1 and v2, it is recommended to operate Storage Center in Legacy port mode in concurrence with the use of Persistent FCID (Cisco) or Persistent PID (Brocade FOS v6.0.4 or newer & 8GB only) switches (switch-wide or per VSAN accordingly to vendor specifications).

With HP-UX 11i v3 (Agile Addressing/Naming), the Storage Center can be operated in either Legacy or Virtual port modes. The use of Persistent FCID or Persistent PID is not required for use with HP-UX 11i v3.

Additional information regarding switch level port persistency can be obtained from published Copilot Services Technical Alerts (CSTAs) located on Knowledge Center at the Dell SC Customer Portal.

The Dell Storage Software Suite for AIX v2.2.0.x introduces new features, enhancements and remove the need of certain legacy requirements. These new features and enhancements are as noted below. This will be the only package made available by Dell to customers requesting this driver package and will replace the existing PCM v1.2.0.1 (and v1.0.0.5) currently in use.

Supports AIX v6.1 thru v7.1
Supports use of Storage Center in Virtual port mode
Negates the need of use of Persistent FCID/PID-enabled switches
Enhanced hdisk lscfg details
Allows AIX OS to survive Storage Center controller failover events of up to 60 seconds

2.7.5   Limits of supportability

If any recommendations made by Dell to resolve customer issues — whether they are functional or performance related — are not followed, Dell cannot guarantee that the issue can be resolved to the satisfaction of the customer. The ability of Dell to provide customer support is dependent on the customer's willingness to implement solution recommendations from Dell.

2.8   Abbreviations and terminology

Abbreviations and terminology used in this document

Abbreviation	Term	Descriptions
L1, L2, L3	Level 1, Level 2, Level 3	The support level provided for a particular feature (see the section, Dell Storage support policy statement for details)
BfS	Boot from SAN	A general term referring to functionality on a CNA/HBA/NIC to allow bare-metal OS boot from a remote, SAN-based target/LUN/volume
CNA	Converged network Adapter	A networking device that supports DCB and can manage more than one class of network traffic, typically consisting of storage and non-storage traffic types
Conv	Converged Ethernet (DCB) capable switch	Includes functionality to support FC native and Ethernet native ports in the same switch to facilitate support for FC/FCoE/TCP functionality
DCB	Data Center Bridging	Used to support converged networking solutions that host FCoE or iSCSI traffic and TCP/IP traffic simultaneously
Eth	Ethernet	The most common type of general purpose networking defined by a group of standards maintained by the Institute of Electrical and Electronics Engineers (IEEE)
FC	Fibre Channel	A networking technology used in storage networks
FCoE	Fibre Channel over Ethernet	A storage protocol that enables Fibre Channel communication over Ethernet networks
FW	Firmware	Typically the main operating system for an appliance-type device or component such as a NIC, switch, or other device; typically not user-interactive, though it may contain subsystems that provide user interaction such as a command line interface
HBA	Host bus Adapter	Indicates a device that provides hardware-based FC/FCoE/iSCSI storage functionality
iBFT	iSCSI Boot Firmware Table	A specific, standards-based BfS technology that supports booting from iSCSI-protocol-based targets; part of the ACPI 3.0 standard
MLAG	Multi-chassis link aggregation	General term or specific feature offering by some switch vendors for switch-to-switch multipath interconnection
NA	Not applicable	This feature or function is not applicable
NIC	Network interface controller	A networking device that provides Ethernet and optional TCP/IP functionality and may or may not provide SAN/network boot functionality; for SAN solutions, this requires a software-based protocol initiator (FCoE/iSCSI) to access SAN remote targets
OS	Operating system	The core software of a system
RTM	Release to manufacturing	Initial-release version of an operating system from the vendor

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Abbreviation	Term	Descriptions
SC/SCOS	Storage Center Operating System	The core software of the SC Series products that provides all storage and management functionality
VLT	Virtual Link Trunking	Proprietary switch-to-switch multipathing solution provided by certain Dell Networking switch products
vPC	Virtual Port Channel	Proprietary switch-to-switch multipathing solution provided by certain Cisco® network products, specifically Cisco Nexus® products
	In-box	The version included with each release of a given operating system by the vendor
OS	Operating system	The core software of a system

3 Switches

3.1 Fibre Channel (SC, SCv, PS, and FS Series)

3.1.1 SC, SCv and FS Series

Fibre Channel switches listed in this section are supported at Level 1 (as described previously) for the listed switch firmware versions. **Switches listed in this table are supported with Storage Center OS (SCOS) and FluidFS.**

5.4.x or later as appropriate for the SC array model (for example, the SCv20xx requires SCOS 6.6.x or later). Specific exceptions are listed in the Notes field.

Vendor	Model	Type	Switch FW Version	Notes
Brocade/Connextrix	300 / DS-300B	FC	6.3.x	
			6.4.x	
			7.0.x	
			7.1.x	
			7.3.x	SCOS 6.5.x or later
			7.4.x	SCOS 6.5.x or later
	65xx Family, DS-6505B, DS-6510B, DS-6520B	FC	7.0.x	
			7.1.x	
			7.2.x	SCOS 6.6.x or later
			7.3.x	SCOS 6.6.x or later
			7.4.x	SCOS 6.6.x or later
			8.1.x	SCOS 7.2.x or later
	DCX-8510-4 / ED-DCX8510-4B	FC	7.0.0b	
			7.0.2	
			7.3.x	
			7.4.x	SCOS 6.6.x or later
	G610 / DS-6610B	FC	8.0.x	SCOS 7.0.x or later
			8.1.x	SCOS 7.0.x or later
	G620 / DS-6620B	FC	8.0.x	SCOS 7.0.x or later
			8.1.x	SCOS 7.0.x or later
Cisco / Connectrix	MDS 91xx Family	FC	4.1.x	

Vendor	Model	Type	Switch FW Version	Notes
Cisco / Connectrix	MDS 91xx Family	FC	5.0.x	
			5.2.x	
			6.2.x	SCOS 6.4.x or later
	MDS 91xxS	FC	8.2.x	SCOS 7.1.x or later
	MDS 92xx Family	FC	4.1.x	
			5.0.x	
			5.2.x	
			6.2.x	SCOS 6.6 or later
	Nexus 55xxUP	Conv	5.0.x	
			7.0.x	SCOS 6.4.x or later
			7.1.x	SCOS 6.6.x or later
			7.2.x	SCOS 6.7.x or later
	UCS 62xx FI	Conv	2.2.x	-SCOS 6.5.x or later;
				-Switch in FC Switching mode requiring upstream FC switches
				-Dell Storage SC Series array will be listed in UCS 2.2(3) compatibility matrix
	UCS 6324	Conv	3.0.x	-SCOS 6.7.x or later
				-SC directly attached to UCS 63xx (host mode) supported
				-Dell Storage SC Series arrays will be listed in UCS 3.0(x) compatibility matrix
Dell	PowerConnect B-DCX 4S	FC	6.4.x	
	PowerConnect B-Series	Conv	6.3.x	
	Dell Networking FN2210S	Conv	9.9.x	SCOS 6.7.x or later
Dell	Dell Networking S4148U	Conv	10.4.x	SCOS 7.2.x or later
Dell	Dell Networking S5000	Conv	9.1.1.x	SCOS 6.4.x or later

Vendor	Model	Type	Switch FW Version	Notes
Dell	Dell Networking S5000	Conv	9.7.x	SCOS 6.5.x or later
	Dell Networking S5000	Conv	9.9.x	SCOS 6.7.x or later
	Dell Networking MXL	Conv	9.7.x	SCOS 6.6.x or later
			9.9.x	SCOS 6.7.x or later
	PowerConnect M5424	FC	6.4.x	
			7.1.x	
	PowerConnect M6505	FC	7.0.x	
			7.2.x	SCOS 6.4.x or later
			7.3.x	SCOS 6.5.x or later
			7.4.x	SCOS 6.6.x or later
			8.1.x	SCOS 7.3x or later

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3.2 Fibre channel over Ethernet (SC Series)

Fibre Channel over Ethernet (FCoE) switches listed in this section are supported at Level 1 (as described previously) for the listed switch firmware versions. **Switches listed in this table are supported with any Storage Center OS (SCOS) 5.5.x or later.**

Vendor	Model	Type	Switch FW Version	Notes
Brocade	VDX 6730	Conv	3.0.x	
Cisco	Nexus 55xxUP		5.0.x	
Cisco	Nexus 55xxUP		6.0.x	
Cisco	Nexus 55xxUP		7.0.x	
Cisco	Nexus 55xxUP		7.1.x	SCOS 6.6.x or later
Cisco	Nexus 55xxUP		7.2.x	SCOS 6.7.x or later
Cisco	Nexus 6000 Family		7.0.x	
Dell	M8428-k		6.3.1.x	SCOS 6.6 x or later
			6.4.3.x	SCOS 6.6.x or later

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3.3   25/100Gb iSCSI (SC, SCv Series)

25Gb and 100Gb iSCSI switches listed in this section are supported at Level 1 (as described previously) for the listed switch firmware versions. **Switches listed in this table are supported with any Storage Center OS (SCOS) <u>7.3.1 or later</u>.**

Vendor	Model	Type	Switch FW Rev
Dell	Z9100	Eth	9.13(0.0)
Dell	S4148x-ON	Eth	10.4.0E(R3)

Note: *With 25Gb disable auto-negotiation with the copper break-out cables.*

3.4 1Gb and 10Gb iSCSI (SC, SCv, PS, and FS Series)

3.4.1 SC, SCv and FS Series

Dell supports the use of an 1/10Gb Ethernet switche for use within a SC Series iSCSI SAN solutions which meets a minimum set of criteria that Dell has determined are necessary to ensure the proper functionality of the SAN solution.

Note: For FluidFS, the iSCSI SAN switch may also be used for Interconnect (in multi-appliance configurations) and so Jumbo Frames should be supported independently of storage array.

Dell ProSupport service offerings will provide customers contractual support (Level 1 support) for iSCSI SAN based connectivity in a dedicated SAN infrastructure using any Ethernet switch that provide the following functionality and features:

All switching components in the SAN must have active support contracts in place with device vendor
Non-blocking backplane
Link level flow control (IEEE 802.3x) on ingress/inbound switch ports (also known as "Rx Flow Control" or "receive-side flow control" from the switch port's point of view)
Dynamic packet buffer management with a minimum of:

4MB of packet buffer for 1Gbps switches
9MB of packet buffer for 10Gbps switches

Ability to configure ports to immediate forwarding state for edge ports (may be known as "portfast" mode)
Jumbo Frames (MTU 9000+ bytes) support if enabled on storage array
Unicast storm control configuration
VLAN and VLAN Tagging support
Switch has a valid support contract in effect from the switch vendor at the time of the incident Protocols and standards requirements:
IEEE 802.1AB LLDP
IEEE 802.1p   L2 Prioritization
IEEE 802.1X   Network Access Control
IEEE 802.3x   Flow Control
IEEE 802.3z   Gigabit Ethernet (1000Base-X) with QSA
IEEE 802.1Q   VLAN Tagging, Double VLAN Tagging, GVRP if enabled on storage array
IEEE 802.3ac   Frame Extensions for VLAN Tagging
IETF RFC793   TCP
IETF RFC1042 Ethernet Transmission

These features are typically present in certain classes of switches from switch vendors that are targeted at data center environments. These switches may be described by switch vendors as "enterprise class", "top of rack" or "data center edge" offerings.

Please work with your Dell storage expert to determine whether your switch is suitable for use with an iSCSI SAN solution.

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3.4.2 PS Series

For PS Series arrays, switches listed in this section are supported at Level 1 (as described previously) for the switch firmware versions listed and PS Series array operating system versions.

Note: Attaching 10GbE arrays to switches that are designed and provide predominately 1GbE ports (1GbE switches) is not supported due to the potential of performance limitations that could result in data-unavailable scenarios. By design, 1GbE switches typically do not have the resources to manage 10GbE edge traffic.

PS6210/6610 and PS4210 can be attached to 1GbE switches via the switch's 1GbE RJ-45 ports. In this mode, the array will operate at 1Gb only.

Vendor	Model	Type	Switch FW Version	PS OS	Switch Interconnect		
					vPC/VLT	Stacking	LAG
Arista	7050S	Eth	4.17.0F	9.0.x	N/A	N/A	L1
Arista	7280SR	Eth	4.16.7FX-7500R	9.0.x	N/A	N/A	L1
Brocade	RX	Eth	2.7.x	5.0.2	N/A	N/A	L1
Brocade	RX	Eth	2.8.x	6.0.x	N/A	N/A	L1
Brocade	TurboIron 24X	Eth	4.2.x	4.3.x	N/A	N/A	L1
Brocade	TurboIron 24X	Eth	7.3.x	L2	N/A	N/A	L2
Brocade	VDX 6720	Conv	2.0.x	5.1.x	N/A	L3	L1
Brocade	VDX 6720	Conv	5.0.x	7.0.x	N/A	L3	L1
Brocade	VDX 6940	Conv	7.0.1	9.0.x	N/A	L3	L1
Cisco	Catalyst 3750X-48T-L	Eth	12.x	5.1.x	N/A	L1	L1
Cisco	Catalyst 3750X-48T-L	Eth		6.0.x	N/A	L1	L1
Cisco	Catalyst 3750X-48T-L	Eth		7.0.x	N/A	L1	L1
Cisco	Catalyst 3750X-48T-L	Eth		8.0.x	N/A	L1	L1
Cisco	Catalyst 3850 Family	Eth	3.07.04E	8.0.x	N/A	L1	L1
Cisco	Catalyst 4948-10G	Eth	12.2.x	4.3.x	N/A	N/A	L1
Cisco	Catalyst 4948-10G	Eth	15.0.x	7.0.x	N/A	N/A	L1
Cisco	Catalyst 4948-10G	Eth		8.0.x	N/A	L1	L1
Cisco	Catalyst 4948-10G	Eth		8.1.x	N/A	L1	L1
Cisco	Catalyst 4948-10G	Eth		9.0.x	N/A	N/A	L1
Cisco	Catalyst 4948E	Eth	15.2.x	7.0.x	N/A	N/A	L1

Vendor	Model	Type	Switch FW Version	PS OS	Switch Interconnect		
					vPC/VLT	Stacking	LAG
Cisco	Catalyst 4948E	Eth	15.2.x	8.1.x	N/A	N/A	L1
Cisco	Catalyst 4948E	Eth		9.0.x	N/A	N/A	L1
Cisco	Nexus 55xxUP	Conv	5.2.x	6.0.x	L1	N/A	L1
Cisco	Nexus 55xxUP	Conv	6.0.x	6.0.x	L1	N/A	L1
Cisco	Nexus 55xxUP	Conv	7.0.x	7.0.x	L1	N/A	L1
Cisco	Nexus 55xxUP	Conv		8.0.x	L1	L1	L1
Cisco	Nexus 55xxUP	Conv	7.1.x	8.1.x	L1	N/A	L1
Cisco	Nexus 55xxUP	Conv	7.2.x	9.0.x	L1	N/A	L1
Cisco	Nexus 5648Q (no DCB)	Eth	7.3(2)N1(1)	9.1	L1	NA	L1
Cisco	Nexus 6000 Family	Conv	7.0.x	7.0.x	L1	N/A	L1
Cisco	Nexus 6000 Family	Conv	7.0.x	7.1.x	L1	N/A	L1
Cisco	Nexus 6000 Family	Conv	7.1.x	8.1.x	L1	N/A	L1
Cisco	Nexus 6000 Family	Conv	7.2.x	9.0.x	L1	N/A	L1
Cisco	Nexus 7000 Family	Conv	6.1.x	6.0.x	L3	N/A	L1
Cisco	Nexus 7000 Family	Conv	6.2.x	7.0.x	L3	N/A	L1
Cisco	Nexus 7000 Family	Conv		8.0.x	N/A	N/A	L1
Cisco	Nexus 7000 Family	Conv		8.1.x	N/A	N/A	L1
Cisco	Nexus 7000 Family	Conv		9.0.x	L1	N/A	L1
Cisco	Nexus 9372PX (no DCB)	Eth	7.0(3) I5(2)	9.1	L1	NA	L1
Cisco	Nexus 9500	Conv	7.0(3)	7.1.x	L1	N/A	L1
Cisco	Nexus 9500	Conv		9.0.x	L1	N/A	L1
Dell	Dell Networking N2000	Eth	6.0.x	7.0.x	N/A	L1	L1
Dell	Dell Networking N2000	Eth		8.0.x	N/A	L1	L1
Dell	Dell Networking N2000	Eth	6.2.x	8.1.x	N/A	L1	L1
Dell	Dell Networking N2000	Eth		9.0.x	L3	L1	L1
Dell	Dell Networking N3000	Eth	6.0.x	7.0.x	N/A	L1	L1
Dell	Dell Networking N3000	Eth		8.0.x	N/A	L1	L1
Dell	Dell Networking N3000	Eth	6.2.x	8.1.x	N/A	L1	L1
Dell	Dell Networking N3000	Eth		9.0.x	L3	L1	L1

Vendor	Model	Type	Switch FW Version	PS OS	Switch Interconnect		
					vPC/VLT	Stacking	LAG
Dell	Dell Networking N4000	Eth	6.0.x	7.0.x	N/A	L1	L1
Dell	Dell Networking N4000	Eth	6.1.x	7.1.x	N/A	L1	L1
Dell	Dell Networking N4000	Eth	6.1.x	8.0.x	N/A	L1	L1
Dell	Dell Networking N4000	Eth	6.2.x	8.1.x	N/A	L1	L1
Dell	Dell Networking N4000	Eth		9.0.x	L3	L1	L1
Dell	Dell Networking S3000- ON	Eth	9.8.x	7.1.x	N/A	L1	L1
Dell	Dell Networking S3000- ON	Eth	9.9.x	8.1.x	L1	L1	L1
Dell	Dell Networking S3000- ON	Eth		9.0.x	L1	L1	L1
Dell	Dell Networking S3000- ON	Eth	9.10.x	9.0.x	L1	L1	L1
Dell	Dell Networking S3000- ON	Eth	10.3.1	9.0.x	L1	L1	L1
Dell	Dell Networking S3100	Eth	9.8.x	9.0.x	L1	L1	L1
Dell	Dell Networking S4000- ON	Eth	9.8.x	7.1.x	L1	L1	L1
Dell	Dell Networking S4000- ON	Eth	9.9.x	8.1.x	L1	L1	L1
Dell	Dell Networking S4000- ON	Eth		9.0.x	L1	L1	L1
Dell	Dell Networking S4000- ON	Eth	9.10.x	9.0.x	L1	L1	L1
Dell	Dell Networking S4000- ON	Eth	10.3.1	9.1.x	L1	L1	L1
Dell	Dell Networking S4128F	Conv	10.3.1E	9.1	L1	NA	L1
Dell	Dell Networking S4148F	Conv	10.3.1E	9.1	L1	NA	L1
Dell	Dell Networking S4148T	Conv	10.3.1E	9.1	L1	NA	L1
Dell	Dell Networking S4148U	Conv	10.3.1E	9.1	L1	NA	L1
Dell	Dell Networking S4148FE	Conv	10.3.1E	9.1	L1	NA	L1
Dell	Dell Networking S4248FB	Conv	10.4.0E(R2)	9.1	L1	NA	L1
Dell	Dell Networking S4248FBL	Conv	10.4.0E(R2)	9.1	L1	NA	L1
Dell	Dell Networking S5000	Conv	9.0.x	6.0.x	L1	L1	L1
Dell	Dell Networking S5000	Conv		7.0.x	L1	L1	L1
Dell	Dell Networking S5000	Conv	9.1.x	7.0.x	L1	L1	L1
Dell	Dell Networking S5000	Conv		8.0.x	L1	L1	L1
Dell	Dell Networking S5000	Conv	9.6.x	7.0.x	L1	L1	L1
Dell	Dell Networking S5000	Conv	9.7.x	8.0.x	L1	L1	L1

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Vendor	Model	Type	Switch FW Version	PS OS	Switch Interconnect		
					vPC/VLT	Stacking	LAG
Dell	Dell Networking S5000	Conv	9.8.x	7.1.x	L1	L1	L1
Dell	Dell Networking S5000	Conv	9.9.x	8.1.x	L1	L1	L1
Dell	Dell Networking S5000	Conv		9.0.x	L1	L1	L1
Dell	Dell Networking S5000	Conv	9.10.x	9.0.x	L1	L1	L1
Dell	Dell Networking S6000	Eth	9.0.x	6.0.x	L1	L1	L1
Dell	Dell Networking S6000	Eth	9.3.x	7.0.x	L1	L1	L1
Dell	Dell Networking S6000	Eth	9.4.x	7.0.x	L1	L1	L1
Dell	Dell Networking S6000	Eth	9.6.x	7.0.x	L1	L1	L1
Dell	Dell Networking S6000	Eth		8.0.x	L1	L1	L1
Dell	Dell Networking S6000	Eth	9.7.x	7.1.x	L1	L1	L1
Dell	Dell Networking S6000	Eth	9.8.x	7.1.x	L1	L1	L1
Dell	Dell Networking S6000	Eth	9.9.x	8.1.x	L1	L1	L1
Dell	Dell Networking S6000	Eth		9.0.x	L1	L1	L1
Dell	Dell Networking S6000	Eth	9.10.x	9.0.x	L1	L1	L1
Dell	Dell Networking S6010	Eth	9.10.x	9.0.x	L1	L1	L1
Dell	Dell Networking Z9000	Eth	9.3.x	7.0.x	L1	L1	L1
Dell	Dell Networking Z9000	Eth	9.4.x	7.0.x	L1	L1	L1
Dell	Dell Networking Z9000	Eth	9.7.x	7.1.x	L1	L1	L1
Dell	Dell Networking Z9000	Eth	9.8.x	7.1.x	L1	L1	L1
Dell	Dell Networking Z9000	Eth	9.9.x	8.1.x	L1	L1	L1
Dell	Dell Networking Z9000	Eth		9.0.x	L1	L1	L1
Dell	Dell Networking Z9000	Eth	9.10.x	9.0.x	L1	L1	L1
Dell	Dell Networking Z9500	Eth	9.5.x	7.0.x	L1	L1	L1
Dell	Dell Networking Z9500	Eth	9.7.x	7.1.x	L1	L1	L1
Dell	Dell Networking Z9500	Eth		8.0.x	L1	L1	L1
Dell	Dell Networking Z9500	Eth		9.0.x	L1	L1	L1
Dell	Dell Networking Z9500	Eth	9.8.x	7.1.x	L1	L1	L1
Dell	Dell Networking Z9500	Eth	9.9.x	8.1.x	L1	L1	L1
Dell	Dell Networking Z9500	Eth		9.0.x	L1	L1	L1

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Vendor	Model	Type	Switch FW Version	PS OS	Switch Interconnect		
					vPC/VLT	Stacking	LAG
Dell	Dell Networking Z9500	Eth	9.10.x	9.0.x	L1	L1	L1
Dell	Dell Networking C-7000	Eth	7.7.x	4.3.x	N/A	N/A	L1
Dell	Dell Networking C-9000	Eth	9.9.x	8.1.x	L3	N/A	L1
Dell	Dell Networking C-9000	Eth		9.0.x	L1	L1	L1
Dell	Dell Networking MXL/IOA	Eth	8.3.x	5.2.x	L1	L1	L1
Dell	Dell Networking MXL/IOA	Eth		6.0.x	L1	L1	L1
Dell	Dell Networking MXL/IOA	Eth	9.2.x	6.0.x	L1	L1	L1
Dell	Dell Networking MXL/IOA	Eth		7.0.x	L1	L1	L1
Dell	Dell Networking MXL/IOA	Eth	9.4.x	7.0.x	L1	L1	L1
Dell	Dell Networking MXL/IOA	Eth	9.6.x	7.0.x	L1	L1	L1
Dell	Dell Networking MXL/IOA	Eth		8.0.x	L1	L1	L1
Dell	Dell Networking MXL/IOA	Eth	9.7.x	7.1.x	L1	L1	L1
Dell	Dell Networking MXL/IOA	Eth	9.8.x	7.1.x	L1	L1	L1
Dell	Dell Networking MXL/IOA	Eth	9.9.x	8.1.x	L1	L1	L1
Dell	Dell Networking MXL/IOA	Eth		9.0.x	L1	L1	L1
Dell	Dell Networking MXL/IOA	Eth	9.10.x	9.0.x	L1	L1	L1
Dell	Dell Networking S4810	Eth	8.3.x	5.1.x	N/A	L1	L1
Dell	Dell Networking S4810	Eth	8.3.x	5.2.x	N/A	L1	L1
Dell	Dell Networking S4810	Eth		6.0.x	N/A	L1	L1
Dell	Dell Networking S4810	Eth	9.1.x	6.0.x	L1	L1	L1
Dell	Dell Networking S4810	Eth	9.2.x	7.0.x	L1	L1	L1
Dell	Dell Networking S4810	Eth	9.4.x	7.0.x	L1	L1	L1
Dell	Dell Networking S4810	Eth	9.5.x	8.0.x	L1	L1	L1
Dell	Dell Networking S4810	Eth	9.6.x	7.0.x	L1	L1	L1
Dell	Dell Networking S4810	Eth		7.1.x	L1	L1	L1
Dell	Dell Networking S4810	Eth	9.7.x	7.1.x	L1	L1	L1
Dell	Dell Networking S4810	Eth	9.8.x	7.1.x	L1	L1	L1
Dell	Dell Networking S4810	Eth	9.9.x	8.1.x	L1	L1	L1
Dell	Dell Networking S4810	Eth		9.0.x	L1	L1	L1

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Vendor	Model	Type	Switch FW Version	PS OS	Switch Interconnect		
					vPC/VLT	Stacking	LAG
Dell	Dell Networking S4810	Eth	9.10.x	9.0.x	L1	L1	L1
Dell	Dell Networking S4820T	Eth	8.3.x	6.0.x	L1	L1	L1
Dell	Dell Networking S4820T	Eth	9.2.x	7.0.x	L1	L1	L1
Dell	Dell Networking S4820T	Eth		8.0.x	L1	L1	L1
Dell	Dell Networking S4820T	Eth	9.4.x	7.0.x	L1	L1	L1
Dell	Dell Networking S4820T	Eth	9.6.x	7.0.x	L1	L1	L1
Dell	Dell Networking S4820T	Eth	9.7.x	7.1.x	L1	L1	L1
Dell	Dell Networking S4820T	Eth	9.8.x	7.1.x	L1	L1	L1
Dell	Dell Networking S4820T	Eth	9.9.x	8.1.x	L1	L1	L1
Dell	Dell Networking S4820T	Eth		9.0.x	L1	L1	L1
Dell	Dell Networking S4820T	Eth	9.10.x	9.0.x	L1	L1	L1
Dell	Dell Networking S25N/S50N	Eth	7.7.x	4.3.x	N/A	L1	L1
Dell	Dell Networking S25N/S50N	Eth	8.4.x	5.1.x	N/A	L1	L1
Dell	Dell Networking S25N/S50N	Eth		6.0.x	N/A	L1	L1
Dell	Dell Networking S25N/S50N	Eth		7.0.x	N/A	L1	L1
Dell	Dell Networking S55	Eth	8.3.x	5.1.x	N/A	L1	L1
Dell	Dell Networking S55	Eth		6.0.x	N/A	L1	L1
Dell	Dell Networking S55	Eth		7.0.x	N/A	L1	L1
Dell	Dell Networking S55	Eth		8.0.x	N/A	L1	L1
Dell	Dell Networking S55	Eth		9.0.x	L1	L1	L1
Dell	Dell Networking S60	Eth	8.3.x	5.1.x	N/A	L1	L1
Dell	Dell Networking S60	Eth		6.0.x	N/A	L1	L1
Dell	Dell Networking S60	Eth		7.0.x	N/A	L1	L1
Dell	Dell Networking S60	Eth		8.0.x	N/A	L1	L1
Dell	Dell Networking S60	Eth	8.3.x	8.1.x	N/A	L1	L1
Dell	Dell Networking S60	Eth		9.0.x	L1	L1	L1
Dell	PowerConnect 70xx Family	Eth	4.1.x	4.3.x	N/A	L1	L1
Dell	PowerConnect 70xx Family	Eth	4.2.x	6.0.x	N/A	L1	L1
Dell	PowerConnect 70xx Family	Eth	5.0.x	6.0.x	N/A	L1	L1

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Vendor	Model	Type	Switch FW Version	PS OS	Switch Interconnect		
					vPC/VLT	Stacking	LAG
Dell	PowerConnect 70xx Family	Eth	5.1.x	6.0.x	N/A	L1	L1
Dell	PowerConnect 70xx Family	Eth		7.0.x	N/A	L1	L1
Dell	PowerConnect 70xx Family	Eth		9.0.x	N/A	L1	L1
Dell	PowerConnect 81xx Family	Eth	5.0.x	5.2.x	N/A	L1	L1
Dell	PowerConnect 81xx Family	Eth		6.0.x	N/A	L1	L1
Dell	PowerConnect 81xx Family	Eth	5.1.x	6.0.x	N/A	L1	L1
Dell	PowerConnect 81xx Family	Eth		7.0.x	N/A	L1	L1
Dell	PowerConnect 81xx Family	Eth	6.0.x	7.0.x	N/A	L1	L1
Dell	PowerConnect M6348	Eth	3.1.x	4.3.x	N/A	L1	L1
Dell	PowerConnect M6348	Eth	4.2.x	6.0.x	N/A	L1	L1
Dell	PowerConnect M6348	Eth	5.0.x	6.0.x	N/A	L1	L1
Dell	PowerConnect M6348	Eth	5.1.x	6.0.x	N/A	L1	L1
Dell	PowerConnect M6348	Eth		7.0.x	N/A	L1	L1
Dell	PowerConnect M6348	Eth		8.0.x	N/A	L1	L1
Dell	PowerConnect M8428-k	Eth	6.3.x	6.0.x	N/A	L3	L1
Dell	PowerConnect M8428-k	Eth		7.0.x	N/A	L3	L1
Dell	PowerConnect M8428-k	Eth		8.0.x	N/A	L1	L1
Dell	PowerEdge IO Aggregator	Eth	8.3.x	6.0.x	N/A	L1	L1
Dell	PowerEdge IO Aggregator	Eth	9.2.x	6.0.x	L1	L1	L1
Dell	PowerEdge IO Aggregator	Eth		7.0.x	L1	L1	L1
Dell	PowerEdge IO Aggregator	Eth	9.6.x	7.0.x	L1	L1	L1
Dell	PowerEdge IO Aggregator	Eth		8.0.x	L1	L1	L1
Huawei	CE6850	Eth	8.100	9.1.x	L1	NA	L1
HP	5900AF-48G	Eth	7.1.x	7.0.x	N/A	L3	L1
HP	5900AF-48G	Eth		8.0.x	N/A	L1	L1

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3.5 iSCSI over DCB support for SC and PS Series Arrays

The following table indicates switches that have been tested with each array family's native iSCSI over DCB features.

SC Series arrays, with the release of SC Operating System (SCOS) 7.0 now support iSCSI over DCB. With this support, the SC series supports the following DCB standards:

IEEE 802.1Qbb – Priority Flow Control
IEEE 802.1Qaz – Enhanced Transmission Selection
IEEE 802.1Qaz – Data Center Bridging Exchange Protocol (IEEE DCBx)

Note: SC Series arrays do not support pre-IEEE DCBx standards such as converged enhanced Ethernet (CEE) or data center Ethernet (DCE) for iSCSI over DCB functionality. Switches that are listed in the table below that only support these pre-IEEE versions are designated as "L4" indicating there is "No Support".

Note: SC Series iSCSI over DCB is supported on controllers using the Chelsio T5xxx iSCSI Adapters at this time.

Vendor	Model	Type	Switch FW Version	PS OS	SC OS	Notes
Cisco	Nexus 55xxUP	Conv	7.0.x	7.0.x	L4	Cisco Nexus switches only support CEE version of DCBx and are not compatible with SC Series Array iSCSI over DCB functionality
Cisco	Nexus 55xxUP			8.0.x	L4	
Cisco	Nexus 55xxUP		7.1.x	8.1.x	L4	
Cisco	Nexus 6000 Family	Conv	7.0.x	7.0.x	L4	
Cisco	Nexus 6000 Family			7.1.x	L4	
Cisco	Nexus 6000 Family		7.1.x	8.1.x	L4	
Dell	Dell Networking N4000	Eth	6.0.x	7.0.x	L4	Switches based on DNOS 6.x prior to 6.3.0.3 only support CEE version of DCBx and are not compatible with SC Series Array iSCSI over DCB functionality
Dell	Dell Networking N4000		6.1.x	7.1.x	L4	
Dell	Dell Networking N4000			8.0.x	L4	
Dell	Dell Networking N4000		6.2.x	8.1.x	L4	
Dell	Dell Networking N4000		6.3.x	8.0.x	7.0.x	SC DCB support requires DNOS 6.3.0.3 or later
Dell	Dell Networking S4000-ON	Eth	9.8.x	7.1.x	L3	
Dell	Dell Networking S4000-ON		9.9.x	8.1.x	7.0.x	
Dell	Dell Networking S4000-ON		9.10.x	8.1.x	7.0.x	
Dell	Dell Networking S4000-ON	Conv	10.3.1	9.1	7.2.1	
Dell	Dell Networking S4128F	Conv	10.3.1E	9.1	7.2.1	

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Vendor	Model	Type	Switch FW Version	PS OS	SC OS	Notes
Dell	Dell Networking S4148F	Conv	10.3.1E	9.1	7.2.1	
Dell	Dell Networking S4128T	Conv	10.3.1E	9.1	7.2.1	
Dell	Dell Networking S4148T	Conv	10.3.1E	9.1	7.2.1	
Dell	Dell Networking S4148U	Conv	10.3.1E	9.1	7.2.1	
Dell	Dell Networking S4148FE	Conv	10.3.1E	9.1	7.2.1	
Dell	Dell Networking S4248FB	Conv	10.4.0E(R2)	9.1	7.2.1	
Dell	Dell Networking S4248FBL	Conv	10.4.0E(R2)	9.1	7.2.1	
Dell	DN S5000	Conv	9.0.x	6.0.x	L3	
Dell	DN S5000			7.0.x	L3	
Dell	DN S5000	Conv	9.1.x	7.0.x	L3	
Dell	DN S5000		9.1.x	8.0.x	L3	
Dell	DN S5000		9.6.x	7.0.x	L3	
Dell	DN S5000		9.7.x	8.0.x	L3	
Dell	DN S5000		9.8.x	7.1.x	L3	
Dell	DN S5000		9.9.x	8.1.x	7.0.x	
Dell	DN S5000		9.10.x	8.1.x	7.0.x	
Dell	Dell Networking S5048F	Conv Only	9.12.1	9.1	7.2.1	LLFC is not supported.
Dell	Dell Networking S5048F	Conv Only	9.12.1	9.1	7.2.1	LLFC is not supported.
Dell	Dell Networking S6000	Eth	9.0.x	6.0.x	L3	
Dell	Dell Networking S6000		9.3.x	7.0.x	L3	
Dell	Dell Networking S6000		9.4.x	7.0.x	L3	
Dell	Dell Networking S6000		9.6.x	7.0.x	L3	
Dell	Dell Networking S6000			8.0.x	L3	
Dell	Dell Networking S6000		9.7.x	7.1.x	L3	
Dell	Dell Networking S6000		9.8.x	7.1.x	L3	
Dell	Dell Networking S6000		9.9.x	8.1.x	7.0.x	
Dell	Dell Networking S6000		9.10.x	8.1.x	7.0.x	
Dell	Dell Networking S6100	Conv	9.10.x	8.1.x	7.0.x	

Vendor	Model	Type	Switch FW Version	PS OS	SC OS	Notes
Dell	Dell Networking Z9000	Eth	9.7.x	7.1.x	L3	
Dell	Dell Networking Z9000		9.8.x	7.1.x	L3	
Dell	Dell Networking Z9000		9.9.x	8.1.x	7.0.x	
Dell	Dell Networking Z9000		9.10.x	8.1.x	7.0.x	
Dell	Z9100	Conv	9.10.x	8.1.x	7.0.x	
Dell	Dell Networking Z9500	Eth	9.7.x	7.1.x	L3	
Dell	Dell Networking Z9500			8.0.x	L3	
Dell	Dell Networking Z9500		9.8.x	7.1.x	L3	
Dell	Dell Networking Z9500		9.9.x	8.1.x	7.0.x	
Dell	Dell Networking Z9500		9.10.x	8.1.x	7.0.x	
Dell	Dell Networking C-9000	Eth	9.9.x	8.1.x	7.0.x	All SAN ports must be 10GbE and DCB enabled
Dell	Dell Networking C-9000		9.10.x	8.1.x	7.0.x	
Dell	Dell Networking MXL/IOA	Eth	9.2.x	6.0.x	L3	
Dell	Dell Networking MXL/IOA			7.0.x	L3	
Dell	Dell Networking MXL/IOA		9.4.x	7.0.x	L3	
Dell	Dell Networking MXL/IOA		9.6.x	7.0.x	L3	
Dell	Dell Networking MXL/IOA			8.0.x	L3	
Dell	Dell Networking MXL/IOA		9.7.x	7.1.x	L3	
Dell	Dell Networking MXL/IOA		9.8.x	7.1.x	L3	
Dell	Dell Networking MXL/IOA		9.9.x	8.1.x	7.0.x	
Dell	Dell Networking MXL/IOA		9.10.x	8.1.x	7.0.x	
Dell	Dell Networking S4810	Eth	8.3.x	5.2.x	L3	
Dell	Dell Networking S4810			6.0.x	L3	
Dell	Dell Networking S4810		9.1.x	6.0.x	L3	
Dell	Dell Networking S4810		9.2.x	7.0.x	L3	
Dell	Dell Networking S4810		9.4.x	7.0.x	L3	
Dell	Dell Networking S4810		9.5.x	8.0.x	L3	
Dell	Dell Networking S4810		9.6.x	7.0.x	L3	
Dell	Dell Networking S4810			7.1.x	L3	

Vendor	Model	Type	Switch FW Version	PS OS	SC OS	Notes
Dell	Dell Networking S4810		9.7.x	7.1.x	L3	
Dell	Dell Networking S4810		9.8.x	7.1.x	L3	
Dell	Dell Networking S4810		9.9.x	8.1.x	7.0.x	
Dell	Dell Networking S4810		9.10.x	8.1.x	7.0.x	
Dell	Dell Networking S4820T	Eth	8.3.x	6.0.x	L3	
Dell	Dell Networking S4820T		9.2.x	7.0.x	L3	
Dell	Dell Networking S4820T			8.0.x	L3	
Dell	Dell Networking S4820T		9.4.x	7.0.x	L3	
Dell	Dell Networking S4820T		9.6.x	7.0.x	L3	
Dell	Dell Networking S4820T		9.7.x	7.1.x	L3	
Dell	Dell Networking S4820T		9.8.x	7.1.x	L3	
Dell	Dell Networking S4820T		9.9.x	8.1.x	7.0.x	
Dell	Dell Networking S4820T		9.10.x	8.1.x	7.0.x	
Dell	PowerConnect 81xx Family	Eth	5.0.x	5.2.x	L4	Switches based on DNOS 6.x prior to 6.3.0.3 only support CEE version of DCBx and are not compatible with SC Series Array iSCSI over DCB functionality
Dell	PowerConnect 81xx Family			6.0.x	L4	
Dell	PowerConnect 81xx Family		5.1.x	6.0.x	L4	
Dell	PowerConnect 81xx Family			7.0.x	L4	
Dell	PowerConnect 81xx Family		6.0.x	7.0.x	L4	PowerConnect 81xx switches with DNOS 6.x or later are considered Dell Networking N4000 switches
Dell	PowerEdge IO Aggregator	Eth	9.2.x	6.0.x	L3	
Dell	PowerEdge IO Aggregator			7.0.x	L3	
Dell	PowerEdge IO Aggregator		9.6.x	7.0.x	L3	
Dell	PowerEdge IO Aggregator			8.0.x	L3	
Dell	PowerEdge IO Aggregator		9.7.x	7.1.x	L3	
Dell	PowerEdge IO Aggregator		9.8.x	7.1.x	L3	
Dell	PowerEdge IO Aggregator		9.9.x	8.1.x	7.0.x	
Dell	PowerEdge IO Aggregator		9.10.x	8.1.x	7.0.x	

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4 Host connectivity

Configurations listed in this section are supported at Level 1 for the listed Adapter/NIC operating system/driver/firmware and array firmware combinations. The column titled "SCv" indicates whether the SCv series arrays are supported for that OS-HBA combination. A "Y" means that both SC and SCv series are supported. A blank means that only the SC series is supported.

Note: Unless otherwise noted, the OS-provided native multipath IO functionality for all validations listed.

4.1 Fibre Channel (SC and SCv)

Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
Apple Mac OS X 10.x	LSI 7204EP	OS Built-In		1.3.23.0	6.6.x		L3	
Apple Mac OS X 10.x	LSI 7204EP	OS Built-In		1.3.23.0	6.7.x		L3	
Apple Mac OS X 10.x	LSI 7204EP	OS Built-In		1.3.23.0	7.1.x		L3	
Apple Mac OS X 10.x	LSI 7204EP	OS Built-In		1.3.23.0	7.2.x		L3	
Apple Mac OS X 10.x	LSI 7204EP	OS Built-In		1.3.23.0	7.3.x		L3	
Citrix XenServer 6.2 SP1	Emulex LPe1200x	8.3.7.14	5.13a3	2.01A12	6.6.x		L1	
Citrix XenServer 6.2 SP1	QLogic QXE256x	8.05.00.03.55.6-k	3.27	7.04.00	6.6.x		L1	
Citrix XenServer 6.5	Emulex LPe1200x	10.2.340.0	5.13a3	2.01A12	6.7.x		L1	
Citrix XenServer 6.5	Emulex LPe1200x	10.2.340.0	5.13a11	2.02A1	7.1.x		L1	
Citrix XenServer 6.5	QLogic QXE256x	8.07.00.09.66.5-k	3.27	7.04.00	6.7.x		L1	
Citrix XenServer 6.5	QLogic QXE256x	8.07.00.09.66.5-k	3.29	8.01.02	7.1.x		L1	
Citrix XenServer 7.0	Emulex LPe1200x	11.0.0.12	5.13a11	2.02A1	7.1.x		L1	
Citrix XenServer 7.0	Emulex LPe1200x	11.0.0.12	5.13a11	2.02A1	7.2.x		L1	
Citrix XenServer 7.0	Emulex LPe1200x	11.1.210.1	5.13a11	2.02A1	7.2.x		L1	
Citrix XenServer 7.0	QLogic QXE256x	8.07.00.33.77.0-k	3.29	8.01.02	7.1.x		L1	
Citrix XenServer 7.0	QLogic QXE256x	8.07.00.33.77.0-k	3.29	8.01.02	7.2.x		L1	
Citrix XenServer 7.0	QLogic QXE256x	8.07.00.41.77.1-k	3.29	8.01.02	7.2.x		L1	
Citrix XenServer 7.1	Emulex LPe1200x	11.0.0.12	5.13a11	2.02A1	7.2.x		L1	

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Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
Citrix XenServer 7.1	QLogic QXE256x	8.07.00.33.77.0-k	3.29	8.01.02	7.2.x		L1	
Citrix XenServer 7.2	Emulex LPe1200x	11.1.210.1	5.13a11	2.02A1	7.2.x		L1	
Citrix XenServer 7.2	Emulex LPe1200x	11.1.210.1	11.40a6	2.02a3	7.3.x		L1	
Citrix XenServer 7.2	QLogic QXE256x	8.07.00.41.77.1-k	3.29	8.01.02	7.2.x		L1	
Citrix XenServer 7.2	QLogic QXE256x	8.07.00.41.77.1-k	3.43	8.07.00	7.3.x		L1	
HP HP-UX 11iv3	HP AH401A	B.11.31.1009	2.05	4.4.4	6.6.x		L1	
HP HP-UX 11iv3	HP AH401A	B.11.31.1009	2.22	5.03.15	6.7.x		L1	
HP HP-UX 11iv3	HP AH401A	B.11.31.1009	2.22	5.03.15	7.1.x		L1	
HP HP-UX 11iv3	HP AH401A	B.11.31.1009	2.22	5.03.15	7.2.x		L1	
HP HP-UX 11iv3	HP AH401A	B.11.31.1009	2.22	5.03.15	7.3.x		L1	
HP OpenVMS 8.4	HP FCA2354	2.05	2.22	4.04.004	6.6.x		L1	
HP OpenVMS 8.4	HP FCA2354	2.05	2.22	4.04.004	6.7.x		L1	
HP OpenVMS 8.4	HP FCA2354	2.05	2.22	4.04.004	7.1.x		L1	
HP OpenVMS 8.4	HP FCA2354	2.05	2.22	4.04.004	7.2.x		L1	
HP OpenVMS 8.4	HP FCA2354	2.05	2.22	4.04.004	7.3.x		L1	
IBM AIX 6.1	IBM 577D	6.1.7.0	3.10X2	2.02X7	6.6.x		L3	Tested with Multipath driver MPAIX02.02.00.013
IBM AIX 6.1	IBM 577D	6.1.7.0	3.10X2	2.02X7	7.1.x		L1	Tested with Multipath driver MPAIX03.00.00.007
IBM AIX 6.1	IBM 577D	6.1.9.200	3.10X2	2.02X7	6.7.x		L1	Tested with Multipath driver MPAIX03.00.01.006
IBM AIX 6.1	IBM 577D	6.1.9.200	3.10X2	2.02X7	7.1.x		L1	Tested with Multipath driver MPAIX03.00.01.006
IBM AIX 6.1	IBM 577D	6.1.9.200	3.10X2	2.02X7	7.2.x		L1	Tested with Multipath driver MPAIX03.00.01.006
IBM AIX 6.1	IBM 577D	6.1.9.200	3.10X2	2.02X7	7.3.x		L1	Tested with Multipath driver MPAIX03.00.02.005

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Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
IBM AIX 6.1	IBM 577F	6.1.9.200	3.10X2	1.1.58.4	7.2.x		L1	Tested with Multipath driver MPAIX03.00.01.006
IBM AIX 6.1	IBM 577F	6.1.9.200	3.10X2	1.1.58.4	7.3.x		L1	Tested with Multipath driver MPAIX03.00.02.005
IBM AIX 6.1	IBM 577F	6.1.9.200	3.10X2	2.02X7	6.7.x		L1	Tested with Multipath driver MPAIX03.00.01.006
IBM AIX 6.1	IBM 577F	6.1.9.200	3.10X2	2.02X7	7.1.x		L1	Tested with Multipath driver MPAIX03.00.01.006
IBM AIX 7.1	IBM 577D	7.1.0.22	3.10X2	2.02X7	6.6.x		L3	Tested with Multipath driver MPAIX02.02.00.013
IBM AIX 7.1	IBM 577D	7.1.0.22	3.10X2	2.02X7	7.1.x		L1	Tested with Multipath driver MPAIX03.00.00.007
IBM AIX 7.1	IBM 577D	7.1.4.30	3.10X2	2.02X7	6.7.x		L1	Tested with Multipath driver MPAIX03.00.01.006
IBM AIX 7.1	IBM 577D	7.1.4.30	3.10X2	2.02X7	7.1.x		L1	Tested with Multipath driver MPAIX03.00.01.006
IBM AIX 7.1	IBM 577D	7.1.4.30	3.10X2	2.02X7	7.2.x		L1	Tested with Multipath driver MPAIX03.00.01.006
IBM AIX 7.1	IBM 577D	7.1.4.30	3.10X2	2.02X7	7.3.x		L1	Tested with Multipath driver MPAIX03.00.02.005
IBM AIX 7.1	IBM 577F	7.1.4.30	3.10X2	1.1.58.4	7.2.x		L1	Tested with Multipath driver MPAIX03.00.01.006

Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
IBM AIX 7.1	IBM 577F	7.1.4.30	3.10X2	1.1.58.4	7.3.x		L1	Tested with Multipath driver MPAIX03.00.02.005
IBM AIX 7.1	IBM 577F	7.1.4.30	3.10X2	2.02X7	6.7.x		L1	Tested with Multipath driver MPAIX03.00.01.006
IBM AIX 7.1	IBM 577F	7.1.4.30	3.10X2	2.02X7	7.1.x		L1	Tested with Multipath driver MPAIX03.00.01.006
IBM AIX 7.2	IBM 577D	7.2.1.0	3.10X2	2.02X7	6.7.x		L1	Tested with Multipath driver MPAIX03.00.01.006
IBM AIX 7.2	IBM 577D	7.2.1.0	3.10X2	2.02X7	7.1.x		L1	Tested with Multipath driver MPAIX03.00.01.006
IBM AIX 7.2	IBM 577D	7.2.1.0	3.10X2	2.02X7	7.2.x		L1	Tested with Multipath driver MPAIX03.00.01.006
IBM AIX 7.2	IBM 577D	7.2.1.0	3.10X2	2.02X7	7.3.x		L1	Tested with Multipath driver MPAIX03.00.02.005
IBM AIX 7.2	IBM 577F	7.2.1.1	3.10X2	1.1.58.4	7.2.x		L1	Tested with Multipath driver MPAIX03.00.01.006
IBM AIX 7.2	IBM 577F	7.2.1.1	3.10X2	1.1.58.4	7.3.x		L1	Tested with Multipath driver MPAIX03.00.02.005
IBM AIX 7.2	IBM 577F	7.2.1.1	3.10X2	2.02X7	6.7.x		L1	Tested with Multipath driver MPAIX03.00.01.006
IBM AIX 7.2	IBM 577F	7.2.1.1	3.10X2	2.02X7	7.1.x		L1	Tested with Multipath driver MPAIX03.00.01.006

Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
Microsoft 2008 Windows Server R2 SP1	Cisco VIC-12xx	2.1.0.29	2.2.4b	2.2.4b	6.6.x	Y	L1	
Microsoft 2008 Windows Server R2 SP1	Cisco VIC-13xx	2.1.0.31	2.2.6g	2.2.6g	6.6.x	Y	L1	
Microsoft 2008 Windows Server R2 SP1	Cisco VIC-13xx	2.1.0.31	2.2.8a	2.2.8a	6.6.x	Y	L1	
Microsoft 2008 Windows Server R2 SP1	Cisco VIC-13xx	2.1.0.34	2.2.8d	4.1(2d)	6.7.x	Y	L1	Cisco fw kit: 2.2.8d
Microsoft 2008 Windows Server R2 SP1	Emulex LPe1200x	11.0.247.0	5.12a11	2.01A12	7.2.x	Y	L1	
Microsoft 2008 Windows Server R2 SP1	Emulex LPe1200x	11.2.124.0	11.40a6	2.02a3	7.3.x	Y	L1	
Microsoft 2008 Windows Server R2 SP1	Emulex LPe1200x	11.2.124.0	5.12a11	2.02a3	7.2.x	Y	L1	
Microsoft 2008 Windows Server R2 SP1	Emulex LPe1205	10.2.370.8	6.03X1	2.01A12	6.6.x	Y	L1	
Microsoft 2008 Windows Server R2 SP1	Emulex LPe1205	10.6.114.0	6.03X1	2.01A12	6.7.x	Y	L1	Dell fw kit: 01.06.01
Microsoft 2008 Windows Server R2 SP1	Emulex LPe1205	10.6.114.0	6.03X1	2.01A12	7.1.x	Y	L1	Dell fw kit: 01.06.01
Microsoft 2008 Windows Server R2 SP1	Emulex LPe1205	11.0.247.0	7.00x1	2.01A12	7.1.x	Y	L1	Dell fw kit: 02.00.04

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Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
Microsoft 2008 Windows Server R2 SP1	Emulex LPe1205	11.0.247.0	7.00x1	2.01A12	7.2.x	Y	L1	Dell fw kit: 02.00.04
Microsoft 2008 Windows Server R2 SP1	Emulex LPe1205	11.0.247.0	7.00x1	2.02A1	6.7.x	Y	L1	Dell fw kit: 02.00.04
Microsoft 2008 Windows Server R2 SP1	Emulex LPe1205	11.0.247.0	7.00x1	2.02A1	7.2.x	Y	L1	Dell fw kit: 02.00.04
Microsoft 2008 Windows Server R2 SP1	Emulex LPe1205	11.2.124.0	6.03X1	2.02a3	7.2.x	Y	L1	Dell fw kit: 02.01.01*
Microsoft 2008 Windows Server R2 SP1	Emulex LPe1205	11.2.124.0	6.03X1	2.02a3	7.3.x	Y	L1	Dell fw kit: 02.01.01*
Microsoft 2008 Windows Server R2 SP1	Emulex LPx1500x/LPx1600x	2.76.003.001	KT8.03a15	10.0.803.25	6.6.x	Y	L1	
Microsoft 2008 Windows Server R2 SP1	Emulex LPx1500x/LPx1600x	10.6.114.0	10.6.144.21	10.6.144.21	7.1.x	Y	L1	
Microsoft 2008 Windows Server R2 SP1	Emulex LPx1500x/LPx1600x	10.4.246.0	10.4.255.16	10.4.255.16	6.7.x	Y	L1	
Microsoft 2008 Windows Server R2 SP1	Emulex LPx1500x/LPx1600x	11.0.247.0	11.1.38.61	11.1.38.61	7.1.x	Y	L1	
Microsoft 2008 Windows Server R2 SP1	Emulex LPx1500x/LPx1600x	11.0.247.0	11.1.38.61	11.1.38.61	7.2.x	Y	L1	
Microsoft 2008 Windows Server R2 SP1	Emulex LPx1500x/LPx1600x	11.2.124.0	11.4.142.23	11.4.142.23	7.2.x	Y	L1	

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Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
Microsoft 2008 Windows Server R2 SP1	Emulex LPx1500x/LPx1600x	11.2.124.0	11.4.142.23	11.4.142.23	7.3.x	Y	L1	
Microsoft 2008 Windows Server R2 SP1	QLogic QXE256x	9.1.12.21	3.27	7.04.00	6.6.x	Y	L1	
Microsoft 2008 Windows Server R2 SP1	QLogic QXE256x	9.1.13.20	3.27	7.04.00	6.7.x	Y	L1	
Microsoft 2008 Windows Server R2 SP1	QLogic QXE256x	9.1.15.21	3.29	8.01.02	7.1.x	Y	L1	
Microsoft 2008 Windows Server R2 SP1	QLogic QXE256x	9.1.17.21	3.29	8.01.02	7.1.x	Y	L1	
Microsoft 2008 Windows Server R2 SP1	QLogic QXE256x	9.1.17.21	3.29	8.01.02	7.2.x	Y	L1	
Microsoft 2008 Windows Server R2 SP1	QLogic QXE256x	9.2.3.20	3.29	8.02.00	7.2.x	Y	L1	
Microsoft 2008 Windows Server R2 SP1	QLogic QXE256x	9.2.3.20	3.43	8.01.02	7.2.x	Y	L1	
Microsoft 2008 Windows Server R2 SP1	QLogic QXE256x	9.2.3.20	3.43	8.01.02	7.3.x	Y	L1	
Microsoft 2008 Windows Server R2 SP1	QLogic QXE257x	9.1.8.6	3.31	4.06.01	6.7.x	Y	L1	Dell fw kit: 03.22.08
Microsoft 2008 Windows Server R2 SP1	QLogic QXE257x	9.1.8.6	3.31	4.06.01	7.1.x	Y	L1	Dell fw kit: 03.22.08

Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
Microsoft 2008 Windows Server R2 SP1	QLogic QXE257x	9.1.8.6	3.31	4.06.01	7.2.x	Y	L1	Dell fw kit: 03.22.08
Microsoft 2008 Windows Server R2 SP1	QLogic QXE257x	9.1.12.21	3.24	7.04.00	6.6.x	Y	L1	Dell fw kit: 3.20.06
Microsoft 2008 Windows Server R2 SP1	QLogic QXE257x	9.1.13.20	3.24	7.04.00	6.7.x	Y	L1	Dell fw kit: 3.22.00
Microsoft 2008 Windows Server R2 SP1	QLogic QXE257x	9.1.15.21	3.29	8.01.02	7.1.x	Y	L1	Dell fw kit: 03.22.07
Microsoft 2008 Windows Server R2 SP1	QLogic QXE257x	9.2.3.20	3.4	8.05.00	7.2.x	Y	L1	Dell fw kit: 09.00.03
Microsoft 2008 Windows Server R2 SP1	QLogic QXE257x	9.2.3.20	3.4	8.05.00	7.3.x	Y	L1	Dell fw kit: 09.00.03
Microsoft 2008 Windows Server R2 SP1	QLogic QXE266x	9.1.12.21	3.27	7.04.01	6.6.x	Y	L3	
Microsoft 2008 Windows Server R2 SP1	QLogic QXE266x	9.1.13.20	3.28	8.00.00	6.7.x	Y	L3	
Microsoft 2008 Windows Server R2 SP1	QLogic QXE266x	9.1.15.21	3.29	8.01.02	7.1.x	Y	L3	
Microsoft 2008 Windows Server R2 SP1	QLogic QXE266x	9.1.17.21	3.32	8.03.01	7.1.x	Y	L3	
Microsoft 2008 Windows Server R2 SP1	QLogic QXE266x	9.2.3.20	3.43	8.05.01	7.3.x	Y	L3	

Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
Microsoft 2008 Windows Server R2 SP1	QLogic QXE266x	9.2.3.20	3.32	8.03.01	7.2.x	Y	L1	
Microsoft 2012 Windows Server	Emulex LPx1500x/LPx1600x	10.2.370.8	KT8.03a15	10.0.803.25	6.6.x	Y	L3	
Microsoft 2012 Windows Server	QLogic QXE256x	9.1.12.21	3.27	7.04.00	6.6.x	Y	L1	
Microsoft 2012 Windows Server	QLogic QXE266x	9.1.12.21	3.27	7.04.01	6.6.x	Y	L1	
Microsoft 2012 Windows Server R2	Cisco VIC-12xx	2.4.0.9	2.2.4b	2.2.4b	6.6.x	Y	L1	
Microsoft 2012 Windows Server R2	Cisco VIC-13xx	2.4.0.9	3.0(2c)	3.0(2c)	6.6.x	Y	L1	
Microsoft 2012 Windows Server R2	Cisco VIC-13xx	2.4.0.19	3.1(2b)	3.1(2b)	6.6.x	Y	L1	
Microsoft 2012 Windows Server R2	Cisco VIC-13xx	2.4.0.19	3.1(2b)	4.1(2d)	6.7.x	Y	L1	Cisco fw kit: 3.1(2b)
Microsoft 2012 Windows Server R2	Cisco VIC-13xx	2.4.0.19	2.2.8d	4.1(2d)	6.7.x	Y	L1	Cisco fw kit: 2.2.8d
Microsoft 2012 Windows Server R2	Cisco VIC-13xx	2.4.0.19	3.1(1k)	3.1(1k)	6.6.x	Y	L1	
Microsoft 2012 Windows Server R2	Cisco VIC-13xx	2.4.0.19	3.1(1k)	4.1(1h)	6.7.x	Y	L1	Cisco fw kit: 3.1(1k)
Microsoft 2012 Windows Server R2	Cisco VIC-13xx	2.4.0.19	3.1(2c)	3.1(2c)	6.6.x	Y	L1	
Microsoft 2012 Windows Server R2	Cisco VIC-13xx	2.4.0.19	3.1(1h)	3.1(1h)	6.6.x	Y	L1	
Microsoft 2012 Windows Server R2	Cisco VIC-13xx	2.4.0.19	3.1(1h)	4.1(1f)	6.7.x	Y	L1	Cisco fw kit: 3.1(1h)
Microsoft 2012 Windows Server R2	Cisco VIC-13xx	2.4.0.19	3.1(2b)	4.1(2d)	6.7.x	Y	L1	Cisco fw kit: 3.1(2b)
Microsoft 2012 Windows Server R2	Cisco VIC-13xx	2.4.0.11	2.2.6g	2.2.6g	6.6.x	Y	L1	

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Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
Microsoft 2012 Windows Server R2	Cisco VIC-13xx	2.4.0.13	2.2.8a	2.2.8a	6.6.x	Y	L1	
Microsoft 2012 Windows Server R2	Cisco VIC-13xx	2.4.0.20	3.1(3a)	4.1(3a)	6.7.x	Y	L1	Cisco fw kit: 3.1(3a)
Microsoft 2012 Windows Server R2	Cisco VIC-13xx	2.4.0.20	3.1(3c)	4.1(3a)	7.1.x	Y	L1	Cisco fw kit: 3.1(3c)
Microsoft 2012 Windows Server R2	Emulex LPe1200x	10.6.114.0	5.13a11	2.02A1	6.7.x	Y	L1	
Microsoft 2012 Windows Server R2	Emulex LPe1200x	10.6.114.0	5.13a11	2.02A1	7.1.x	Y	L1	
Microsoft 2012 Windows Server R2	Emulex LPe1200x	11.0.247.0	7.00.a2	2.02A1	7.1.x	Y	L1	
Microsoft 2012 Windows Server R2	Emulex LPe1200x	11.0.247.0	7.00.a2	2.02A1	7.2.x	Y	L1	
Microsoft 2012 Windows Server R2	Emulex LPe1200x	11.4.142.11	5.13a11	2.02a3	7.3.x	Y	L3	
Microsoft 2012 Windows Server R2	Emulex LPx1500x/LPx1600x	10.6.114.0	10.6.144.21	10.6.144.21	6.7.x	Y	L1	
Microsoft 2012 Windows Server R2	Emulex LPx1500x/LPx1600x	10.6.114.0	10.6.144.21	10.6.144.21	7.1.x	Y	L1	
Microsoft 2012 Windows Server R2	Emulex LPx1500x/LPx1600x	10.6.114.0	11.0.270.9	11.0.270.2002	7.1.x	Y	L1	Dell fw kit: 02.00.04
Microsoft 2012 Windows Server R2	Emulex LPx1500x/LPx1600x	10.6.114.0	11.0.270.9	11.0.270.2002	7.2.x	Y	L1	Dell fw kit: 02.00.04
Microsoft 2012 Windows Server R2	Emulex LPx1500x/LPx1600x	10.4.246.0	10.2.506.9	10.2.506.19	6.6.x	Y	L1	
Microsoft 2012 Windows Server R2	Emulex LPx1500x/LPx1600x	11.2.139.0	11.2.216.9	11.2.216.9	7.2.x	Y	L1	Dell fw kit: 02.01.01

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Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
Microsoft 2012 Windows Server R2	Emulex LPx1500x/LPx1600x	11.2.139.0	11.2.216.9	11.2.216.9	7.3.x	Y	L1	Dell fw kit: 02.01.01
Microsoft 2012 Windows Server R2	Emulex LPx3100x/LPx3200x	11.4.142.11	11.4.142.23	11.4.142.23	7.2.x	Y	L1	
Microsoft 2012 Windows Server R2	Emulex LPx3100x/LPx3200x	11.4.142.11	11.4.142.23	11.4.142.23	7.3.x	Y	L1	
Microsoft 2012 Windows Server R2	QLogic QXE256x	9.1.12.21	3.27	7.04.00	6.6.x	Y	L1	
Microsoft 2012 Windows Server R2	QLogic QXE256x	9.1.13.20	3.27	7.04.00	6.7.x	Y	L1	
Microsoft 2012 Windows Server R2	QLogic QXE256x	9.1.15.21	3.29	8.01.02	7.1.x	Y	L1	
Microsoft 2012 Windows Server R2	QLogic QXE256x	9.1.17.21	3.29	8.01.02	7.1.x	Y	L1	
Microsoft 2012 Windows Server R2	QLogic QXE256x	9.1.17.21	3.29	8.01.02	7.2.x	Y	L1	
Microsoft 2012 Windows Server R2	QLogic QXE256x	9.2.3.20	3.29	8.01.02	7.2.x	Y	L1	
Microsoft 2012 Windows Server R2	QLogic QXE256x	9.2.3.20	3.43	8.01.02	7.2.x	Y	L1	
Microsoft 2012 Windows Server R2	QLogic QXE256x	9.2.3.20	3.43	8.01.02	7.3.x	Y	L1	
Microsoft 2012 Windows Server R2	QLogic QXE266x	9.1.12.21	3.24	7.03.00	6.6.x	Y	L1	Dell fw kit: 03.10.07
Microsoft 2012 Windows Server R2	QLogic QXE266x	9.1.12.21	3.27	7.04.01	6.6.x	Y	L1	
Microsoft 2012 Windows Server R2	QLogic QXE266x	9.1.13.20	3.27	7.04.01	6.7.x	Y	L1	
Microsoft 2012 Windows Server R2	QLogic QXE266x	9.1.13.20	3.29	7.04.00	6.7.x	Y	L1	Dell fw kit: 3.11.18
Microsoft 2012 Windows Server R2	QLogic QXE266x	9.1.13.20	3.28	8.00.00	6.7.x	Y	L1	

Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
Microsoft 2012 Windows Server R2	QLogic QXE266x	9.1.15.21	3.29	8.01.02	7.1.x	Y	L1	Dell fw kit: 03.11.25
Microsoft 2012 Windows Server R2	QLogic QXE266x	9.1.17.21	3.32	8.03.01	7.1.x	Y	L1	
Microsoft 2012 Windows Server R2	QLogic QXE266x	9.1.17.21	3.32	8.03.01	7.2.x	Y	L1	
Microsoft 2012 Windows Server R2	QLogic QXE266x	9.2.3.20	3.43	8.05.01	7.2.x	Y	L1	
Microsoft 2012 Windows Server R2	QLogic QXE266x	9.2.3.20	3.43	8.05.01	7.3.x	Y	L1	
Microsoft 2012 Windows Server R2	QLogic QXE266x	9.2.3.20	3.32	8.03.01	7.2.x	Y	L1	
Microsoft 2012 Windows Server R2	QLogic QXE266x	9.1.18.20	3.44	8.03.01	7.1.x	Y	L1	Dell fw kit: 08.00.15
Microsoft 2012 Windows Server R2	QLogic QXE266x	9.1.18.20	3.44	8.03.01	7.2.x	Y	L1	Dell fw kit: 08.00.15
Microsoft 2012 Windows Server R2	QLogic QXE266x	9.2.3.22	3.43	8.05.01	7.2.x	Y	L1	Dell fw kit: 09.00.06
Microsoft 2012 Windows Server R2	QLogic QXE266x	9.2.3.22	3.43	8.05.01	7.3.x	Y	L1	Dell fw kit: 09.00.06
Microsoft 2012 Windows Server R2	QLogic QXE269x	9.2.3.20	3.43	8.05.00	7.2.x	Y	L1	
Microsoft 2012 Windows Server R2	QLogic QXE269x	9.2.3.20	3.43	8.05.00	7.3.x	Y	L1	
Microsoft 2012 Windows Server R2	QLogic QXE269x	9.2.3.20	3.38	8.03.05	7.2.x	Y	L1	
Microsoft 2012 Windows Server R2	QLogic QXE274x	9.1.17.21	3.36	8.03.04	7.1.x	Y	L3	
Microsoft 2012 Windows Server R2	QLogic QXE274x	9.2.3.20	3.43	8.05.00	7.2.x	Y	L1	
Microsoft 2012 Windows Server R2	QLogic QXE274x	9.2.3.20	3.43	8.05.00	7.3.x	Y	L1	
Microsoft 2012 Windows Server R2	QLogic QXE274x	9.2.3.20	3.38	8.03.05	7.2.x	Y	L1	

Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
Microsoft 2016 Windows Server	Cisco VIC-13xx	3.0.0.7	3.1(2b)	3.1(2b)	6.6.x	Y	L1	
Microsoft 2016 Windows Server	Cisco VIC-13xx	3.0.0.7	3.1(2b)	4.1(2d)	6.7.x	Y	L1	Cisco fw kit: 3.1(2b)
Microsoft 2016 Windows Server	Cisco VIC-13xx	3.0.0.7	2.2.8d	4.1(2d)	6.7.x	Y	L1	Cisco fw kit: 2.2.8d
Microsoft 2016 Windows Server	Cisco VIC-13xx	3.0.0.7	3.1(2c)	3.1(2c)	6.6.x	Y	L1	
Microsoft 2016 Windows Server	Cisco VIC-13xx	3.0.0.7	3.1(2b)	4.1(2d)	6.7.x	Y	L1	Cisco fw kit: 3.1(2b)
Microsoft 2016 Windows Server	Cisco VIC-13xx	3.0.0.8	3.1(3a)	4.1(3a)	6.7.x	Y	L1	Cisco fw kit: 3.1(3a)
Microsoft 2016 Windows Server	Cisco VIC-13xx	3.0.0.8	3.1(3c)	4.1(3a)	7.1.x	Y	L1	Cisco fw kit: 3.1(3c)
Microsoft 2016 Windows Server	Emulex LPx1500x/LPx1600x	11.0.247.0	11.0.270.2002	11.0.270.2002	6.7.x	Y	L1	
Microsoft 2016 Windows Server	Emulex LPx1500x/LPx1600x	11.0.247.0	11.0.270.2002	11.0.270.2002	7.1.x	Y	L1	
Microsoft 2016 Windows Server	Emulex LPx1500x/LPx1600x	11.0.247.0	11.0.270.2002	11.0.270.2002	7.2.x	Y	L1	
Microsoft 2016 Windows Server	Emulex LPx3100x/LPx3200x	11.4.142.11	11.4.142.23	11.4.142.23	7.2.x	Y	L1	
Microsoft 2016 Windows Server	Emulex LPx3100x/LPx3200x	11.4.142.11	11.4.142.23	11.4.142.23	7.3.x	Y	L1	
Microsoft 2016 Windows Server	QLogic QXE256x	9.1.17.21	3.29	8.01.02	6.7.x	Y	L1	
Microsoft 2016 Windows Server	QLogic QXE256x	9.1.17.21	3.29	8.01.02	7.1.x	Y	L1	
Microsoft 2016 Windows Server	QLogic QXE256x	9.1.17.21	3.29	8.01.02	7.2.x	Y	L1	

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Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
Microsoft 2016 Windows Server	QLogic QXE256x	9.2.3.20	3.29	8.01.02	7.2.x	Y	L1	
Microsoft 2016 Windows Server	QLogic QXE256x	9.2.3.20	3.43	8.01.02	7.2.x	Y	L1	
Microsoft 2016 Windows Server	QLogic QXE256x	9.2.3.20	3.43	8.01.02	7.3.x	Y	L1	
Microsoft 2016 Windows Server	QLogic QXE266x	9.1.17.21	3.32	8.03.01	6.7.x	Y	L1	
Microsoft 2016 Windows Server	QLogic QXE266x	9.1.17.21	3.32	8.03.01	7.1.x	Y	L1	
Microsoft 2016 Windows Server	QLogic QXE266x	9.1.17.21	3.32	8.03.01	7.2.x	Y	L1	
Microsoft 2016 Windows Server	QLogic QXE266x	9.2.3.20	3.43	8.05.01	7.2.x	Y	L1	
Microsoft 2016 Windows Server	QLogic QXE266x	9.2.3.20	3.43	8.05.01	7.3.x	Y	L1	
Microsoft 2016 Windows Server	QLogic QXE266x	9.2.3.20	3.32	8.03.01	7.2.x	Y	L1	
Microsoft 2016 Windows Server	QLogic QXE269x	9.2.3.20	3.43	8.05.00	7.2.x	Y	L1	
Microsoft 2016 Windows Server	QLogic QXE269x	9.2.3.20	3.43	8.05.00	7.3.x	Y	L1	
Microsoft 2016 Windows Server	QLogic QXE274x	9.2.3.20	3.43	8.05.00	7.2.x	Y	L1	
Microsoft 2016 Windows Server	QLogic QXE274x	9.2.3.20	3.43	8.05.00	7.3.x	Y	L1	
Novell SLES 11 SP3	QLogic QXE266x	8.04.00.13.11.3-k	3.27	7.04.01	6.6.x	Y	L1	
Novell SLES 11 SP3	QLogic QXE266x	8.04.00.13.11.3-k	3.28	8.00.00	6.7.x	Y	L1	
Novell SLES 11 SP4	QLogic QXE266x	8.07.00.18-k	3.29	8.01.02	6.7.x	Y	L1	
Novell SLES 11 SP4	QLogic QXE266x	8.07.00.18-k	3.29	8.01.02	7.1.x	Y	L1	
Novell SLES 11 SP4	QLogic QXE266x	8.07.00.18-k	3.29	8.01.02	7.2.x	Y	L1	
Novell SLES 11 SP4	QLogic QXE266x	8.07.00.18-k	3.43	8.05.01	7.3.x	Y	L1	
Novell SLES 11 SP4	QLogic QXE266x	8.07.00.18-k	3.32	8.03.01	7.2.x	Y	L1	
Novell SLES 12	Emulex LPe1200x	10.2.8040.1	5.13a0	2.01A12	6.6.x	Y	L1	

Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
Novell SLES 12	Emulex LPe1200x	10.2.8040.1	5.13a0	2.01A12	6.7.x	Y	L1	
Novell SLES 12 SP1	Emulex LPe1200x	10.5.0.2	5.13a11	2.02A1	6.7.x	Y	L1	
Novell SLES 12 SP1	Emulex LPe1200x	10.5.0.2	5.13a11	2.02A1	7.1.x	Y	L1	
Novell SLES 12 SP1	Emulex LPe1200x	10.5.0.2	5.13a11	2.02A1	7.2.x	Y	L1	
Novell SLES 12 SP1	Emulex LPe1200x	10.5.0.2	7.00a2	2.02A1	7.2.x	Y	L1	
Novell SLES 12 SP1	Emulex LPe1200x	11.1.0.1	5.13a11	2.02A1	7.2.x	Y	L1	
Novell SLES 12 SP1	Emulex LPe1200x	11.4.0.1	11.40a6	2.02a3	7.3.x	Y	L1	
Oracle Linux Server 6.5 UEK	QLogic QXE266x	8.05.00.03.39.0-k	3.24	7.00.01	6.6.x		L1	
Oracle Linux Server 6.5 UEK	QLogic QXE266x	8.05.00.03.39.0-k	3.24	7.03.00	6.7.x		L1	
Oracle Linux Server 7.0 UEK	QLogic QXE256x	8.07.00.16.39.0-k	3.24	7.05.00	6.7.x		L1	
Oracle Linux Server 7.0 UEK	QLogic QXE256x	8.07.00.16.39.0-k	3.23	7.00.01	6.6.x		L1	
Oracle Linux Server 7.0 UEK	QLogic QXE266x	8.07.00.16.39.0-k	3.24	7.00.01	6.6.x		L1	
Oracle Linux Server 7.0 UEK	QLogic QXE266x	8.07.00.16.39.0-k	3.24	7.03.00	6.7.x		L1	
Oracle Linux Server 7.2 UEK	QLogic QXE256x	8.07.00.26.39.0-k	3.24	8.02.00	7.1.x		L1	
Oracle Linux Server 7.2 UEK	QLogic QXE266x	8.07.00.26.39.0-k	3.24	7.03.00	7.1.x		L1	
Oracle Linux Server 7.3 UEK	Emulex LPx1500x/LPx1600x	11.1.0.4	11.0.270.9	11.0.270.2002	6.7.x		L1	
Oracle Linux Server 7.3 UEK	Emulex LPx1500x/LPx1600x	11.1.0.4	11.0.270.9	11.0.270.2002	7.1.x		L1	
Oracle Linux Server 7.3 UEK	Emulex LPx1500x/LPx1600x	11.1.0.4	11.0.270.9	11.0.270.2002	7.2.x		L1	

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Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
Oracle Linux Server 7.3 UEK	Emulex LPx3100x/LPx3200x	11.1.0.4	11.0.270.9	11.0.270.18	6.7.x		L1	
Oracle Linux Server 7.3 UEK	Emulex LPx3100x/LPx3200x	11.1.0.4	11.0.270.9	11.0.270.18	7.1.x		L1	
Oracle Linux Server 7.3 UEK	Emulex LPx3100x/LPx3200x	11.1.0.4	11.0.270.9	11.0.270.18	7.2.x		L1	
Oracle Linux Server 7.3 UEK	QLogic QXE256x	8.07.00.38.40.0-k	3.29	8.01.02	6.7.x		L1	
Oracle Linux Server 7.3 UEK	QLogic QXE256x	8.07.00.38.40.0-k	3.29	8.01.02	7.1.x		L1	
Oracle Linux Server 7.3 UEK	QLogic QXE256x	8.07.00.38.40.0-k	3.29	8.01.02	7.2.x		L1	
Oracle Linux Server 7.3 UEK	QLogic QXE266x	8.07.00.38.40.0-k	3.32	8.03.01	6.7.x		L1	
Oracle Linux Server 7.3 UEK	QLogic QXE266x	8.07.00.38.40.0-k	3.32	8.03.01	7.1.x		L1	
Oracle Linux Server 7.3 UEK	QLogic QXE266x	8.07.00.38.40.0-k	3.32	8.03.01	7.2.x		L1	
Oracle Linux Server 7.4 UEK	Emulex LPx1500x/LPx1600x	11.1.0.4	11.0.270.9	11.0.270.2002	7.3.x		L1	
Oracle Linux Server 7.4 UEK	Emulex LPx3100x/LPx3200x	11.1.0.4	11.0.270.9	11.0.270.18	7.3.x		L1	
Oracle Linux Server 7.4 UEK	QLogic QXE256x	8.07.00.38.40.0-k	3.29	8.01.02	7.3.x		L1	
Oracle Linux Server 7.4 UEK	QLogic QXE266x	8.07.00.38.40.0-k	3.32	8.03.01	7.3.x		L1	
Oracle Linux Server 7.4 UEK	QLogic QXE269x	8.07.00.38.40.0-k	3.43	8.05.00	7.2.x		L1	Dell fw kit: 09.00.06
Oracle Linux Server 7.4 UEK	QLogic QXE269x	8.07.00.38.40.0-k	3.43	8.05.00	7.3.x		L1	Dell fw kit: 09.00.06

Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
Oracle Linux Server 7.4 UEK	QLogic QXE274x	8.07.00.38.40.0-k	3.43	8.05.00	7.2.x		L1	Dell fw kit: 09.00.06
Oracle Linux Server 7.4 UEK	QLogic QXE274x	8.07.00.38.40.0-k	3.43	8.05.00	7.3.x		L1	Dell fw kit: 09.00.06
Oracle OVM 3.3.1	QLogic QXE256x	8.07.00.16.39.0-k	3.23	7.01.00	6.7.x		L3	
Oracle OVM 3.3.1	QLogic QXE266x	8.07.00.16.39.0-k	3.24	7.00.01	6.7.x		L3	
Oracle OVM 3.4.1	QLogic QXE256x	8.07.00.26.39.0-k	3.23	7.01.00	7.1.x		L3	
Oracle OVM 3.4.1	QLogic QXE266x	8.07.00.26.39.0-k	3.24	7.00.01	7.1.x		L3	
Oracle OVM 3.4.2	Emulex LPx1500x/LPx1600x	11.1.0.4	11.0.270.9	11.0.270.2002	6.7.x		L1	
Oracle OVM 3.4.2	Emulex LPx1500x/LPx1600x	11.1.0.4	11.0.270.9	11.0.270.2002	7.1.x		L1	
Oracle OVM 3.4.2	Emulex LPx1500x/LPx1600x	11.1.0.4	11.0.270.9	11.0.270.2002	7.2.x		L1	
Oracle OVM 3.4.2	QLogic QXE256x	8.07.00.38.40.0-k	3.29	8.01.02	6.7.x		L3	
Oracle OVM 3.4.2	QLogic QXE256x	8.07.00.38.40.0-k	3.29	8.01.02	7.1.x		L3	
Oracle OVM 3.4.2	QLogic QXE256x	8.07.00.38.40.0-k	3.29	8.01.02	7.2.x		L3	
Oracle OVM 3.4.2	QLogic QXE266x	8.07.00.38.40.0-k	3.32	8.03.01	6.7.x		L3	
Oracle OVM 3.4.2	QLogic QXE266x	8.07.00.38.40.0-k	3.32	8.03.01	7.1.x		L3	
Oracle OVM 3.4.2	QLogic QXE266x	8.07.00.38.40.0-k	3.32	8.03.01	7.2.x		L3	
Oracle OVM 3.4.4	Emulex LPx1500x/LPx1600x	11.1.0.4	11.0.270.9	11.0.270.2002	7.3.x		L1	
Oracle OVM 3.4.4	QLogic QXE256x	8.07.00.38.40.0-k	3.29	8.01.02	7.3.x		L3	
Oracle OVM 3.4.4	QLogic QXE266x	8.07.00.38.40.0-k	3.32	8.03.01	7.3.x		L3	
Oracle Solaris 10 SPARC	QLogic QXE256x	v20110825-3.06	3.27	7.04.00	6.7.x		L1	
Oracle Solaris 10 SPARC	QLogic QXE256x	v20110825-3.06	3.27	7.04.00	7.1.x		L1	

Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
Oracle Solaris 10 SPARC	QLogic QXE256x	v20110825-3.06	3.27	7.04.00	7.2.x		L1	
Oracle Solaris 10 SPARC	QLogic QXE256x	v20110825-3.06	3.27	7.04.00	7.3.x		L1	
Oracle Solaris 10 SPARC	QLogic QXE256x	v20110825-3.06	3.19	5.07.00	6.6.x		L1	
Oracle Solaris 10 x86_64	QLogic QXE256x	v20110825-3.06	3.2	5.06.00	6.6.x		L1	
Oracle Solaris 10 x86_64	QLogic QXE256x	v20110825-3.06	3.2	5.09.00	6.7.x		L1	
Oracle Solaris 10 x86_64	QLogic QXE256x	v20110825-3.06	3.2	5.09.00	7.1.x		L1	
Oracle Solaris 10 x86_64	QLogic QXE256x	v20110825-3.06	3.2	5.09.00	7.2.x		L1	
Oracle Solaris 10 x86_64	QLogic QXE256x	v20110825-3.06	3.2	5.09.00	7.3.x		L1	
Oracle Solaris 11 SPARC	QLogic QXE256x	v20120717-4.01	3.27	7.04.00	6.7.x		L1	
Oracle Solaris 11 SPARC	QLogic QXE256x	v20120717-4.01	3.27	7.04.00	7.1.x		L1	
Oracle Solaris 11 SPARC	QLogic QXE256x	v20120717-4.01	3.27	7.04.00	7.2.x		L1	
Oracle Solaris 11 SPARC	QLogic QXE256x	v20120717-4.01	3.27	7.04.00	7.3.x		L1	
Oracle Solaris 11 SPARC	QLogic QXE256x	v20120717-4.01	3.19	5.07.00	6.6.x		L1	
Oracle Solaris 11 x86_64	Emulex LPe1200x	v20120210-2.70i	5.13a3	2.01a11	6.7.x		L1	
Oracle Solaris 11 x86_64	Emulex LPe1200x	v20120210-2.70i	5.13a3	2.01a11	7.1.x		L1	
Oracle Solaris 11 x86_64	Emulex LPe1200x	v20120210-2.70i	5.13a3	2.01a11	7.2.x		L1	
Oracle Solaris 11 x86_64	Emulex LPe1200x	v20120210-2.70i	5.13a3	2.01a11	7.3.x		L1	

Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
Oracle Solaris 11 x86_64	Emulex LPe1200x	v20120210-2.70i	5.12a12	2.01a11	6.6.x		L1	
Red Hat RHEL 5.11 x64	Emulex LPe1200x	8.2.0.128.3p	5.13a0	2.01A12	6.6.x		L1	
Red Hat RHEL 5.11 x64	Emulex LPe1200x	8.2.0.128.3p	5.13a3	2.01A12	6.6.x		L1	
Red Hat RHEL 5.11 x64	QLogic QXE256x	8.03.07.15.05.09-k	3.27	7.04.00	6.6.x		L1	
Red Hat RHEL 6.6 x64	Emulex LPe1200x	8.3.5.68.5p	5.13a3	2.01A12	6.6.x	Y	L1	
Red Hat RHEL 6.6 x64	Emulex LPe1200x	8.3.5.68.5p	5.13a10	2.01A12	6.7.x	Y	L1	
Red Hat RHEL 6.6 x64	QLogic QXE256x	8.04.00.08.06.4-k	3.27	7.04.00	6.6.x	Y	L1	
Red Hat RHEL 6.6 x64	QLogic QXE256x	8.05.00.03.06.5-k2	3.27	7.04.00	6.7.x	Y	L1	
Red Hat RHEL 6.7 x64	Cisco VIC-13xx	1.6.0.17a	2.2.6g	2.2.6g	6.6.x	Y	L1	
Red Hat RHEL 6.7 x64	Cisco VIC-13xx	1.6.0.25	2.2.8a	2.2.8a	6.6.x	Y	L1	
Red Hat RHEL 6.7 x64	Emulex LPe1200x	10.6.0.20	5.13a11	2.02A1	6.7.x	Y	L1	
Red Hat RHEL 6.7 x64	Emulex LPe1200x	10.6.0.20	5.13a11	2.02A1	7.1.x	Y	L1	
Red Hat RHEL 6.7 x64	Emulex LPe1200x	10.6.0.20	7.00a2	2.02A1	7.2.x	Y	L1	
Red Hat RHEL 6.7 x64	QLogic QXE256x	8.07.00.16.06.7-k	3.29	8.01.02	6.7.x	Y	L1	
Red Hat RHEL 6.7 x64	QLogic QXE256x	8.07.00.16.06.7-k	3.29	8.01.02	7.1.x	Y	L1	
Red Hat RHEL 6.7 x64	QLogic QXE256x	8.07.00.16.06.7-k	3.29	8.01.02	7.2.x	Y	L1	
Red Hat RHEL 6.8 x64	Cisco VIC-13xx	1.6.0.27	3.1(2b)	3.1(2b)	6.6.x	Y	L1	
Red Hat RHEL 6.8 x64	Cisco VIC-13xx	1.6.0.27	3.1(2b)	4.1(2d)	6.7.x	Y	L1	Cisco fw kit: 3.1(2b)
Red Hat RHEL 6.8 x64	Cisco VIC-13xx	1.6.0.27	2.2.8d	4.1(2d)	6.7.x	Y	L1	Cisco fw kit: 2.2.8d
Red Hat RHEL 6.8 x64	Cisco VIC-13xx	1.6.0.27	3.1(1k)	3.1(1k)	6.6.x	Y	L1	
Red Hat RHEL 6.8 x64	Cisco VIC-13xx	1.6.0.27	3.1(1k)	4.1(1h)	6.7.x	Y	L1	Cisco fw kit: 3.1(1k)
Red Hat RHEL 6.8 x64	Cisco VIC-13xx	1.6.0.27	3.1(2c)	3.1(2c)	6.6.x	Y	L1	
Red Hat RHEL 6.8 x64	Cisco VIC-13xx	1.6.0.27	3.1(1h)	3.1(1h)	6.6.x	Y	L1	
Red Hat RHEL 6.8 x64	Cisco VIC-13xx	1.6.0.27	3.1(1h)	4.1(1f)	6.7.x	Y	L1	Cisco fw kit: 3.1(1h)
Red Hat RHEL 6.8 x64	Cisco VIC-13xx	1.6.0.27	3.1(2b)	4.1(2d)	6.7.x	Y	L1	Cisco fw kit: 3.1(2b)
Red Hat RHEL 6.8 x64	Cisco VIC-13xx	1.6.0.34	3.1(3a)	4.1(3a)	6.7.x	Y	L1	Cisco fw kit: 3.1(3a)
Red Hat RHEL 6.8 x64	Emulex LPe1200x	11.0.0.4	5.13a11	2.02A1	7.2.x	Y	L1	

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Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
Red Hat RHEL 6.8 x64	Emulex LPe1200x	11.0.0.4	7.00a2	2.02A1	6.7.x	Y	L1	
Red Hat RHEL 6.8 x64	Emulex LPe1200x	11.0.0.4	7.00a2	2.02A1	7.1.x	Y	L1	
Red Hat RHEL 6.8 x64	Emulex LPe1200x	11.0.0.4	7.00a2	2.02A1	7.2.x	Y	L1	
Red Hat RHEL 6.8 x64	QLogic QXE256x	8.07.00.16.06.7-k	3.29	8.01.02	6.7.x	Y	L1	
Red Hat RHEL 6.8 x64	QLogic QXE256x	8.07.00.16.06.7-k	3.29	8.01.02	7.1.x	Y	L1	
Red Hat RHEL 6.8 x64	QLogic QXE256x	8.07.00.16.06.7-k	3.29	8.01.02	7.2.x	Y	L1	
Red Hat RHEL 6.9 x64	Cisco VIC-13xx	1.6.0.34	3.1(3c)	4.1(3a)	7.1.x	Y	L1	Cisco fw kit: 3.1(3c)
Red Hat RHEL 6.9 x64	Emulex LPe1200x	11.0.0.6	5.13a11	2.02A1	7.2.x	Y	L1	
Red Hat RHEL 6.9 x64	Emulex LPe1200x	11.0.0.6	11.40a6	2.02a3	7.3.x	Y	L1	
Red Hat RHEL 6.9 x64	Emulex LPx1500x/LPx1600x	11.0.0.6	11.2.216.9	11.2.216.9	7.3.x	Y	L1	
Red Hat RHEL 6.9 x64	Emulex LPx1500x/LPx1600x	11.0.0.6	11.0.270.14	11.0.270.2002	7.2.x	Y	L1	
Red Hat RHEL 6.9 x64	QLogic QXE256x	8.07.00.26.06.8-k	3.29	8.01.02	7.2.x	Y	L1	
Red Hat RHEL 6.9 x64	QLogic QXE256x	8.07.00.26.06.8-k	3.43	8.07.00	7.3.x	Y	L1	
Red Hat RHEL 6.9 x64	QLogic QXE266x	8.07.00.26.06.8-k	3.24	7.03.00	7.3.x	Y	L1	
Red Hat RHEL 6.9 x64	QLogic QXE266x	8.07.00.26.06.8-k	3.17	6.04.00	7.2.x	Y	L1	
Red Hat RHEL 7.0 x64	Cisco VIC-12xx	1.6.0.18	2.2.4b	2.2.4b	6.6.x	Y	L1	
Red Hat RHEL 7.0 x64	QLogic QXE266x	8.06.00.08.07.0-k2	3.27	7.04.01	6.6.x	Y	L1	
Red Hat RHEL 7.1 x64	Emulex LPe1200x	10.2.8021.1	5.13a3	2.01A12	6.7.x	Y	L1	
Red Hat RHEL 7.1 x64	QLogic QXE256x	8.07.00.08.07.1-k2	3.27	7.04.00	6.7.x	Y	L1	
Red Hat RHEL 7.1 x64	QLogic QXE266x	8.07.00.08.07.1-k2	3.28	8.00.00	6.7.x	Y	L1	
Red Hat RHEL 7.2 x64	Cisco VIC-13xx	1.6.0.25	2.2.8a	2.2.8a	6.6.x	Y	L1	
Red Hat RHEL 7.2 x64	Cisco VIC-13xx	1.6.0.25	2.2.8d	4.1(2d)	6.7.x	Y	L1	Cisco fw kit: 2.2.8d
Red Hat RHEL 7.2 x64	Cisco VIC-13xx	1.6.0.25	3.1(1k)	3.1(1k)	6.6.x	Y	L1	
Red Hat RHEL 7.2 x64	Cisco VIC-13xx	1.6.0.25	3.1(1h)	3.0(2f)	6.6.x	Y	L1	Cisco fw kit: 3.1(1h)
Red Hat RHEL 7.2 x64	Cisco VIC-13xx	1.6.0.25	3.1(1h)	4.1(1f)	6.7.x	Y	L1	Cisco fw kit: 3.1(1h)
Red Hat RHEL 7.2 x64	Cisco VIC-13xx	1.6.0.27	3.1(2b)	3.1(2b)	6.6.x	Y	L1	
Red Hat RHEL 7.2 x64	Cisco VIC-13xx	1.6.0.27	3.1(2c)	3.1(2c)	6.6.x	Y	L1	

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Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
Red Hat RHEL 7.2 x64	Cisco VIC-13xx	1.6.0.23	2.2.6g	3.1(1h)	6.6.x	Y	L1	Cisco fw kit: 2.2.6g
Red Hat RHEL 7.2 x64	Cisco VIC-13xx	1.6.0.17	3.0(2c)	3.0(2c)	6.6.x	Y	L1	
Red Hat RHEL 7.2 x64	Emulex LPe1200x	10.7.0.1	5.13a11	2.02A1	6.7.x	Y	L1	
Red Hat RHEL 7.2 x64	Emulex LPe1200x	10.7.0.1	5.13a11	2.02A1	7.1.x	Y	L1	
Red Hat RHEL 7.2 x64	Emulex LPe1200x	10.7.0.1	7.00a2	2.02A1	7.2.x	Y	L1	
Red Hat RHEL 7.2 x64	QLogic QXE256x	8.07.00.18.07.2-k	3.29	8.01.02	6.7.x	Y	L1	
Red Hat RHEL 7.2 x64	QLogic QXE256x	8.07.00.18.07.2-k	3.29	8.01.02	7.1.x	Y	L1	
Red Hat RHEL 7.2 x64	QLogic QXE256x	8.07.00.18.07.2-k	3.29	8.01.02	7.2.x	Y	L1	
Red Hat RHEL 7.2 x64	QLogic QXE266x	8.07.00.18.07.2-k	3.29	8.01.02	6.7.x	Y	L1	
Red Hat RHEL 7.2 x64	QLogic QXE266x	8.07.00.18.07.2-k	3.29	8.01.02	7.1.x	Y	L1	
Red Hat RHEL 7.2 x64	QLogic QXE266x	8.07.00.18.07.2-k	3.29	8.01.02	7.2.x	Y	L1	
Red Hat RHEL 7.3 x64	Cisco VIC-13xx	1.6.0.25	3.1(1k)	4.1(1h)	6.7.x	Y	L1	Cisco fw kit: 3.1(1k)
Red Hat RHEL 7.3 x64	Cisco VIC-13xx	1.6.0.34	3.1(3a)	4.1(3a)	6.7.x	Y	L1	Cisco fw kit: 3.1(3a)
Red Hat RHEL 7.3 x64	Cisco VIC-13xx	1.6.0.30	3.1(2b)	4.1(2d)	6.7.x	Y	L1	Cisco fw kit: 3.1(2b)
Red Hat RHEL 7.3 x64	Cisco VIC-13xx	1.6.0.30	3.1(2b)	4.1(2d)	6.7.x	Y	L1	Cisco fw kit: 3.1(2b)
Red Hat RHEL 7.3 x64	Emulex LPe1200x	10.7.0.1	5.13a11	2.02A1	7.2.x	Y	L1	
Red Hat RHEL 7.3 x64	Emulex LPe1200x	10.7.0.1	7.00a2	2.02A1	6.7.x	Y	L1	
Red Hat RHEL 7.3 x64	Emulex LPe1200x	10.7.0.1	7.00a2	2.02A1	7.1.x	Y	L1	
Red Hat RHEL 7.3 x64	Emulex LPe1200x	10.7.0.1	7.00a2	2.02A1	7.2.x	Y	L1	
Red Hat RHEL 7.3 x64	QLogic QXE256x	8.07.00.18.07.2-k	3.29	8.01.02	6.7.x	Y	L1	
Red Hat RHEL 7.3 x64	QLogic QXE256x	8.07.00.18.07.2-k	3.29	8.01.02	7.1.x	Y	L1	
Red Hat RHEL 7.3 x64	QLogic QXE256x	8.07.00.18.07.2-k	3.29	8.01.02	7.2.x	Y	L1	
Red Hat RHEL 7.3 x64	QLogic QXE266x	8.07.00.18.07.2-k	3.29	8.01.02	6.7.x	Y	L1	
Red Hat RHEL 7.3 x64	QLogic QXE266x	8.07.00.18.07.2-k	3.29	8.01.02	7.1.x	Y	L1	
Red Hat RHEL 7.3 x64	QLogic QXE266x	8.07.00.18.07.2-k	3.29	8.01.02	7.2.x	Y	L1	
Red Hat RHEL 7.4 x64	Cisco VIC-13xx	1.6.0.34	3.1(3c)	4.1(3a)	7.1.x	Y	L1	Cisco fw kit: 3.1(3c)
Red Hat RHEL 7.4 x64	Emulex LPe1200x	11.2.0.6	5.13a11	2.02A1	7.2.x	Y	L1	
Red Hat RHEL 7.4 x64	Emulex LPe1200x	11.2.0.6	11.40a6	2.02a3	7.3.x	Y	L1	

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Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
Red Hat RHEL 7.4 x64	Emulex LPx1500x/LPx1600x	11.2.0.6	11.2.216.9	11.2.216.9	7.3.x	Y	L1	
Red Hat RHEL 7.4 x64	Emulex LPx1500x/LPx1600x	11.2.0.6	11.0.270.14	11.0.270.2002	7.2.x	Y	L1	
Red Hat RHEL 7.4 x64	Emulex LPx3100x/LPx3200x	11.2.0.6	11.4.165.16	11.4.165.16	7.3.x	Y	L1	Dell fw kit: 02.02.01
Red Hat RHEL 7.4 x64	Emulex LPx3100x/LPx3200x	11.2.156.20	11.2.216.9	11.2.216.9	7.2.x	Y	L1	Dell fw kit: 02.00.04
Red Hat RHEL 7.4 x64	QLogic QXE256x	8.07.00.38.07.4-k1	3.29	8.01.02	7.2.x	Y	L1	
Red Hat RHEL 7.4 x64	QLogic QXE256x	8.07.00.38.07.4-k1	3.43	8.07.00	7.3.x	Y	L1	
Red Hat RHEL 7.4 x64	QLogic QXE266x	8.07.00.38.07.4-k1	3.43	8.07.12	7.3.x	Y	L1	
Red Hat RHEL 7.4 x64	QLogic QXE266x	8.07.00.38.07.4-k1	3.32	8.03.01	7.2.x	Y	L1	
Red Hat RHEL 7.4 x64	QLogic QXE269x	8.07.00.38.07.4-k1	3.38	8.03.05	7.2.x	Y	L1	Dell fw kit: 08.00.15
Red Hat RHEL 7.4 x64	QLogic QXE269x	8.07.00.38.07.4-k1	3.38	8.03.05	7.3.x	Y	L1	Dell fw kit: 08.00.15
Red Hat RHEL 7.4 x64	QLogic QXE274x	8.07.00.38.07.4-k1	3.38	8.03.05	7.2.x	Y	L1	Dell fw kit: 08.00.14
Red Hat RHEL 7.4 x64	QLogic QXE274x	8.07.00.38.07.4-k1	3.38	8.03.05	7.3.x	Y	L1	Dell fw kit: 08.00.14
VMWare ESXi 5.1	Emulex LPe1205	10.2.459.0	6.03X1	2.01A12	6.6.x		L1	Dell fw kit: 1.05.01
VMWare ESXi 5.1	QLogic QXE257x	934.5.45.0	3.24	7.03.00	6.6.x		L1	Dell fw kit: 03.21.04
VMWare ESXi 5.5	Cisco VIC-12xx	1.6.0.17a	2.2.4b	2.2.4b	6.6.x	Y	L1	
VMWare ESXi 5.5	Cisco VIC-13xx	1.6.0.25	2.2.8a	2.2.8a	6.6.x	Y	L1	
VMWare ESXi 5.5	Cisco VIC-13xx	1.6.0.28	3.1(2b)	3.1(2b)	6.6.x	Y	L1	
VMWare ESXi 5.5	Cisco VIC-13xx	1.6.0.28	2.2.8d	4.1(2d)	6.7.x	Y	L1	Cisco fw kit: 2.2.8d
VMWare ESXi 5.5	Cisco VIC-13xx	1.6.0.28	3.1(1k)	3.1(1k)	6.6.x	Y	L1	
VMWare ESXi 5.5	Cisco VIC-13xx	1.6.0.28	3.1(1k)	4.1(1h)	6.7.x	Y	L1	Cisco fw kit: 3.1(1k)
VMWare ESXi 5.5	Cisco VIC-13xx	1.6.0.28	3.1(2c)	3.1(2c)	6.6.x	Y	L1	
VMWare ESXi 5.5	Cisco VIC-13xx	1.6.0.28	3.1(1h)	3.1(1h)	6.6.x	Y	L1	
VMWare ESXi 5.5	Cisco VIC-13xx	1.6.0.28	3.1(1h)	4.1(1f)	6.7.x	Y	L1	Cisco fw kit: 3.1(1h)
VMWare ESXi 5.5	Cisco VIC-13xx	1.6.0.16	3.0(2c)	3.0(2c)	6.6.x	Y	L1	

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VMWare ESXi 5.5	Cisco VIC-13xx	1.6.0.16	3.0(2c)	3.0(2c)	6.7.x	Y	L1	
VMWare ESXi 5.5	Cisco VIC-13xx	1.6.0.24	2.2.6g	2.2.6g	6.6.x	Y	L1	
VMWare ESXi 5.5	Emulex LPe1205	10.2.455.0	6.03X1	2.01A12	6.6.x	Y	L1	Dell fw kit: 1.05.01
VMWare ESXi 5.5	Emulex LPx1500x/LPx1600x	10.4.246.0	10.2.506.19	10.2.506.19	6.6.x	Y	L1	
VMWare ESXi 5.5	Emulex LPx1500x/LPx1600x	10.6.126.0	10.6.133.18	10.6.133.18	6.7.x	Y	L1	Dell fw kit: 01.06.01
VMWare ESXi 5.5	Emulex LPx1500x/LPx1600x	10.6.126.0	10.6.133.18	10.6.133.18	7.1.x	Y	L1	Dell fw kit: 01.06.01
VMWare ESXi 5.5	Emulex LPx1500x/LPx1600x	10.4.245.0	10.2.470.7	10.2.470.14	6.6.x	Y	L1	Dell fw kit: 10.2.506.19
VMWare ESXi 5.5	Emulex LPx1500x/LPx1600x	10.2.455.0	10.2.495.0	10.2.506.19	6.6.x	Y	L1	
VMWare ESXi 5.5	Emulex LPx1500x/LPx1600x	11.1.145.18	11.0.270.9	11.0.270.2002	6.7.x	Y	L1	Dell fw kit: 02.00.04
VMWare ESXi 5.5	Emulex LPx1500x/LPx1600x	11.1.145.18	11.0.270.9	11.0.270.2002	7.1.x	Y	L1	Dell fw kit: 02.00.04
VMWare ESXi 5.5	Emulex LPx1500x/LPx1600x	11.1.145.18	11.0.270.9	11.0.270.2002	7.2.x	Y	L1	Dell fw kit: 02.00.04
VMWare ESXi 5.5	Emulex LPx1500x/LPx1600x	11.1.145.18	11.2.216.9	11.2.216.9	7.2.x	Y	L1	Dell fw kit: 02.01.01
VMWare ESXi 5.5	Emulex LPx1500x/LPx1600x	11.1.145.18	11.2.216.9	11.2.216.9	7.3.x	Y	L1	Dell fw kit: 02.01.01
VMWare ESXi 5.5	QLogic QXE257x	1.1.41.0	3.24	7.03.00	6.6.x	Y	L1	Dell fw kit: 03.21.04

Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
VMWare ESXi 5.5	QLogic QXE257x	1.1.55.0	3.24	7.04.00	6.7.x	Y	L1	Dell fw kit: 3.22.00
VMWare ESXi 5.5	QLogic QXE257x	1.1.55.0	3.29	8.01.02	7.1.x	Y	L1	Dell fw kit: 03.22.07
VMWare ESXi 5.5	QLogic QXE257x	1.1.55.0	3.31	8.01.02	7.1.x	Y	L1	Dell fw kit: 03.22.08
VMWare ESXi 5.5	QLogic QXE257x	1.1.55.0	3.31	8.01.02	7.2.x	Y	L1	Dell fw kit: 03.22.08
VMWare ESXi 5.5	QLogic QXE257x	1.1.70.0	3.31	8.01.02	6.7.x	Y	L1	Dell fw kit: 03.22.08
VMWare ESXi 5.5	QLogic QXE257x	1.1.70.0	3.31	8.01.02	7.2.x	Y	L1	Dell fw kit: 03.22.08
VMWare ESXi 5.5	QLogic QXE257x	1.1.70.0	3.4	8.01.02	7.2.x	Y	L1	Dell fw kit: 09.00.03
VMWare ESXi 5.5	QLogic QXE257x	1.1.70.0	3.4	8.01.02	7.3.x	Y	L1	Dell fw kit: 09.00.03
VMWare ESXi 5.5	QLogic QXE266x	1.1.41.0	3.24	7.00.01	6.6.x	Y	L1	Dell fw kit: 03.10.07
VMWare ESXi 5.5	QLogic QXE266x	1.1.41.0	3.24	7.03.00	6.6.x	Y	L1	Dell fw kit: 03.11.09
VMWare ESXi 5.5	QLogic QXE266x	1.1.55.0	3.29	7.04.00	6.7.x	Y	L1	Dell fw kit: 3.11.18
VMWare ESXi 5.5	QLogic QXE266x	1.1.70.0	3.29	8.01.02	7.1.x	Y	L1	Dell fw kit: 03.11.25
VMWare ESXi 5.5	QLogic QXE266x	1.1.70.0	3.43	8.05.01	7.2.x	Y	L1	Dell fw kit: 09.00.06
VMWare ESXi 5.5	QLogic QXE266x	1.1.70.0	3.43	8.05.01	7.3.x	Y	L1	Dell fw kit: 09.00.06
VMWare ESXi 5.5	QLogic QXE266x	1.1.70.0	3.44	8.03.01	7.1.x	Y	L1	Dell fw kit: 08.00.15
VMWare ESXi 5.5	QLogic QXE266x	1.1.70.0	3.44	8.03.01	7.2.x	Y	L1	Dell fw kit: 08.00.15
VMWare ESXi 6.0	Cisco VIC-13xx	1.6.0.25	2.2.8a	2.2.8a	6.6.x	Y	L1	
VMWare ESXi 6.0	Cisco VIC-13xx	1.6.0.34	3.1(3a)	4.1(3a)	6.7.x	Y	L1	Cisco fw kit: 3.1(3a)
VMWare ESXi 6.0	Cisco VIC-13xx	1.6.0.34	3.1(3c)	4.1(3a)	7.1.x	Y	L1	Cisco fw kit: 3.1(3c)
VMWare ESXi 6.0	Cisco VIC-13xx	1.6.0.34	3.1(3d)	4.1(3a)	7.1.x	Y	L1	Cisco fw kit: 3.1(3d)
VMWare ESXi 6.0	Cisco VIC-13xx	1.5.0.45	3.0(2c)	3.0(2c)	6.6.x	Y	L1	
VMWare ESXi 6.0	Cisco VIC-13xx	1.6.0.28	3.1(2b)	3.1(2b)	6.6.x	Y	L1	
VMWare ESXi 6.0	Cisco VIC-13xx	1.6.0.28	3.1(1k)	3.1(1k)	6.6.x	Y	L1	
VMWare ESXi 6.0	Cisco VIC-13xx	1.6.0.28	3.1(1k)	4.1(1h)	6.7.x	Y	L1	Cisco fw kit: 3.1(1k)
VMWare ESXi 6.0	Cisco VIC-13xx	1.6.0.28	3.1(2c)	3.1(2c)	6.6.x	Y	L1	
VMWare ESXi 6.0	Cisco VIC-13xx	1.6.0.28	3.1(1h)	3.1(1h)	6.6.x	Y	L1	
VMWare ESXi 6.0	Cisco VIC-13xx	1.6.0.28	3.1(1h)	4.1(1f)	6.7.x	Y	L1	Cisco fw kit: 3.1(1h)
VMWare ESXi 6.0	Cisco VIC-13xx	1.6.0.24	2.2.6g	2.2.6g	6.6.x	Y	L1	
VMWare ESXi 6.0	Cisco VIC-13xx	1.6.0.33	3.1(2b)	4.1(2d)	6.7.x	Y	L1	Cisco fw kit: 3.1(2b)
VMWare ESXi 6.0	Cisco VIC-13xx	1.6.0.33	2.2.8d	4.1(2d)	6.7.x	Y	L1	Cisco fw kit: 2.2.8d

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Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
VMWare ESXi 6.0	Cisco VIC-13xx	1.6.0.33	3.1(2b)	4.1(2d)	6.7.x	Y	L1	Cisco fw kit: 3.1(2b)
VMWare ESXi 6.0	Emulex LPe1205	10.6.126.0	6.03X1	2.01A12	7.1.x	Y	L1	Dell fw kit: 01.06.01
VMWare ESXi 6.0	Emulex LPe1205	11.4.142.11	6.03X1	2.02a3	7.3.x	Y	L1	Dell fw kit: 02.01.01*
VMWare ESXi 6.0	Emulex LPe1205	11.2.156.20	6.03X1	2.02a3	7.2.x	Y	L1	Dell fw kit: 02.01.01*
VMWare ESXi 6.0	Emulex LPe1205	10.2.459.0	6.03X1	2.01A12	6.6.x	Y	L1	Dell fw kit: 1.05.01
VMWare ESXi 6.0	Emulex LPe1205	11.1.145.18	7.00x1	2.02A1	6.7.x	Y	L1	Dell fw kit: 02.00.04
VMWare ESXi 6.0	Emulex LPe1205	11.1.145.18	7.00x1	2.02A1	7.1.x	Y	L1	Dell fw kit: 02.00.04
VMWare ESXi 6.0	Emulex LPe1205	11.1.145.18	7.00x1	2.02A1	7.2.x	Y	L1	Dell fw kit: 02.00.04
VMWare ESXi 6.0	Emulex LPe1205	10.5.70.0	6.03X1	2.01A12	6.7.x	Y	L1	Dell fw kit: 01.06.01
VMWare ESXi 6.0	Emulex LPx1500x/LPx1600x	10.6.126.0	10.6.133.18	10.6.133.18	6.7.x	Y	L1	Dell fw kit: 01.06.01
VMWare ESXi 6.0	Emulex LPx1500x/LPx1600x	10.6.126.0	10.6.133.18	10.6.133.18	7.1.x	Y	L1	Dell fw kit: 01.06.01
VMWare ESXi 6.0	Emulex LPx1500x/LPx1600x	11.4.142.11	11.2.216.9	11.2.216.9	7.3.x	Y	L1	Dell fw kit: 02.01.01
VMWare ESXi 6.0	Emulex LPx1500x/LPx1600x	11.2.156.20	11.2.216.9	11.2.216.9	7.2.x	Y	L1	Dell fw kit: 02.01.01
VMWare ESXi 6.0	Emulex LPx1500x/LPx1600x	11.1.145.18	11.0.270.9	11.0.270.2002	7.1.x	Y	L1	Dell fw kit: 02.00.04
VMWare ESXi 6.0	Emulex LPx1500x/LPx1600x	11.1.145.18	11.0.270.9	11.0.270.2002	7.2.x	Y	L1	Dell fw kit: 02.00.04
VMWare ESXi 6.0	Emulex LPx1500x/LPx1600x	10.4.203.5	10.2.495.0	10.2.506.19	6.6.x	Y	L1	
VMWare ESXi 6.0	Emulex LPx3100x/LPx3200x	11.4.142.11	11.2.216.9	11.2.216.9	7.3.x	Y	L1	Dell fw kit: 02.01.01

Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
VMWare ESXi 6.0	Emulex LPx3100x/LPx3200x	11.2.156.20	11.2.216.9	11.2.216.9	7.2.x	Y	L1	Dell fw kit: 02.01.01
VMWare ESXi 6.0	QLogic QXE257x	1.1.41.0	3.24	7.03.00	6.6.x	Y	L1	Dell fw kit: 03.21.04
VMWare ESXi 6.0	QLogic QXE257x	2.1.20.0	3.24	7.04.00	6.7.x	Y	L1	Dell fw kit: 3.22.00
VMWare ESXi 6.0	QLogic QXE257x	2.1.43.0	3.31	8.01.02	6.7.x	Y	L1	Dell fw kit: 03.22.08
VMWare ESXi 6.0	QLogic QXE257x	2.1.43.0	3.31	8.01.02	7.2.x	Y	L1	Dell fw kit: 03.22.08
VMWare ESXi 6.0	QLogic QXE257x	2.1.24.0	3.29	8.01.02	7.1.x	Y	L1	Dell fw kit: 03.22.07
VMWare ESXi 6.0	QLogic QXE257x	2.1.24.0	3.31	8.01.02	7.1.x	Y	L1	Dell fw kit: 03.22.08
VMWare ESXi 6.0	QLogic QXE257x	2.1.24.0	3.31	8.01.02	7.2.x	Y	L1	Dell fw kit: 03.22.08
VMWare ESXi 6.0	QLogic QXE257x	2.1.50.0	3.4	8.02.00	7.2.x	Y	L1	Dell fw kit: 09.00.03
VMWare ESXi 6.0	QLogic QXE257x	2.1.57.0	3.4	8.02.00	7.3.x	Y	L1	Dell fw kit: 09.00.03
VMWare ESXi 6.0	QLogic QXE266x	1.1.39.0	3.24	7.00.01	6.6.x	Y	L1	Dell fw kit: 03.10.07
VMWare ESXi 6.0	QLogic QXE266x	2.1.20.0	3.29	7.04.00	6.7.x	Y	L1	Dell fw kit: 3.11.18
VMWare ESXi 6.0	QLogic QXE266x	2.1.43.0	3.44	8.03.01	7.1.x	Y	L1	Dell fw kit: 08.00.15
VMWare ESXi 6.0	QLogic QXE266x	2.1.43.0	3.44	8.03.01	7.2.x	Y	L1	Dell fw kit: 08.00.15
VMWare ESXi 6.0	QLogic QXE266x	2.1.24.0	3.29	8.01.02	7.1.x	Y	L1	Dell fw kit: 03.11.25
VMWare ESXi 6.0	QLogic QXE266x	2.1.50.0	3.43	8.05.01	7.2.x	Y	L1	Dell fw kit: 09.00.06
VMWare ESXi 6.0	QLogic QXE266x	2.1.57.0	3.43	8.05.01	7.3.x	Y	L1	Dell fw kit: 09.00.06
VMWare ESXi 6.0	QLogic QXE269x	2.1.50.0	3.43	8.05.00	7.2.x	Y	L1	Dell fw kit: 09.00.06
VMWare ESXi 6.0	QLogic QXE269x	2.1.57.0	3.43	8.05.00	7.3.x	Y	L1	Dell fw kit: 09.00.06
VMWare ESXi 6.0	QLogic QXE274x	2.1.50.0	3.43	8.05.00	7.2.x	Y	L1	Dell fw kit: 09.00.06
VMWare ESXi 6.0	QLogic QXE274x	2.1.57.0	3.43	8.05.00	7.3.x	Y	L1	Dell fw kit: 09.00.06
VMWare ESXi 6.5	Cisco VIC-13xx	1.6.0.34	3.1(3a)	4.1(3a)	6.7.x	Y	L1	Cisco fw kit: 3.1(3a)
VMWare ESXi 6.5	Cisco VIC-13xx	1.6.0.34	3.1(3c)	4.1(3a)	7.1.x	Y	L1	Cisco fw kit: 3.1(3c)
VMWare ESXi 6.5	Cisco VIC-13xx	1.6.0.34	3.1(3d)	4.1(3a)	7.1.x	Y	L1	Cisco fw kit: 3.1(3d)
VMWare ESXi 6.5	Cisco VIC-13xx	1.6.0.28	3.1(2b)	4.1(2d)	6.7.x	Y	L1	Cisco fw kit: 3.1(2b)
VMWare ESXi 6.5	Cisco VIC-13xx	1.6.0.28	3.1(2b)	4.1(2d)	6.7.x	Y	L1	Cisco fw kit: 3.1(2b)
VMWare ESXi 6.5	Emulex LPx1500x/LPx1600x	11.4.142.11	11.2.216.9	11.2.216.9	7.3.x	Y	L1	Dell fw kit: 02.01.01

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Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
VMWare ESXi 6.5	Emulex LPx1500x/LPx1600x	11.2.156.20	11.2.216.9	11.2.216.9	7.2.x	Y	L1	Dell fw kit: 02.01.01
VMWare ESXi 6.5	Emulex LPx1500x/LPx1600x	11.1.145.18	11.0.270.9	11.0.270.2002	7.1.x	Y	L1	Dell fw kit: 02.00.04
VMWare ESXi 6.5	Emulex LPx1500x/LPx1600x	11.1.145.18	11.0.270.9	11.0.270.2002	7.2.x	Y	L1	Dell fw kit: 02.00.04
VMWare ESXi 6.5	Emulex LPx1500x/LPx1600x	11.1.0.6	11.0.270.9	11.0.270.2002	6.7.x	Y	L1	Dell fw kit: 02.00.04
VMWare ESXi 6.5	Emulex LPx1500x/LPx1600x	11.1.0.6	11.0.270.9	11.0.270.2002	7.2.x	Y	L1	Dell fw kit: 02.00.04
VMWare ESXi 6.5	Emulex LPx3100x/LPx3200x	11.4.142.11	11.2.216.9	11.2.216.9	7.3.x	Y	L1	Dell fw kit: 02.01.01
VMWare ESXi 6.5	Emulex LPx3100x/LPx3200x	11.2.156.20	11.2.216.9	11.2.216.9	7.2.x	Y	L1	Dell fw kit: 02.01.01
VMWare ESXi 6.5	QLogic QXE266x	2.1.43.0	3.44	8.03.01	6.7.x	Y	L1	Dell fw kit: 08.00.15
VMWare ESXi 6.5	QLogic QXE266x	2.1.43.0	3.44	8.03.01	7.1.x	Y	L1	Dell fw kit: 08.00.15
VMWare ESXi 6.5	QLogic QXE266x	2.1.43.0	3.44	8.03.01	7.2.x	Y	L1	Dell fw kit: 08.00.15
VMWare ESXi 6.5	QLogic QXE266x	2.1.50.0	3.43	8.05.01	7.2.x	Y	L1	Dell fw kit: 09.00.06
VMWare ESXi 6.5	QLogic QXE266x	2.1.57.0	3.43	8.05.01	7.3.x	Y	L1	Dell fw kit: 09.00.06
VMWare ESXi 6.5	QLogic QXE269x	9.2.3.20	3.43	8.05.00	7.2.x	Y	L1	Dell fw kit: 09.00.06
VMWare ESXi 6.5	QLogic QXE269x	2.1.57.0	3.43	8.05.00	7.3.x	Y	L1	Dell fw kit: 09.00.06
VMWare ESXi 6.5	QLogic QXE274x	9.2.3.20	3.43	8.05.00	7.2.x	Y	L1	Dell fw kit: 09.00.06
VMWare ESXi 6.5	QLogic QXE274x	2.1.57.0	3.43	8.05.00	7.3.x	Y	L1	Dell fw kit: 09.00.06
VMWare ESXi 6.7	Emulex LPx3100x/LPx3200x	11.4.142.11	11.2.216.9	11.2.216.9	7.2.x	Y	L1	Dell fw kit: 02.01.01

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Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
VMWare ESXi 6.7	Emulex LPx3100x/LPx3200x	11.4.142.11	11.2.216.9	11.2.216.9	7.3.x	Y	L1	Dell fw kit: 02.01.01
VMWare ESXi 6.7	QLogic QXE274x	2.1.57.0	3.43	8.05.00	7.2.x	Y	L1	Dell fw kit: 09.00.06
VMWare ESXi 6.7	QLogic QXE274x	2.1.57.0	3.43	8.05.00	7.3.x	Y	L1	Dell fw kit: 09.00.06

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4.2 iSCSI (SC, SCv and PS)

4.2.1 SC and SCv

4.2.1.1 iSCSI converged network and host bus Adapters

The column titled "SCv" indicates whether the SCv series arrays are supported for that OS-HBA combination. A "Y" means that both SC and SCv series are supported. A blank means that only the SC series is supported

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Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
Citrix XenServer 7.2	Broadcom 57810	1.714.1	7.14.10	14.02.12	7.3.x		L3	
Microsoft 2008 Windows Server R2 SP1	Broadcom 57810	7.12.32.0	7.12.1	08.07.25	7.2.x	Y	L1	
Microsoft 2008 Windows Server R2 SP1	Broadcom 57810	7.14.1.1	7.15.0	14.02.12	7.3.x	Y	L1	Dell fw kit: 14.02.01
Microsoft 2008 Windows Server R2 SP1	Emulex OCx1410x	10.2.421.0	2.0.281.76 8	10.2.506.1 9	6.6.x	Y	L1	
Microsoft 2008 Windows Server R2 SP1	Emulex OCx1410x	10.6.116.0	10.6.133.1 8	1.06.01	6.7.x	Y	L1	
Microsoft 2008 Windows Server R2 SP1	Emulex OCx1410x	10.6.126.0	10.6.133.1 8	1.06.01	7.1.x	Y	L1	Dell fw kit: 01.06.01
Microsoft 2008 Windows Server R2 SP1	Emulex OCx1410x	11.0.271.0	11.0.270.2 007	11.0.270.2 007	7.2.x	Y	L3	Dell fw kit: 02.00.04
Microsoft 2008 Windows Server R2 SP1	Emulex OCx1410x	11.2.1099.0	11.2.1197. 13	11.2.1197. 13	7.2.x	Y	L3	Dell fw kit: 02.01.01
Microsoft 2008 Windows Server R2 SP1	Emulex OCx1410x	11.2.1099.0	11.2.1197. 13	11.2.1197. 13	7.3.x	Y	L3	Dell fw kit: 02.01.01
Microsoft 2008 Windows Server R2 SP1	QLogic QLE406x	2.1.4.26	11.2.1197. 13	3.0.1.75	6.6.x	Y	L1	
Microsoft 2008 Windows Server R2 SP1	QLogic QLE406x	2.1.4.26	11.2.1197. 13	3.0.1.75	6.7.x	Y	L1	

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Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
Microsoft 2008 Windows Server R2 SP1	QLogic QLE406x	2.1.4.26	11.2.1197.13	3.0.1.75	7.1.x	Y	L1	
Microsoft 2008 Windows Server R2 SP1	QLogic QLE406x	2.1.4.26	11.2.1197.13	3.0.1.75	7.2.x	Y	L1	
Microsoft 2008 Windows Server R2 SP1	QLogic QXE826x	2.1.6.10	2.0.1.35	2.10.29	6.7.x	Y	L1	
Microsoft 2008 Windows Server R2 SP1	QLogic QXE826x	2.1.6.10	2.04.12	4.18.4	6.6.x	Y	L1	
Microsoft 2012 Windows Server	Broadcom 57810	7.12.32.0	7.12.1	08.07.25	7.2.x	Y	L1	
Microsoft 2012 Windows Server	Broadcom 57810	7.0.13.51	7.15.0	14.02.01	7.3.x	Y	L1	
Microsoft 2012 Windows Server	Emulex OCe1010x	10.2.421.0	2.0.42.0	4.2.324.11	6.6.x	Y	L1	
Microsoft 2012 Windows Server	Emulex OCx1410x	10.6.116.0	10.6.133.18	1.06.01	6.7.x	Y	L1	
Microsoft 2012 Windows Server	Emulex OCx1410x	10.6.116.0	10.6.133.18	1.06.01	7.1.x	Y	L1	Dell fw kit: 01.06.01
Microsoft 2012 Windows Server	QLogic QLE406x	2.1.4.27	10.6.133.18	3.0.1.75	6.6.x	Y	L1	
Microsoft 2012 Windows Server	QLogic QXE826x	2.1.6.10	2.0.1.35	2.10.29	6.7.x	Y	L1	
Microsoft 2012 Windows Server	QLogic QXE826x	2.1.6.10	2.0.1.35	4.16.17	6.6.x	Y	L1	
Microsoft 2012 Windows Server R2	Broadcom 57810	7.12.32.0	7.12.1	08.07.25	7.2.x	Y	L1	
Microsoft 2012 Windows Server R2	Broadcom 57810	7.4.4.0	7.15.0	14.02.12	7.3.x	Y	L1	
Microsoft 2012 Windows Server R2	Emulex OCe1010x	10.2.421.0	2.0.42.0	4.2.324.11	6.6.x	Y	L1	
Microsoft 2012 Windows Server R2	Emulex OCx1410x	10.6.114.0	10.6.133.18	10.6.133.18	6.7.x	Y	L1	
Microsoft 2012 Windows Server R2	Emulex OCx1410x	10.6.116.0	10.6.133.18	1.06.01	6.7.x	Y	L1	

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Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
Microsoft 2012 Windows Server R2	Emulex OCx1410x	10.6.116.0	10.6.133.18	1.06.01	7.1.x	Y	L1	Dell fw kit: 01.06.01
Microsoft 2012 Windows Server R2	Emulex OCx1410x	11.0.271.0	11.0.243.16	11.0.243.16	7.1.x	Y	L1	
Microsoft 2012 Windows Server R2	Emulex OCx1410x	11.0.271.0	11.0.270.15	11.0.270.15	7.1.x	Y	L1	Dell fw kit: 02.00.01
Microsoft 2012 Windows Server R2	Emulex OCx1410x	11.0.271.0	11.0.270.2007	11.0.270.2007	7.1.x	Y	L1	Dell fw kit: 02.00.04
Microsoft 2012 Windows Server R2	Emulex OCx1410x	11.0.271.0	11.0.270.2007	11.0.270.2007	7.2.x	Y	L1	Dell fw kit: 02.00.04
Microsoft 2012 Windows Server R2	Emulex OCx1410x	11.2.1153.23	11.2.197.13	11.2.197.13	7.2.x	Y	L1	Dell fw kit: 02.01.01
Microsoft 2012 Windows Server R2	Emulex OCx1410x	11.2.1153.23	11.2.197.13	11.2.197.13	7.3.x	Y	L1	Dell fw kit: 02.01.01
Microsoft 2012 Windows Server R2	QLogic QLE406x	2.1.4.27	11.2.197.13	3.0.1.75	6.7.x	Y	L3	
Microsoft 2012 Windows Server R2	QLogic QLE406x	2.1.4.27	11.2.197.13	3.0.1.75	7.1.x	Y	L3	
Microsoft 2012 Windows Server R2	QLogic QLE406x	2.1.4.27	11.2.197.13	3.0.1.75	7.2.x	Y	L3	
Microsoft 2012 Windows Server R2	QLogic QXE826x	2.1.6.10	2.0.1.35	2.10.29	6.7.x	Y	L1	
Microsoft 2012 Windows Server R2	QLogic QXE826x	2.1.6.10	2.04.12	4.18.4	6.6.x	Y	L1	
Microsoft 2012 Windows Server R2	QLogic QXE826x	2.1.6.10	2.19	4.16.101	6.6.x	Y	L1	Dell fw kit: 02.10.07
Microsoft 2012 Windows Server R2	QLogic QXE826x	2.1.6.10	2.21	4.18.04	6.7.x	Y	L1	Dell fw kit: 2.10.29
Microsoft 2012 Windows Server R2	QLogic QXE826x	2.1.6.10	2.22	4.18.04	7.1.x	Y	L1	Dell fw kit: 02.10.38
Microsoft 2012 Windows Server R2	QLogic QXE826x	2.1.6.10	2.22	4.18.04	7.2.x	Y	L1	Dell fw kit: 02.10.38
Microsoft 2012 Windows Server R2	QLogic QXE826x	2.1.6.10	2.22	4.20.21	7.2.x	Y	L1	Dell fw kit: 09.00.03

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Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
Microsoft 2012 Windows Server R2	QLogic QXE826x	2.1.6.10	2.22	4.20.21	7.3.x	Y	L1	Dell fw kit: 09.00.03
Microsoft 2012 Windows Server R2	QLogic QXE826x	2.1.5.38	2.19	4.16.17	6.6.x	Y	L1	Dell fw kit: 02.10.07
Microsoft 2016 Windows Server	Emulex OCx1410x	11.0.271.0	11.0.270.2 007	11.0.270.2 007	7.2.x	Y	L3	Dell fw kit: 02.00.04
Microsoft 2016 Windows Server	Emulex OCx1410x	11.2.1153.23	11.2.1197. 13	11.2.1197. 13	7.2.x	Y	L3	Dell fw kit: 02.01.01
Microsoft 2016 Windows Server	Emulex OCx1410x	11.2.1153.23	11.2.1197. 13	11.2.1197. 13	7.3.x	Y	L3	Dell fw kit: 02.01.01
Novell SLES 11 SP3	Broadcom 57810	2.7.6.2	7.12.1	08.07.25	7.2.x	Y	L1	
Novell SLES 11 SP3	Emulex OCx1410x	10.4.114.0	10.2.506.1 9	1.05.01	6.7.x	Y	L1	
Novell SLES 11 SP3	Emulex OCx1410x	10.6.0.2	10.6.133.1 8	1.06.01	7.1.x	Y	L1	Dell fw kit: 01.06.01
Novell SLES 11 SP3	QLogic QLE406x	5.03.00.06.11. 3-k0	10.6.133.1 8	3.0.1.75	6.6.x	Y	L3	
Novell SLES 11 SP3	QLogic QLE406x	5.03.00.06.11. 3-k0	10.6.133.1 8	3.0.1.75	6.7.x	Y	L3	
Novell SLES 11 SP3	QLogic QXE826x	5.03.00.00.11. 4-ko	2.0.1.35	2.10.29	6.7.x	Y	L1	
Novell SLES 11 SP4	QLogic QLE406x	5.03.00.00.11. 4-k0	2.0.1.35	3.0.1.75	6.7.x	Y	L3	
Novell SLES 11 SP4	QLogic QLE406x	5.03.00.00.11. 4-k0	2.0.1.35	3.0.1.75	7.1.x	Y	L3	
Novell SLES 11 SP4	QLogic QLE406x	5.03.00.00.11. 4-k0	2.0.1.35	3.0.1.75	7.2.x	Y	L3	
Novell SLES 12	Broadcom 57810	2.7.10.1	7.14.10	14.02.12	7.3.x	Y	L1	
Novell SLES 12	Emulex OCx1410x	10.6.0.2	10.6.133.1 8	1.06.01	7.1.x	Y	L1	Dell fw kit: 01.06.01
Novell SLES 12	Emulex OCx1410x	10.6.0.2	10.6.133.1 8	1.06.01	7.2.x	Y	L1	Dell fw kit: 01.06.01
Novell SLES 12	QLogic QLE406x	5.04.00.00.12. 0-k3	10.6.133.1 8	3.0.1.75	6.6.x	Y	L3	

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Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
Novell SLES 12	QLogic QLE406x	5.04.00.00.12.0-k3	10.6.133.18	3.0.1.75	6.7.x	Y	L3	
Novell SLES 12 SP1	Emulex OCx1410x	11.0.230.0	11.0.243.16	11.0.243.16	7.1.x	Y	L3	
Novell SLES 12 SP1	Emulex OCx1410x	10.6.0.0	11.0.243.16	11.0.243.16	7.2.x	Y	L3	
Novell SLES 12 SP1	Emulex OCx1410x	11.0.0.0	11.0.270.2007	11.0.270.2007	7.2.x	Y	L3	
Novell SLES 12 SP1	Emulex OCx1410x	11.2.1.0	11.2.1197.13	11.2.1197.13	7.3.x	Y	L3	
Novell SLES 12 SP1	QLogic QLE406x	5.04.00.00.12.1-k0	11.2.1197.13	3.0.1.75	6.7.x	Y	L3	
Red Hat RHEL 5.11 x64	QLogic QLE406x	5.02.04.06.05.10-d0	11.2.1197.13	3.0.1.75	6.6.x		L3	
Red Hat RHEL 6.5 x64	QLogic QXE826x	5.04.01.09	2.04.12	4.18.4	6.6.x	Y	L1	
Red Hat RHEL 6.6 x64	Emulex OCx1410x	10.2.488.0	2.0.281.768	10.2.506.19	6.6.x	Y	L1	
Red Hat RHEL 6.6 x64	QLogic QLE406x	5.02.00.00.06.03-k4	2.0.281.768	3.0.1.75	6.6.x	Y	L3	
Red Hat RHEL 6.6 x64	QLogic QLE406x	5.02.00.00.06.03-k4	2.0.281.768	3.0.1.75	6.7.x	Y	L3	
Red Hat RHEL 6.6 x64	QLogic QXE826x	OS Built-In	2.04.12	4.18.4	6.6.x	Y	L1	
Red Hat RHEL 6.7 x64	Broadcom 57810	2.7.10.1	7.12.1	08.07.25	7.2.x	Y	L1	
Red Hat RHEL 6.7 x64	Emulex OCx1410x	10.4.272.0r	10.2.506.19	1.05.01	6.7.x	Y	L1	
Red Hat RHEL 6.7 x64	Emulex OCx1410x	10.4.272.0r	10.6.133.18	1.06.01	7.1.x	Y	L1	Dell fw kit: 01.06.01
Red Hat RHEL 6.7 x64	QLogic QLE406x	5.03.00.00.06.07-k0	10.6.133.18	3.0.1.75	6.7.x	Y	L3	
Red Hat RHEL 6.7 x64	QLogic QLE406x	5.03.00.00.06.07-k0	10.6.133.18	3.0.1.75	7.1.x	Y	L3	
Red Hat RHEL 6.7 x64	QLogic QLE406x	5.03.00.00.06.07-k0	10.6.133.18	3.0.1.75	7.2.x	Y	L3	
Red Hat RHEL 6.7 x64	QLogic QXE826x	5.4.1.9.0.0-ko	2.0.1.35	2.10.29	6.7.x	Y	L1	

Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
Red Hat RHEL 6.9 x64	Broadcom 57811	1.712.30.0	7.15.0	14.02.12	7.3.x	Y	L1	
Red Hat RHEL 6.9 x64	Broadcom 57811	1.712.30.6	7.14.10	14.02.12	7.3.x	Y	L1	
Red Hat RHEL 7.1 x64	QLogic QLE406x	5.02.04.06.05.10-d0	7.14.10	3.0.1.75	6.7.x	Y	L3	
Red Hat RHEL 7.2 x64	Broadcom 57810	2.7.10.1	7.12.1	08.07.25	7.2.x	Y	L1	
Red Hat RHEL 7.2 x64	Emulex OCx1410x	10.4.272.0r	10.6.133.18	1.06.01	7.1.x	Y	L1	Dell fw kit: 01.06.01
Red Hat RHEL 7.2 x64	Emulex OCx1410x	10.6.0.0r	11.0.270.2007	11.0.270.2007	7.2.x	Y	L3	Dell fw kit: 02.00.04
Red Hat RHEL 7.2 x64	QLogic QLE406x	5.04.00.00.07.02-k0	11.0.270.2007	3.0.1.75	6.7.x	Y	L3	
Red Hat RHEL 7.3 x64	Emulex OCx1410x	10.6.0.0r	11.0.270.2007	11.0.270.2007	6.7.x	Y	L3	Dell fw kit: 02.00.04
Red Hat RHEL 7.3 x64	Emulex OCx1410x	10.6.0.0r	11.0.270.2007	11.0.270.2007	7.1.x	Y	L3	Dell fw kit: 02.00.04
Red Hat RHEL 7.3 x64	Emulex OCx1410x	10.6.0.0r	11.0.270.2007	11.0.270.2007	7.2.x	Y	L3	Dell fw kit: 02.00.04
Red Hat RHEL 7.4 x64	Emulex OCx1410x	11.2.1.0	11.0.270.2007	11.0.270.2007	7.3.x	Y	L3	Dell fw kit: 02.00.04
Red Hat RHEL 7.4 x64	Emulex OCx1410x	11.4.0.0r	11.0.270.2007	11.0.270.2007	7.2.x	Y	L3	Dell fw kit: 02.00.04
VMWare ESXi 5.1	QLogic QXE826x	634.5.26.0	2.19	4.16.17	6.6.x		L1	Dell fw kit: 02.10.07
VMWare ESXi 5.1	QLogic QXE826x	644.5.35.0	2.19	4.16.101	6.6.x		L1	Dell fw kit: 02.10.22
VMWare ESXi 5.5	Broadcom 57810	2.711.10v55.2	7.8.51	7.8.55	6.6.x	Y	L1	Dell fw kit: 7.10.18
VMWare ESXi 5.5	Broadcom 57810	2.712.30.v55.1	7.12.4	7.12.17	6.7.x	Y	L1	
VMWare ESXi 5.5	Broadcom 57810	1.712.70.v55.5	7.12.1	08.07.25	7.2.x	Y	L1	
VMWare ESXi 5.5	Broadcom 57810	2.712.70.v55.3	7.12.1	08.07.25	6.7.x	Y	L1	
VMWare ESXi 5.5	Broadcom 57810	2.712.70.v55.3	7.12.1	08.07.25	7.1.x	Y	L1	
VMWare ESXi 5.5	Broadcom 57810	2.712.70.v55.3	7.12.1	08.07.25	7.2.x	Y	L1	
VMWare ESXi 5.5	Broadcom 57810	2.712.70.v55.3	7.12.5	7.12.19	7.1.x	Y	L1	
VMWare ESXi 5.5	Broadcom 57810	2.713.10.v55.3	7.15.0	10.01.00	7.2.x	Y	L1	Dell fw kit: 10.01.00
VMWare ESXi 5.5	Broadcom 57810	2.713.10.v55.3	7.15.0	10.01.00	7.3.x	Y	L1	Dell fw kit: 10.01.00

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Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
VMWare ESXi 5.5	Broadcom 57810	2.712	7.14.10	14.02.12	7.3.x	Y	L1	
VMWare ESXi 5.5	Emulex OCx1410x	10.2.250.1	10.2.506.19	10.2.506.19	6.6.x	Y	L1	
VMWare ESXi 5.5	Emulex OCx1410x	10.6.163.0	10.2.506.19	1.05.01	6.7.x	Y	L1	
VMWare ESXi 5.5	Emulex OCx1410x	10.6.150.3	10.6.133.18	10.6.133.18	6.7.x	Y	L1	Dell fw kit: 01.06.01
VMWare ESXi 5.5	Emulex OCx1410x	11.1.145.8	11.0.270.2007	11.0.270.2007	6.7.x	Y	L1	Dell fw kit: 02.00.04
VMWare ESXi 5.5	Emulex OCx1410x	11.1.145.8	11.0.270.2007	11.0.270.2007	7.1.x	Y	L1	Dell fw kit: 02.00.04
VMWare ESXi 5.5	Emulex OCx1410x	11.1.145.8	11.0.270.2007	11.0.270.2007	7.2.x	Y	L1	Dell fw kit: 02.00.04
VMWare ESXi 5.5	Emulex OCx1410x	11.1.145.8	11.2.1197.13	11.2.1197.13	7.2.x	Y	L1	Dell fw kit: 02.01.01
VMWare ESXi 5.5	Emulex OCx1410x	11.1.145.8	11.2.1197.13	11.2.1197.13	7.3.x	Y	L1	Dell fw kit: 02.01.01
VMWare ESXi 5.5	Emulex OCx1410x	10.2.309.5	10.6.133.18	1.06.01	7.1.x	Y	L1	Dell fw kit: 01.06.01
VMWare ESXi 5.5	Emulex OCx1410x	11.0.231.0	11.0.270.15	11.0.231.0	7.1.x	Y	L1	Dell fw kit: 02.00.03
VMWare ESXi 5.5	QLogic QXE826x	634.55.26.0	2.19	4.16.17	6.6.x	Y	L1	Dell fw kit: 02.10.07
VMWare ESXi 5.5	QLogic QXE826x	644.55.35.0	2.19	4.16.101	6.6.x	Y	L1	Dell fw kit: 02.10.22
VMWare ESXi 5.5	QLogic QXE826x	qla4xx 644.5.35.0	2.04.12	4.18.4	6.6.x	Y	L1	
VMWare ESXi 5.5	QLogic QXE826x	644.55.34.0-1	2.0.1.35	2.10.29	6.7.x	Y	L1	
VMWare ESXi 5.5	QLogic QXE826x	644.55.34.0	2.21	4.18.04	6.7.x	Y	L1	Dell fw kit: 2.10.29
VMWare ESXi 5.5	QLogic QXE826x	644.55.36.0	2.22	4.18.04	7.1.x	Y	L1	Dell fw kit: 02.10.37
VMWare ESXi 5.5	QLogic QXE826x	644.55.37.0	2.22	4.18.04	7.1.x	Y	L1	Dell fw kit: 02.10.38
VMWare ESXi 5.5	QLogic QXE826x	644.55.37.0	2.22	4.18.04	7.2.x	Y	L1	Dell fw kit: 02.10.38
VMWare ESXi 5.5	QLogic QXE826x	644.55.37.0	2.22	4.20.21	7.2.x	Y	L1	Dell fw kit: 09.00.03
VMWare ESXi 5.5	QLogic QXE826x	644.55.37.0	2.22	4.20.21	7.3.x	Y	L1	Dell fw kit: 09.00.03

Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
VMWare ESXi 6.0	Broadcom 57810	1.712.70.v55.5	7.12.1	08.07.25	7.2.x	Y	L1	
VMWare ESXi 6.0	Broadcom 57810	2.712	7.13.54	08.07.25	7.3.x	Y	L1	Dell fw kit: 14.02.12
VMWare ESXi 6.0	Emulex OCx1410x	11.4.142.11	11.2.1197.13	11.2.1197.13	7.3.x	Y	L1	Dell fw kit: 02.01.01
VMWare ESXi 6.0	Emulex OCx1410x	11.1.145.8	11.0.270.2007	11.0.270.2007	7.1.x	Y	L1	Dell fw kit: 02.00.04
VMWare ESXi 6.0	Emulex OCx1410x	11.1.145.8	11.0.270.2007	11.0.270.2007	7.2.x	Y	L1	Dell fw kit: 02.00.04
VMWare ESXi 6.0	Emulex OCx1410x	11.0.231.0	11.0.270.2002	11.0.270.2002	7.1.x	Y	L1	Dell fw kit: 02.00.03
VMWare ESXi 6.0	Emulex OCx1410x	10.2.309.6	10.6.133.18	1.06.01	7.1.x	Y	L1	Dell fw kit: 01.06.01
VMWare ESXi 6.0	Emulex OCx1410x	11.2.1147.5	11.2.1197.13	11.2.1197.13	7.2.x	Y	L1	Dell fw kit: 02.01.01
VMWare ESXi 6.0	QLogic QXE826x	644.55.34.0	2.19	4.16.101	6.6.x	Y	L1	Dell fw kit: 02.10.22
VMWare ESXi 6.0	QLogic QXE826x	644.55.34.0	2.21	4.18.04	6.7.x	Y	L1	Dell fw kit: 2.10.29
VMWare ESXi 6.0	QLogic QXE826x	644.55.36.0	2.22	4.18.04	7.1.x	Y	L1	Dell fw kit: 02.10.38
VMWare ESXi 6.0	QLogic QXE826x	644.55.36.0	2.22	4.18.04	7.2.x	Y	L1	Dell fw kit: 02.10.38
VMWare ESXi 6.0	QLogic QXE826x	644.55.37.0	2.22	4.20.21	7.2.x	Y	L1	Dell fw kit: 09.00.03
VMWare ESXi 6.0	QLogic QXE826x	644.6.06.0	2.22	4.20.21	7.3.x	Y	L1	Dell fw kit: 09.00.03
VMWare ESXi 6.5	Broadcom 57810	2.713.30.v60.5	2.22	10.01.00	7.2.x	Y	L3	Dell fw kit: 10.01.00
VMWare ESXi 6.5	Broadcom 57810	2.713.10.v60.3		N/A	7.2.x	Y	L3	Dell fw kit: 08.07.25
VMWare ESXi 6.5	Broadcom 57810	2.713	7.14.10	14.02.12	7.3.x	Y	L1	
VMWare ESXi 6.5	QLogic QXE826x	644.6.06.0	7.14.10	4.18.04	7.2.x	Y	L3	Dell fw kit: 02.10.38
VMWare ESXi 6.5	QLogic QXE826x	644.6.06.0	7.14.10	4.20.21	7.2.x	Y	L3	Dell fw kit: 09.00.03
VMWare ESXi 6.5	QLogic QXE826x	644.6.06.0	7.14.10	4.20.21	7.3.x	Y	L3	Dell fw kit: 09.00.03

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4.2.1.2 Software iSCSI initiators

Software iSCSI initiators are typically provided by the host OS vendor and can be used with any industry-standards-based network interface controller (NIC). The following table provides guidance on which software iSCSI initiators have been tested and the support level for advanced features, such as boot from SAN.

If boot from SAN functionality is desired, it is advised that the design include one of the Adapters listed in section 4 to ensure the indicated support level.

Operating System	SC Version	SCv	BfS	Notes
Citrix XenServer 6.2 SP1	6.6.x		L3	
Citrix XenServer 6.5	6.6.x		L3	
	6.7.x		L3	
	7.1.x		L3	
Citrix XenServer 7.0	7.1.x		L3	
	7.2.x		L3	
Citrix XenServer 7.1	7.2.x		L3	
Citrix XenServer 7.2	7.2.x		L3	
	7.3.x		L1	
HP HP-UX 11iv3	6.6.x		L3	
	6.7.x		L3	
	7.1.x		L3	
	7.2.x		L3	
	7.3.x		L3	
IBM AIX 6.1	6.6.x		L3	
	6.7.x		L3	
	7.1.x		L3	
	7.2.x		L3	
	7.3.x		L3	
IBM AIX 7.1	6.7.x		L3	
	7.1.x		L3	
	7.2.x		L3	

Operating System	SC Version	SCv	BfS	Notes
IBM AIX 7.1	7.3.x		L3	
IBM AIX 7.2	6.7.x		L3	
	7.1.x		L3	
	7.2.x		L3	
	7.3.x		L3	
Microsoft 2008 Windows Server R2 SP1	6.6.x	Y	L1	
	6.7.x	Y	L1	
	7.1.x	Y	L1	
	7.2.x	Y	L1	
	7.3.x	Y	L1	
Microsoft 2012 Windows Server	6.6.x	Y	L1	
	6.7.x	Y	L1	
	7.1.x	Y	L1	
	7.2.x	Y	L1	
	7.3.x	Y	L1	
Microsoft 2012 Windows Server R2	6.6.x	Y	L1	
	6.7.x	Y	L1	
	7.1.x	Y	L1	
	7.2.x	Y	L1	
	7.3.x	Y	L1	
Microsoft 2016 Windows Server	6.6.x	Y	L1	
	6.7.x	Y	L1	
	7.1.x	Y	L3	
	7.2.x	Y	L1	
	7.3.x	Y	L1	
Novell SLES 11 SP3	6.6.x	Y	L3	
	6.7.x	Y	L1	

Operating System	SC Version	SCv	BfS	Notes
Novell SLES 11 SP3	7.1.x	Y	L1	
	7.2.x	Y	L1	
Novell SLES 11 SP4	6.7.x	Y	L3	
	7.1.x	Y	L3	
	7.2.x	Y	L3	
	7.3.x	Y	L3	
Novell SLES 12	6.6.x	Y	L3	
	6.7.x	Y	L3	
	7.1.x	Y	L1	
	7.2.x	Y	L1	
	7.3.x	Y	L1	
Novell SLES 12 SP1	6.7.x	Y	L3	
	7.1.x	Y	L3	
	7.2.x	Y	L3	
	7.3.x	Y	L3	
Oracle Linux Server 6.5 UEK	6.6.x		L3	
	6.7.x		L3	
Oracle Linux Server 7.0 UEK	6.6.x		L3	
	6.7.x		L3	
Oracle Linux Server 7.2 UEK	7.1.x		L3	
Oracle Linux Server 7.3 UEK	6.7.x		L3	
	7.1.x		L3	
	7.2.x		L3	
Oracle Linux Server 7.4 UEK	7.3.x		L3	
Oracle Solaris 10 SPARC	6.6.x		L3	
	6.7.x		L3	
	7.1.x		L3	
Oracle Solaris 10 x86_64	6.6.x		L3	
	6.7.x		L3	
	7.1.x		L3	

Operating System	SC Version	SCv	BfS	Notes
Oracle Solaris 11 SPARC	6.6.x		L3	
	6.7.x		L3	
	7.1.x		L3	
Oracle Solaris 11 x86_64	7.1.x		L3	
	7.2.x		L3	
	7.3.x		L3	
Red Hat RHEL 5.11 x64	6.6.x		L3	
Red Hat RHEL 6.5 x64	6.6.x	Y	L1	
Red Hat RHEL 6.6 x64	6.6.x	Y	L1	
	6.7.x	Y	L3	
Red Hat RHEL 6.7 x64	6.7.x	Y	L1	
	7.1.x	Y	L1	
	7.2.x	Y	L1	
Red Hat RHEL 6.8 x64	6.6.x	Y	L1	
	6.7.x	Y	L1	
	7.1.x	Y	L3	
	7.2.x	Y	L3	
Red Hat RHEL 6.9 x64	6.7.x	Y	L1	
	7.2.x	Y	L3	
	7.3.x	Y	L1	
Red Hat RHEL 7.0 x64	6.6.x	Y	L1	
	6.7.x	Y	L3	
Red Hat RHEL 7.1 x64	6.7.x	Y	L3	
Red Hat RHEL 7.2 x64	6.6.x	Y	L1	
	6.7.x	Y	L1	
	7.1.x	Y	L1	
	7.2.x	Y	L1	
Red Hat RHEL 7.3 x64	6.7.x	Y	L1	
	7.1.x	Y	L3	
	7.2.x	Y	L3	

Operating System	SC Version	SCv	BfS	Notes
Red Hat RHEL 7.4 x64	7.2.x	Y	L3	
	7.3.x	Y	L3	
VMWare ESXi 5.1	6.6.x		L3	
VMWare ESXi 5.5	6.6.x	Y	L1	
	6.7.x	Y	L1	
	7.1.x	Y	L1	
	7.2.x	Y	L1	
	7.3.x	Y	L1	
VMWare ESXi 6.0	6.6.x	Y	L1	
	6.7.x	Y	L1	
	7.1.x	Y	L1	
	7.2.x	Y	L1	
	7.3.x	Y	L1	
VMWare ESXi 6.5	6.7.x	Y	L1	
	7.1.x	Y	L3	
	7.2.x	Y	L3	
	7.3.x	Y	L1	
VMWare ESXi 6.7	7.2.x	Y	L3	
	7.3.x	Y	L3	

4.2.2 PS Series

4.2.2.1 Converged network and host bus Adapters

Configurations listed in this section are supported at Level 1 (as described previously) for the listed switch firmware/array firmware combinations. Switch validation reflects only those switches that connect directly to the array ports. There is no validation for other upstream switches. Feature and other support levels are indicated where they differ from the default Level 1 support.

Note: Unless otherwise noted, the OS-provided native multipath IO functionality is used for all validations listed.

Vendor	OS Version	CNA Vendor	Model	Driver	Boot Code	Firmware	Array OS	BfS	DCB	Notes
Microsoft	Windows Server 2008 R2	Broadcom	BRCM570x	5.2.14.0	N/A	N/A	4.0.x	L1	N/A	
Microsoft	Windows Server 2008 R2	Broadcom		6.2.7.0	N/A	N/A	6.0.x	L1	N/A	
Microsoft	Windows Server 2008 R2	Broadcom		7.10.0.0	7.10.0	7.10.18	8.1.x	L1	N/A	
Microsoft	Windows Server 2008 R2	QLogic	BCM577xx	5.2.11.0	N/A	N/A	4.0.x	L1	N/A	
Microsoft	Windows Server 2008 R2	QLogic		7.2.5.0	N/A	N/A	6.0.x	L1	N/A	
Microsoft	Windows Server 2008 R2	QLogic	BCM578xx	7.2.12.0	N/A	N/A	6.0.x	L1	L3	
Microsoft	Windows Server 2008 R2	QLogic					7.0.x	L1	L1	
Microsoft	Windows Server 2008 R2	QLogic					7.1.x	L1	L1	

Vendor	OS Version	CNA Vendor	Model	Driver	Boot Code	Firmware	Array OS	BfS	DCB	Notes
Microsoft	Windows Server 2008 R2	QLogic	BCM578xx	7.2.12.0	N/A	N/A	8.x	L1	L1	
Microsoft	Windows Server 2008 R2	QLogic		7.10.0.0	7.10.0	7.10.18	8.x	L1	L1	
Microsoft	Windows Server 2008 R2	QLogic	QLx405x	2.1.4.26	N/A	3.0.1.53	3.2.8	L1	N/A	
Microsoft	Windows Server 2012 R2	Broadcom	BCM570x	7.12.0.0	7.12.1	7.12.19	9.0.x	L1	N/A	
Microsoft	Windows Server 2012 R2	Broadcom	BCM570x	7.12.0.0	7.12.1	7.12.19	10.0.x	L1	N/A	
Microsoft	Windows Server 2012 R2	Broadcom	BCM577xx	7.12.0.0	7.12.1	7.12.19	9.0.x	L1	N/A	
Microsoft	Windows Server 2012 R2	Emulex	OCx1410x	10.6.116.0	10.6.133.10	10.6.144.21	9.0.x	L1	L1	
Microsoft	Windows Server 2012 R2	QLogic	BCM578xx	7.8.76.0	7.8.51	7.8.53	7.0.x	L1	L1	HP 534
Microsoft	Windows Server 2012 R2	QLogic					7.1.x	L1	L1	
Microsoft	Windows Server 2012 R2	QLogic					8.x	L1	L1	
Microsoft	Windows Server 2012 R2	QLogic		7.10.0.0	7.10.0	7.10.18	8.1.x	L1	L1	
Microsoft	Windows Server 2012 R2	QLogic	QLx82xx	2.1.5.38	2.0.1.35	2.10.37	9.0	L1	L1	
Novell	SUSE Linux Ent. SRV 11	Broadcom	BRCM570x	2.0.4	N/A	N/A	5.2.x	L3	N/A	

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Vendor	OS Version	CNA Vendor	Model	Driver	Boot Code	Firmware	Array OS	BfS	DCB	Notes
Novell	SUSE Linux Ent. SRV 11	Broadcom		2.1.11	N/A	N/A	6.0.x	L3	N/A	
Novell	SUSE Linux Ent. SRV 11	Broadcom	BRCM570x	2.7..10.1b	7.10.0	7.10.18	8.0	L3	N/A	
Novell	SUSE Linux Ent. SRV 11 SP3	Broadcom	BRCM570x	2.7..10.1b	7.10.0	7.10.18	10.0.x	L3	N/A	
Novell	SUSE Linux Ent. SRV 11	Emulex	OCx1410x	10.6.133.15	10.6.133.10	10.6.133.18	9.0.x	L1	L1	
Novell	SUSE Linux Ent. SRV 11	QLogic	BRCM577xx	2.1.11	N/A	N/A	6.0.x	L3	N/A	
Novell	SUSE Linux Ent. SRV 11	QLogic		2.7.6.2	7.10.0	7.10.18	7.0.x	L1	N/A	
Novell	SUSE Linux Ent. SRV 11	QLogic					7.1.x	L1	N/A	
Novell	SUSE Linux Ent. SRV 11	QLogic				7.12.19	9.0.x	L1	L1	
Novell	SUSE Linux Ent. SRV 11	QLogic	BRCM578xx	1.78.00	7.12.5	7.12.19	9.0	L1	L1	
Novell	SUSE Linux Ent. SRV 11	QLogic		2.7.10.1b	7.10.11	7.10.18	8.0	L3	N/A	
Novell	SUSE Linux Ent. SRV 11	QLogic		2.7.6.2	7.10.0	7.10.18	8.1.x	L1	L1	
Novell	SUSE Linux Ent. SRV 11	QLogic			7.12.5	7.12.19	9.0.x	L1	L1	
Novell	SUSE Linux Ent. SRV 11	QLogic	QLx82xx	5.04.01.09.00.00-k0	2.0.1.35	2.10.37	9.0.x	L1	L3	

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Vendor	OS Version	CNA Vendor	Model	Driver	Boot Code	Firmware	Array OS	BfS	DCB	Notes
Novell	SUSE Linux Ent. SRV 12	QLogic	BCM578xx	2.7.6.2	7.10.0	7.10.18	8.1.x	L1	L1	
Novell	SUSE Linux Ent. SRV 12	QLogic			7.12.5	7.12.19	9.0.x	L1	L1	
Oracle	Linux Server (UEK) 6.6	QLogic	BCM578xx	2.11.2.0	7.12.5	7.12.19	8.1.x	L1	L3	
Oracle	Linux Server (UEK) 6.6	QLogic					9.0.x	L1	L3	
Oracle	Linux Server (UEK) 7.0	QLogic	BCM578xx	2.11.2.0	2.8.25	7.12.17	9.0.x	L1	L3	
Oracle	Solaris 9-SPARC	QLogic	QLx405x	2.1.4.26	N/A	3.0.1.53	3.2.8	L1	N/A	
Oracle	Solaris 9-SPARC	QLogic	QLx406x	2.1.4.26	N/A	3.0.1.53	3.2.8	L1	N/A	
RedHat	Enterprise Linux 6.5	QLogic	BCM577xx	2.7.6.2	7.8.51	7.8.53	7.0.x	L1	N/A	
RedHat	Enterprise Linux 6.5	QLogic					7.1.x	L1	N/A	
RedHat	Enterprise Linux 6.6	Broadcom	BRCM570x	2.7.10.1	7.10.0	7.10.18	8.1.x	L1	N/A	
RedHat	Enterprise Linux 6.6	QLogic	BCM578xx	2.7.10.1	7.10.0	7.10.18	8.1.x	L1	L1	
RedHat	Enterprise Linux 7.0	QLogic	BCM578xx	2.7.6.2	7.10.0	7.10.18	8.1.x	L1	L1	
RedHat	Enterprise Linux 7.0	QLogic		2.11.0.0	7.12.5	7.12.19	9.0.x	L1	L1	
VMware	ESX/ESXi 5.5	Emulex	OCe1410x	10.2.309.6	10.2.506.19	10.2.506.19	8.1.x	L1	L2	

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Vendor	OS Version	CNA Vendor	Model	Driver	Boot Code	Firmware	Array OS	BfS	DCB	Notes
VMware	ESX/ESXi 5.5	QLogic	BCM578xx	1.78.11v55.4	N/A	N/A	7.0.x	L3	L2	
VMware	ESX/ESXi 5.5	QLogic					7.1.x	L1	N/A	
VMware	ESX/ESXi 5.5	QLogic	QxE82xx	634.55.23.0-1OEM	2.19	4.16.17	7.0.x	L1	L3	
VMware	ESX/ESXi 5.5	QLogic					7.1.x	L1	N/A	
VMware	ESX/ESXi 6.0	Broadcom	BRCM570x	2.78.76.v60.8-1	7.10.0	7.10.18	7.0.x	L1	N/A	
VMware	ESX/ESXi 6.0	Broadcom					7.1.x	L1	N/A	
VMware	ESX/ESXi 6.0	Broadcom					8.0.x	L1	N/A	
VMware	ESX/ESXi 6.0	Emulex	OCe1410x	10.2.309.6	10.2.506.19	10.2.506.19	8.1.x	L1	L2	
VMware	ESX/ESXi 6.0	QLogic	BCM578xx	2.78.76.v60.8-1	7.10.11	7.10.18	7.0.x	L1	N/A	
VMware	ESX/ESXi 6.0	QLogic					7.1.x	L1	N/A	
VMware	ESX/ESXi 6.0	QLogic					8.0.x	L1	N/A	

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4.2.2.2 Network interface cards for boot from SAN & DCB support for iSCSI

Network interface controllers (NIC) are the simplest class of host connectivity interfaces and provide basic Ethernet and TCP/IP functionality to the server. For storage solutions, this class of Adapters must be paired with special software within the host server operating system called a storage initiator. Dell will support any industry standards based NIC with the software iSCSI initiators listed in section 4.

The devices below have each been tested and are supported for boot from SAN functionality

Vendor	OS Version	NIC Vendor	Model	Features		Notes
				BfS	DCB	
Microsoft	Windows Server 2008 R2	Broadcom	BRCM570x	L1	N/A	
Microsoft	Windows Server 2008 R2		BRCM577xx	L1	N/A	
Microsoft	Windows Server 2008 R2	Intel	i350	L1	N/A	
Microsoft	Windows Server 2008 R2		Pro1000	L1	N/A	
Microsoft	Windows Server 2008 R2		X5xx Family	L1	L1	
Microsoft	Windows Server 2008 R2	QLogic	BRCM578xx	L1	L1	HP 534
Microsoft	Windows Server 2012	Broadcom	BRCM570x	L1	N/A	
Microsoft	Windows Server 2012		BRCM577xx	L1	N/A	
Microsoft	Windows Server 2012	Intel	X5xx Family	L1	L1	
Microsoft	Windows Server 2012		i350	L1	N/A	
Microsoft	Windows Server 2012	QLogic	BRCM578xx	L1	L3	HP 534
Microsoft	Wndows Server 2012 R2	Broadcom	BRCM570x	L1	N/A	
Microsoft	Wndows Server 2012 R2		BRCM577xx	L1	N/A	
Microsoft	Wndows Server 2012 R2	Emulex	OCx1410x	L1	L3	
Microsoft	Wndows Server 2012 R2		X5xx Family	L1	L1	

Vendor	OS Version	NIC Vendor	Model	Features		Notes
				BfS	DCB	
Microsoft	Wndows Server 2012 R2	Intel	i350	L1	N/A	
Microsoft	Wndows Server 2012 R2	QLogic	QLx82xx	L1	L3	
Novell	SUSE Linux Ent. SRV 11 SP3	Broadcom	BRCM570x	L1	N/A	
Novell	SUSE Linux Ent. SRV 11 SP3	Intel	X5xx Family	L1	L3	
Novell	SUSE Linux Ent. SRV 11 SP3	QLogic	BRCM578xx	L1	L3	
Novell	SUSE Linux Ent. SRV 12	Broadcom	BRCM570x	L1	N/A	
Novell	SUSE Linux Ent. SRV 12	Intel	X5xx Family	L1	L3	
Novell	SUSE Linux Ent. SRV 12	QLogic	BRCM578xx	L1	L3	
Oracle	Linux (UEK) 6.4	Broadcom	BRCM570x	L1	N/A	
Oracle	Linux (UEK) 6.4		BRCM578xx	L1	N/A	HP 534
Oracle	Linux (UEK) 6.5		BRCM570x	L1	N/A	
Oracle	Linux (UEK) 6.5		BRCM577xx	L1	N/A	
Oracle	Linux (UEK) 6.6		BRCM570x	L1	N/A	
Oracle	Linux (UEK) 6.6	QLogic	BRCM578xx	L1	N/A	
RedHat	Enterprise Linux 6.4	Broadcom	BRMC578xx	L1	L1	HP 534
RedHat	Enterprise Linux 6.5	Intel	i350	L1	L3	
RedHat	Enterprise Linux 6.5		X5xx Family	L1	L3	
RedHat	Enterprise Linux 7.0	Broadcom	BRCM570x	L1	N/A	
RedHat	Enterprise Linux 7.0	Intel	X5xx Family	L1	L3	
RedHat	Enterprise Linux 7.0	QLogic	BRCM578xx	L1	N/A	

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Vendor	OS Version	NIC Vendor	Model	Features		Notes
				BfS	DCB	
VMware	ESX/ESXi 5.5	Broadcom	BRCM57xx	L1	N/A	
VMware	ESX/ESXi 5.5		BRCM577xx	L1	L3	
VMware	ESX/ESXi 5.5	Intel	X5xx Family	L1	N/A	
VMware	ESX/ESXi 5.5	QLogic	BRCM578xx	L1	N/A	HP 534
VMware	ESX/ESXi 6.0	Broadcom	BRCM570x	L1	N/A	
VMware	ESX/ESXi 6.0	Intel	X5xx Family	L1	N/A	
VMware	ESX/ESXi 6.0	QLogic	BRCM578xx	L1	N/A	

4.2.2.3   Software iSCSI initiators

Software iSCSI initiators are typically provided by the host OS vendor and can be used with any industry-standards-based network interface controller (NIC). The following table provides guidance on which software iSCSI initiators have been tested with each platform and the support level for advanced features, such as boot from SAN and data center bridging (DCB) functionality. It should be noted that Microsoft Windows and Red Hat Enterprise Linux provide some level of software DCB functionality, but it has not been tested by Dell and is supported on an L3 basis. If DCB is needed to allow for a converged SAN/LAN network, it is preferable that an iSCSI CNA with iSCSI Hardware Offload capability be used.

If boot from SAN functionality is desired, it is advised that the design include one of the Adapters listed in section 4 to ensure the indicated support level.

Vendor	iSCSI Initiator/ Operating System	Initiator Version	PS Series OS Version	DCB	BfS
Citrix	XenServer 6.x	6.0.2	6.0.x	N/A	L3
Citrix	XenServer 6.x	6.2.x	6.0.x, 7.0.x, 7.1.x	N/A	L3
Microsoft	Windows Server 2008 R2	6.1.7600.16385	3.2.8+, 4.x, 5.x, 6.0.x	N/A	L1
Microsoft	Windows Server 2008 R2	6.1.7601.17514	3.2.8+, 4.x, 5.x, 6.0.x, 7.0.x, 7.1.x, 8.0, 8.1, 9.0	N/A	L1
Microsoft	Windows Server 2012	6.2.8370.0	5.2.x2, 6.0.x, 7.0.x	L3	L1
Microsoft	Windows Server 2012	6.2.9200.16451	6.0.x, 7.0.x, 7.1.x, 8.0, 8.1, 9.0	L3	L1
Microsoft	Windows Server 2012 R2	6.3.9600.16384	6.0.x, 7.0.x, 7.1.x, 8.0.x, 8.1, 9.0	L3	L1
Novell	SUSE Linux Enterprise Server 11	2.0-870	3.2.8+, 4.x, 5.x	N/A	L3
Novell	SUSE Linux Enterprise Server 11	2.0-873	7.0.x, 8.0.x, 8.1, 9.0	N/A	L3
Novell	SUSE Linux Enterprise Server 12	2.0-873	7.0.x, 7.1.x, 8.0.x, 8.1, 9.0	N/A	L3
Oracle	Enterprise Linux Server 6	6	5.0.2+	N/A	L3
Oracle	Enterprise Linux Server 6	6.2.0-873.13.0.1	8.0, 8.1, 9.0	N/A	L1
Oracle	Linux Server UEK 6.5	6.2.0-873.10.0.0	7.0.x, 7.1.x	N/A	L1
Oracle	Linux Server UEK 6.5	6.2.0-873.13.0.1	8.0, 8.1, 9.0	N/A	L1

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Vendor	iSCSI Initiator/ Operating System	Initiator Version	PS Series OS Version	DCB	BfS
Oracle	Linux Server UEK 7.0	6.2.0.873-14	8.0, 8.1, 9.0	N/A	L3
RedHat	Enterprise Linux Server 6	6.2.0.872-10	4.x, 5.x, 6.x	N/A	L1
RedHat	Enterprise Linux Server 6	6.2.0.872-33	4.x, 5.x, 6.x	L3	L1
RedHat	Enterprise Linux Server 6	6.2.0.872-41	4.x, 5.x, 6.x	L3	L1
RedHat	Enterprise Linux Server 6	6.2.0.873-2	4.x, 5.x, 6.x	L3	L1
RedHat	Enterprise Linux Server 6	6.2.0.873-13	8.0.x, 8.1.x	L3	L1
RedHat	Enterprise Linux Server 7	6.2.0.873-21	7.0.x, 7.1.x, 8.0.x, 8.1, 9.0	L3	L1
VMware	ESX/ESXi 5.5	In-Box	6.0.x, 7.0.x, 7.1.x, 8.1, 9.0	N/A	L1
VMware	ESX/ESXi 6.0	In-Box	7.0.x, 7.1.x, 8.0.x, 8.1.x, 9.0	N/A	L1

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4.3   SAS (SC and SCv)

The following table lists serial attached SCSI (SAS) HBAs that have been tested with the SC and SCv Series of array products. SAS HBAs, other than those listed below, are NOT supported by Dell at this time.

Note1:   Windows Storage Server 2012 and higher follow the same characteristics and support of Windows Server 2012 and higher.

Operating System	Host Adapter	Adapter Driver	Firmware	SC Version	SCv	BfS	Notes
Microsoft 2008 Windows Server R2 SP1	Dell 12G SAS Adapter	2.50.75.01	03.00.08.00	6.6.x	Y	Not Supported	
Microsoft 2008 Windows Server R2 SP1	Dell 12G SAS Adapter	2.50.75.01	03.00.08.00	6.7.x	Y	Not Supported	
Microsoft 2008 Windows Server R2 SP1	Dell 12G SAS Adapter	2.50.92.0	09.00.09.00-IT	7.1.x	Y	Not Supported	Dell fw kit: 9.17.20.07,A01
Microsoft 2008 Windows Server R2 SP1	Dell 12G SAS Adapter	2.51.1.2	13.00.00.00-IT	7.2.x	Y	Not Supported	Dell fw kit: 13.17.03.00_A03
Microsoft 2008 Windows Server R2 SP1	Dell 12G SAS Adapter	2.51.1.2	13.00.00.00-IT	7.3.x	Y	Not Supported	Dell fw kit: 13.17.03.00_A03
Microsoft 2008 Windows Server R2 SP1	Dell 12G SAS Adapter	2.51.1.2	09.00.09.00-IT	7.1.x	Y	Not Supported	Dell fw kit: 9.17.20.07,A01
Microsoft 2008 Windows Server R2 SP1	Dell 12G SAS Adapter	2.51.1.2	09.00.09.00-IT	7.2.x	Y	Not Supported	Dell fw kit: 9.17.20.07,A01
Microsoft 2008 Windows Server R2 SP1	LSI 9300-8e	2.50.80.0	03.00.08.00	7.2.x	Y	Not Supported	
Microsoft 2008 Windows Server R2 SP1	LSI 9300-8e	2.50.80.0	13.00.00.00-IT	7.2.x	Y	Not Supported	
Microsoft 2008 Windows Server R2 SP1	LSI 9300-8e	2.50.80.0	13.00.00.00-IT	7.3.x	Y	Not Supported	
Microsoft 2008 Windows Server R2 SP1	LSI 9300-8e	2.50.80.0	15.00.00.00-IT	7.2.x	Y	Not Supported	
Microsoft 2012 Windows Server	Dell 12G SAS Adapter	2.50.75.01	03.00.08.00	6.6.x	Y	Not Supported	
Microsoft 2012 Windows Server	Dell 12G SAS Adapter	2.50.75.01	03.00.08.00	6.7.x	Y	Not Supported	

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Operating System	Host Adapter	Adapter Driver	Firmware	SC Version	SCv	BfS	Notes
Microsoft 2012 Windows Server	Dell 12G SAS Adapter	2.50.75.01	09.00.09.00-IT	7.1.x	Y	Not Supported	Dell fw kit: 9.17.20.07,A01
Microsoft 2012 Windows Server	Dell 12G SAS Adapter	2.51.1.2	13.00.00.00-IT	7.2.x	Y	Not Supported	Dell fw kit: 13.17.03.00_A03
Microsoft 2012 Windows Server	Dell 12G SAS Adapter	2.51.1.2	13.00.00.00-IT	7.3.x	Y	Not Supported	Dell fw kit: 13.17.03.00_A03
Microsoft 2012 Windows Server	Dell 12G SAS Adapter	2.51.1.2	09.00.09.00-IT	7.1.x	Y	Not Supported	Dell fw kit: 9.17.20.07,A01
Microsoft 2012 Windows Server	Dell 12G SAS Adapter	2.51.1.2	09.00.09.00-IT	7.2.x	Y	Not Supported	Dell fw kit: 9.17.20.07,A01
Microsoft 2012 Windows Server R2	Dell 12G SAS Adapter	2.50.75.01	03.00.08.00	6.6.x	Y	Not Supported	
Microsoft 2012 Windows Server R2	Dell 12G SAS Adapter	2.50.75.01	03.00.08.00	6.7.x	Y	Not Supported	
Microsoft 2012 Windows Server R2	Dell 12G SAS Adapter	2.50.75.01	09.00.09.00-IT	7.1.x	Y	Not Supported	Dell fw kit: 9.17.20.07,A01
Microsoft 2012 Windows Server R2	Dell 12G SAS Adapter	2.51.1.2	13.00.00.00-IT	7.2.x	Y	Not Supported	Dell fw kit: 13.17.03.00_A03
Microsoft 2012 Windows Server R2	Dell 12G SAS Adapter	2.51.1.2	13.00.00.00-IT	7.3.x	Y	Not Supported	Dell fw kit: 13.17.03.00_A03
Microsoft 2012 Windows Server R2	Dell 12G SAS Adapter	2.51.1.2	09.00.09.00-IT	7.1.x	Y	Not Supported	Dell fw kit: 9.17.20.07,A01
Microsoft 2012 Windows Server R2	Dell 12G SAS Adapter	2.51.1.2	09.00.09.00-IT	7.2.x	Y	Not Supported	Dell fw kit: 9.17.20.07,A01
Microsoft 2012 Windows Server R2	LSI 9300-8e	2.50.80.1	03.00.08.00	7.2.x	Y	Not Supported	
Microsoft 2012 Windows Server R2	LSI 9300-8e	2.50.80.1	13.00.00.00-IT	7.2.x	Y	Not Supported	
Microsoft 2012 Windows Server R2	LSI 9300-8e	2.50.80.1	13.00.00.00-IT	7.3.x	Y	Not Supported	
Microsoft 2012 Windows Server R2	LSI 9300-8e	2.50.80.1	15.00.00.00-IT	7.2.x	Y	Not Supported	
Microsoft 2016 Windows Server	Dell 12G SAS Adapter	2.51.15.0	13.00.00.00-IT	7.1.x	Y	Not Supported	Dell fw kit: 13.17.03.00_A03

Operating System	Host Adapter	Adapter Driver	Firmware	SC Version	SCv	BfS	Notes
Microsoft 2016 Windows Server	Dell 12G SAS Adapter	2.51.15.0	13.00.00.00-IT	7.2.x	Y	Not Supported	Dell fw kit: 13.17.03.00_A03
Microsoft 2016 Windows Server	Dell 12G SAS Adapter	2.51.15.0	13.00.00.00-IT	7.3.x	Y	Not Supported	Dell fw kit: 13.17.03.00_A03
Microsoft 2016 Windows Server	LSI 9300-8e	2.51.12.80	03.00.08.00	7.2.x	Y	Not Supported	
Microsoft 2016 Windows Server	LSI 9300-8e	2.51.12.80	13.00.00.00-IT	7.2.x	Y	Not Supported	
Microsoft 2016 Windows Server	LSI 9300-8e	2.51.12.80	13.00.00.00-IT	7.3.x	Y	Not Supported	
Microsoft 2016 Windows Server	LSI 9300-8e	2.51.12.80	15.00.00.00-IT	7.2.x	Y	Not Supported	
Red Hat RHEL 6.6 x64	Dell 12G SAS Adapter	OS Built-In	03.00.08.00	6.7.x	Y	Not Supported	
Red Hat RHEL 6.6 x64	Dell 12G SAS Adapter	4.00.01.00	03.00.08.00	6.6.x	Y	Not Supported	
Red Hat RHEL 6.7 x64	Dell 12G SAS Adapter	04.100.00.00-rh	09.00.09.00-IT	7.1.x	Y	Not Supported	Dell fw kit: 9.17.20.07,A01
Red Hat RHEL 6.7 x64	Dell 12G SAS Adapter	04.100.00.00-rh	09.00.09.00-IT	7.2.x	Y	Not Supported	Dell fw kit: 9.17.20.07,A01
Red Hat RHEL 6.8 x64	Dell 12G SAS Adapter	04.100.00.00-rh	13.00.00.00-IT	7.2.x	Y	Not Supported	Dell fw kit: 13.17.03.00_A03
Red Hat RHEL 6.8 x64	LSI 9300-8e	09.102.00.00-rh	03.00.08.00	7.2.x	Y	Not Supported	
Red Hat RHEL 6.8 x64	LSI 9300-8e	09.102.00.00-rh	13.00.00.00-IT	7.2.x	Y	Not Supported	
Red Hat RHEL 6.9 x64	Dell 12G SAS Adapter	14.101.00.00-rh	13.00.00.00-IT	7.2.x	Y	Not Supported	Dell fw kit: 13.17.03.00_A03
Red Hat RHEL 6.9 x64	Dell 12G SAS Adapter	14.101.00.00-rh	13.00.00.00-IT	7.3.x	Y	Not Supported	Dell fw kit: 13.17.03.00_A03
Red Hat RHEL 6.9 x64	LSI 9300-8e	09.102.00.00-rh	13.00.00.00-IT	7.3.x	Y	Not Supported	
Red Hat RHEL 6.9 x64	LSI 9300-8e	09.102.00.00-rh	15.00.00.00-IT	7.2.x	Y	Not Supported	

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Operating System	Host Adapter	Adapter Driver	Firmware	SC Version	SCv	BfS	Notes
Red Hat RHEL 7.0 x64	Dell 12G SAS Adapter	OS Built-In	03.00.08.00	6.7.x	Y	Not Supported	
Red Hat RHEL 7.0 x64	Dell 12G SAS Adapter	4.00.01.00	03.00.08.00	6.6.x	Y	Not Supported	
Red Hat RHEL 7.2 x64	Dell 12G SAS Adapter	04.100.00.00-rh	09.00.09.00-IT	7.1.x	Y	Not Supported	Dell fw kit: 9.17.20.07,A01
Red Hat RHEL 7.2 x64	Dell 12G SAS Adapter	04.100.00.00-rh	09.00.09.00-IT	7.2.x	Y	Not Supported	Dell fw kit: 9.17.20.07,A01
Red Hat RHEL 7.3 x64	Dell 12G SAS Adapter	04.100.00.00-rh	13.00.00.00-IT	7.2.x	Y	Not Supported	Dell fw kit: 13.17.03.00_A03
Red Hat RHEL 7.3 x64	LSI 9300-8e	13.100.00.00-rh	03.00.08.00	7.2.x	Y	Not Supported	
Red Hat RHEL 7.3 x64	LSI 9300-8e	13.100.00.00-rh	13.00.00.00-IT	7.2.x	Y	Not Supported	
Red Hat RHEL 7.4 x64	Dell 12G SAS Adapter	15.100.00.00	13.00.00.00-IT	7.2.x	Y	Not Supported	Dell fw kit: 13.17.03.00_A03
Red Hat RHEL 7.4 x64	Dell 12G SAS Adapter	15.100.00.00	13.00.00.00-IT	7.3.x	Y	Not Supported	Dell fw kit: 13.17.03.00_A03
Red Hat RHEL 7.4 x64	LSI 9300-8e	13.100.00.00-rh	13.00.00.00-IT	7.3.x	Y	Not Supported	
Red Hat RHEL 7.4 x64	LSI 9300-8e	13.100.00.00-rh	15.00.00.00-IT	7.2.x	Y	Not Supported	
VMWare ESXi 5.5	Dell 12G SAS Adapter	04.00.00.00.1vmw	03.00.08.00	6.6.x	Y	Not Supported	
VMWare ESXi 5.5	Dell 12G SAS Adapter	mpt3sas 10.00.02.00 - 5.5	13.00.00.00-IT	7.2.x	Y	Not Supported	Dell fw kit: 13.17.03.00_A03
VMWare ESXi 5.5	Dell 12G SAS Adapter	mpt3sas 10.00.02.00 - 5.5	09.00.09.00-IT	6.7.x	Y	Not Supported	Dell fw kit: 9.17.20.07,A01
VMWare ESXi 5.5	Dell 12G SAS Adapter	mpt3sas 10.00.02.00 - 5.5	09.00.09.00-IT	7.1.x	Y	Not Supported	Dell fw kit: 9.17.20.07,A01

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Operating System	Host Adapter	Adapter Driver	Firmware	SC Version	SCv	BfS	Notes
VMWare ESXi 5.5	Dell 12G SAS Adapter	mpt3sas 10.00.02.00 - 5.5	09.00.09.00-IT	7.2.x	Y	Not Supported	Dell fw kit: 9.17.20.07,A01
VMWare ESXi 5.5	Dell 12G SAS Adapter	mpt3sas 04.00.00.00.1v mw	03.00.08.00	6.7.x	Y	Not Supported	
VMWare ESXi 5.5	Dell 12G SAS Adapter	mpt3sas 13.00.00.00	13.00.00.00-IT	7.2.x	Y	Not Supported	Dell fw kit: 13.17.03.00_A03
VMWare ESXi 5.5	Dell 12G SAS Adapter	mpt3sas 13.00.00.00	13.00.00.00-IT	7.3.x	Y	Not Supported	Dell fw kit: 13.17.03.00_A03
VMWare ESXi 5.5	LSI 9300-8e	mpt3sas 04.00.00.00.1v mw	03.00.08.00	7.2.x	Y	Not Supported	
VMWare ESXi 5.5	LSI 9300-8e	mpt3sas 04.00.00.00.1v mw	13.00.00.00-IT	7.2.x	Y	Not Supported	
VMWare ESXi 5.5	LSI 9300-8e	mpt3sas 04.00.00.00.1v mw	13.00.00.00-IT	7.3.x	Y	Not Supported	
VMWare ESXi 6.0	Dell 12G SAS Adapter	mpt3sas 04.00.00.00.1v mw	03.00.08.00	6.7.x	Y	Not Supported	
VMWare ESXi 6.0	Dell 12G SAS Adapter	mpt3sas 13.00.00.00	13.00.00.00-IT	7.2.x	Y	Not Supported	Dell fw kit: 13.17.03.00_A03
VMWare ESXi 6.0	Dell 12G SAS Adapter	mpt3sas 13.00.00.00	13.00.00.00-IT	7.3.x	Y	Not Supported	Dell fw kit: 13.17.03.00_A03
VMWare ESXi 6.0	Dell 12G SAS Adapter	mpt3sas 10.00.02.00 - 6.0	13.00.00.00-IT	7.2.x	Y	Not Supported	Dell fw kit: 13.17.03.00_A03
VMWare ESXi 6.0	Dell 12G SAS Adapter	mpt3sas 10.00.02.00 - 6.0	09.00.09.00-IT	6.7.x	Y	Not Supported	Dell fw kit: 9.17.20.07,A01

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Operating System	Host Adapter	Adapter Driver	Firmware	SC Version	SCv	BfS	Notes
VMWare ESXi 6.0	Dell 12G SAS Adapter	mpt3sas 10.00.02.00 - 6.0	09.00.09.00-IT	7.1.x	Y	Not Supported	Dell fw kit: 9.17.20.07,A01
VMWare ESXi 6.0	Dell 12G SAS Adapter	mpt3sas 10.00.02.00 - 6.0	09.00.09.00-IT	7.2.x	Y	Not Supported	Dell fw kit: 9.17.20.07,A01
VMWare ESXi 6.0	LSI 9300-8e	mpt3sas 04.00.00.00.1v mw	03.00.08.00	7.2.x	Y	Not Supported	
VMWare ESXi 6.0	LSI 9300-8e	mpt3sas 04.00.00.00.1v mw	13.00.00.00-IT	7.2.x	Y	Not Supported	
VMWare ESXi 6.0	LSI 9300-8e	mpt3sas 04.00.00.00.1v mw	13.00.00.00-IT	7.3.x	Y	Not Supported	
VMWare ESXi 6.5	Dell 12G SAS Adapter	lsi_msgpt3 12.00.02.00-11vmw	13.00.00.00-IT	7.2.x	Y	Not Supported	Dell fw kit: 13.17.03.00_A03
VMWare ESXi 6.5	Dell 12G SAS Adapter	lsi_msgpt3 12.00.02.00-11vmw	13.00.00.00-IT	7.3.x	Y	Not Supported	Dell fw kit: 13.17.03.00_A03
VMWare ESXi 6.5	LSI 9300-8e	lsi_msgpt3 12.00.02.00-11vmw	03.00.08.00	7.2.x	Y	Not Supported	
VMWare ESXi 6.5	LSI 9300-8e	lsi_msgpt3 12.00.02.00-11vmw	13.00.00.00-IT	7.2.x	Y	Not Supported	
VMWare ESXi 6.5	LSI 9300-8e	lsi_msgpt3 12.00.02.00-11vmw	13.00.00.00-IT	7.3.x	Y	Not Supported	
VMWare ESXi 6.5	LSI 9300-8e	lsi_msgpt3 12.00.02.00-11vmw	13.00.00.00-IT				

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Dell EMC Storage Compatibility Matrix for SC, PS and FS Series Arrays |

4.4 Fibre Channel over Ethernet (SC)

4.4.1 SC Series

4.4.1.1 FCoE HBAs and CNAs

Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
Microsoft 2008 Windows Server R2 SP1	Cisco VIC-12xx	2.1.0.27	2.2(3d)	2.2(3d)	6.6.x	Y	L1	
Microsoft 2008 Windows Server R2 SP1	Cisco VIC-12xx	2.1.0.29	2.2(4b)	2.2(4b)	6.7.x	Y	L1	
Microsoft 2008 Windows Server R2 SP1	QLogic QXE826x	9.1.12.10	3.24	4.16.101	6.6.x	Y	L1	Dell fw kit: 2.10.07
Microsoft 2008 Windows Server R2 SP1	QLogic QXE826x	9.1.12.10	3.28	4.18.04	6.7.x	Y	L1	Dell fw kit: 2.10.29
Microsoft 2008 Windows Server R2 SP1	QLogic QXE826x	9.1.13.10	3.29	4.18.04	7.1.x	Y	L1	Dell fw kit: 02.10.37
Microsoft 2008 Windows Server R2 SP1	QLogic QXE826x	9.1.13.10	3.31	4.18.04	6.7.x	Y	L1	Dell fw kit: 02.10.38
Microsoft 2008 Windows Server R2 SP1	QLogic QXE826x	9.1.13.10	3.31	4.18.04	7.1.x	Y	L1	Dell fw kit: 02.10.38
Microsoft 2008 Windows Server R2 SP1	QLogic QXE826x	9.1.13.10	3.31	4.18.04	7.2.x	Y	L1	Dell fw kit: 02.10.38
Microsoft 2008 Windows Server R2 SP1	QLogic QXE826x	9.1.13.10	3.44	4.20.21	7.2.x	Y	L1	Dell fw kit: 09.00.03
Microsoft 2008 Windows Server R2 SP1	QLogic QXE826x	9.1.13.10	3.44	4.20.21	7.3.x	Y	L1	Dell fw kit: 09.00.03
Microsoft 2012 Windows Server R2	Broadcom 57810	7.10.3.0	7.10.1	7.10.10.0	6.6.x	Y	L1	Dell fw kit: 7.8.16
Microsoft 2012 Windows Server R2	Broadcom 57810	7.12.1.0	7.12.4	7.12.17	6.7.x	Y	L1	

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Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
Microsoft 2012 Windows Server R2	Broadcom 57810	7.14.3.0	7.13.60.0	7.13.60.0	6.7.x	Y	L1	Dell fw kit: 08.07.25
Microsoft 2012 Windows Server R2	Broadcom 57810	7.14.3.0	7.13.60.0	7.13.60.0	7.1.x	Y	L1	Dell fw kit: 08.07.25
Microsoft 2012 Windows Server R2	Broadcom 57810	7.14.3.0	7.13.60.0	7.13.60.0	7.2.x	Y	L1	Dell fw kit: 08.07.25
Microsoft 2012 Windows Server R2	Broadcom 57810	7.12.42.0	7.12.4	7.12.19	7.1.x	Y	L1	
Microsoft 2012 Windows Server R2	Broadcom 57810	7.14.14.0	7.15.0	10.01.00	7.2.x	Y	L1	
Microsoft 2012 Windows Server R2	Broadcom 57810	7.14.14.0	7.15.0	10.01.00	7.3.x	Y	L1	
Microsoft 2012 Windows Server R2	Cisco VIC-12xx	2.4.0.8	2.2(3d)	2.2(3d)	6.6.x	Y	L1	
Microsoft 2012 Windows Server R2	Cisco VIC-12xx	2.4.0.9	2.2(4b)	2.2(4b)	6.7.x	Y	L1	
Microsoft 2012 Windows Server R2	Emulex OCx1410x	10.6.114.0	10.6.133.18	10.6.133.18	6.7.x	Y	L1	
Microsoft 2012 Windows Server R2	Emulex OCx1410x	10.4.246.0	10.2.506.19	10.2.506.19	6.6.x	Y	L1	
Microsoft 2012 Windows Server R2	Emulex OCx1410x	11.0.247.0	11.0.270.15	11.0.270.15	7.1.x	Y	L1	Dell fw kit: 02.00.01
Microsoft 2012 Windows Server R2	Emulex OCx1410x	11.0.247.0	11.0.270.4	11.0.270.2007	7.1.x	Y	L1	Dell fw kit: 02.00.04
Microsoft 2012 Windows Server R2	Emulex OCx1410x	11.0.247.0	11.0.270.4	11.0.270.2007	7.2.x	Y	L1	Dell fw kit: 02.00.04
Microsoft 2012 Windows Server R2	Emulex OCx1410x	11.2.1135.0	11.2.1197.13	11.2.1197.13	7.2.x	Y	L1	Dell fw kit: 02.01.01
Microsoft 2012 Windows Server R2	Emulex OCx1410x	11.2.1135.0	11.2.1197.13	11.2.1197.13	7.3.x	Y	L1	Dell fw kit: 02.01.01
Microsoft 2012 Windows Server R2	QLogic QXE826x	9.1.11.12	3.23	4.16.17	6.6.x	Y	L1	Dell fw kit: 02.10.07
Microsoft 2012 Windows Server R2	QLogic QXE826x	9.1.12.10	3.24	4.16.101	6.6.x	Y	L1	

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Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
Microsoft 2012 Windows Server R2	QLogic QXE826x	9.1.12.10	3.28	4.18.04	6.7.x	Y	L1	Dell fw kit: 2.10.29
Microsoft 2012 Windows Server R2	QLogic QXE826x	9.1.13.10	3.29	4.18.04	7.1.x	Y	L1	Dell fw kit: 02.10.37
Microsoft 2012 Windows Server R2	QLogic QXE826x	9.1.13.10	3.31	4.18.04	7.1.x	Y	L1	Dell fw kit: 02.10.38
Microsoft 2012 Windows Server R2	QLogic QXE826x	9.1.13.10	3.31	4.18.04	7.2.x	Y	L1	Dell fw kit: 02.10.38
Microsoft 2012 Windows Server R2	QLogic QXE826x	9.1.13.10	3.44	4.20.21	7.2.x	Y	L1	Dell fw kit: 09.00.03
Microsoft 2012 Windows Server R2	QLogic QXE826x	9.1.13.10	3.44	4.20.21	7.3.x	Y	L1	Dell fw kit: 09.00.03
Red Hat RHEL 7.0 x64	Cisco VIC-12xx	1.6.0.10	2.2(3d)	2.2(3d)	6.6.x	Y	L1	
Red Hat RHEL 7.1 x64	Cisco VIC-12xx	1.6.0.18	2.2(4b)	2.2(4b)	6.7.x	Y	L1	
VMWare ESXi 5.1	Broadcom 57810	1.711.10.v50.3	2.2(4b)	7.10.18	6.6.x		L3	
VMWare ESXi 5.1	QLogic QXE826x	934.5.20.0-1vmw	3.23	4.16.17	6.6.x		L1	Dell fw kit: 02.10.07
VMWare ESXi 5.1	QLogic QXE826x	934.5.45.0	3.23	4.16.101	6.6.x		L1	Dell fw kit: 02.10.22
VMWare ESXi 5.5	Broadcom 57810	1.711.10v55.2	7.8.5	7.8.55	6.6.x	Y	L1	Dell fw kit: 7.10.18
VMWare ESXi 5.5	Broadcom 57810	1.712.30.v55.2	7.12.4	7.12.17	6.7.x	Y	L1	
VMWare ESXi 5.5	Broadcom 57810	1.712.70.v55.5	7.12.4	08.07.25	6.7.x	Y	L1	
VMWare ESXi 5.5	Broadcom 57810	1.712.70.v55.5	7.12.4	08.07.25	7.1.x	Y	L1	
VMWare ESXi 5.5	Broadcom 57810	1.712.70.v55.5	7.12.4	08.07.25	7.2.x	Y	L1	
VMWare ESXi 5.5	Broadcom 57810	1.712.70.v55.5	7.12.5	7.12.19	7.1.x	Y	L1	
VMWare ESXi 5.5	Broadcom 57810	1.713.10.v55.4	7.15.0	10.01.00	7.2.x	Y	L1	Dell fw kit: 10.01.00
VMWare ESXi 5.5	Broadcom 57810	1.713.10.v55.4	7.15.0	10.01.00	7.3.x	Y	L1	Dell fw kit: 10.01.00
VMWare ESXi 5.5	Cisco VIC-12xx	1.6.0.17a	2.2(4b)	2.2(4b)	6.7.x	Y	L1	
VMWare ESXi 5.5	Cisco VIC-12xx	1.6.0.12b	2.2(3d)	2.2(3d)	6.6.x	Y	L1	
VMWare ESXi 5.5	Emulex OCx1410x	10.6.126.0	10.6.133.18	10.6.133.18	6.7.x	Y	L1	Dell fw kit: 01.06.01
VMWare ESXi 5.5	Emulex OCx1410x	10.6.126.0	11.0.270.4	11.0.270.2007	7.1.x	Y	L1	Dell fw kit: 02.00.04

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Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
VMWare ESXi 5.5	Emulex OCx1410x	10.2.455.0	10.2.506.19	10.2.506.19	6.6.x	Y	L1	
VMWare ESXi 5.5	Emulex OCx1410x	11.1.145.18	11.0.270.4	11.0.270.2007	6.7.x	Y	L1	Dell fw kit: 02.00.04
VMWare ESXi 5.5	Emulex OCx1410x	11.1.145.18	11.0.270.4	11.0.270.2007	7.2.x	Y	L1	Dell fw kit: 02.00.04
VMWare ESXi 5.5	Emulex OCx1410x	11.1.145.18	11.2.1197.13	11.2.1197.13	7.2.x	Y	L1	Dell fw kit: 02.01.01
VMWare ESXi 5.5	Emulex OCx1410x	11.1.145.18	11.2.1197.13	11.2.1197.13	7.3.x	Y	L1	Dell fw kit: 02.01.01
VMWare ESXi 5.5	Emulex OCx1410x	11.0.237.0	10.6.133.18	10.6.133.18	7.1.x	Y	L1	Dell fw kit: 01.06.01
VMWare ESXi 5.5	QLogic QLE815x	1.1.41.0	3.23	7.00.02	6.6.x	Y	L1	Dell fw kit: 2.01.12
VMWare ESXi 5.5	QLogic QXE826x	1.1.7.0	3.23	4.16.17	6.6.x	Y	L1	Dell fw kit: 02.10.07
VMWare ESXi 5.5	QLogic QXE826x	1.1.41.0	3.23	4.16.101	6.6.x	Y	L1	Dell fw kit: 02.10.22
VMWare ESXi 5.5	QLogic QXE826x	1.1.55.0	3.28	4.18.04	6.7.x	Y	L1	Dell fw kit: 2.10.29
VMWare ESXi 5.5	QLogic QXE826x	1.1.55.0	3.29	4.18.04	7.1.x	Y	L1	Dell fw kit: 02.10.37
VMWare ESXi 5.5	QLogic QXE826x	1.1.55.0	3.31	4.18.04	7.1.x	Y	L1	Dell fw kit: 02.10.38
VMWare ESXi 5.5	QLogic QXE826x	1.1.70.0	3.29	4.18.04	7.1.x	Y	L1	Dell fw kit: 02.10.37
VMWare ESXi 5.5	QLogic QXE826x	1.1.70.0	3.31	4.18.04	6.7.x	Y	L1	Dell fw kit: 02.10.38
VMWare ESXi 5.5	QLogic QXE826x	1.1.70.0	3.31	4.18.04	7.1.x	Y	L1	Dell fw kit: 02.10.38
VMWare ESXi 5.5	QLogic QXE826x	1.1.70.0	3.31	4.18.04	7.2.x	Y	L1	Dell fw kit: 02.10.38
VMWare ESXi 5.5	QLogic QXE826x	1.1.70.0	3.44	4.20.21	7.2.x	Y	L1	Dell fw kit: 09.00.03
VMWare ESXi 5.5	QLogic QXE826x	1.1.70.0	3.44	4.20.21	7.3.x	Y	L1	Dell fw kit: 09.00.03
VMWare ESXi 5.5	Emulex OCe1110x	10.2.445.0	10.4.170.0	10.4.170.0	6.6.x	Y	L1	Dell fw kit: 10.4.255.25
VMWare ESXi 6.0	Broadcom 57810	1.712.10.v55.2	10.4.170.0	7.10.18	6.6.x	Y	L3	
VMWare ESXi 6.0	Broadcom 57810	1.712.10.v55.2		N/A	7.1.x	Y	L3	Dell fw kit: 08.07.25
VMWare ESXi 6.0	Broadcom 57810	1.712.10.v55.2		N/A	7.2.x	Y	L3	Dell fw kit: 08.07.25
VMWare ESXi 6.0	Broadcom 57810	1.712.30.v55.2		08.07.25	7.1.x	Y	L3	
VMWare ESXi 6.0	Broadcom 57810	1.712.30.v55.2		08.07.25	7.2.x	Y	L3	

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Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
VMWare ESXi 6.0	Broadcom 57810	1.712.30.v55.2		7.12.4	6.7.x	Y	L3	Dell fw kit: 7.12.17
VMWare ESXi 6.0	Broadcom 57810	1.712.30.v55.2		7.12.4	7.1.x	Y	L3	Dell fw kit: 7.12.19
VMWare ESXi 6.0	Broadcom 57810	1.712.30.v55.2		N/A	6.7.x	Y	L3	Dell fw kit: 7.12.17
VMWare ESXi 6.0	Broadcom 57810	1.712.70.v55.5		N/A	6.7.x	Y	L3	Dell fw kit: 08.07.25
VMWare ESXi 6.0	Broadcom 57810	1.712.70.v55.5		N/A	7.1.x	Y	L3	Dell fw kit: 08.07.25
VMWare ESXi 6.0	Broadcom 57810	1.712.70.v55.5		N/A	7.2.x	Y	L3	Dell fw kit: 08.07.25
VMWare ESXi 6.0	Broadcom 57810	1.713.10.v60.4		08.07.25	7.1.x	Y	L3	
VMWare ESXi 6.0	Broadcom 57810	1.713.10.v60.4		08.07.25	7.2.x	Y	L3	
VMWare ESXi 6.0	Broadcom 57810	1.713.30.v60.3		10.01.00	7.2.x	Y	L3	Dell fw kit: 10.01.00
VMWare ESXi 6.0	Broadcom 57810	1.713.30.v60.3		10.01.00	7.3.x	Y	L3	Dell fw kit: 10.01.00
VMWare ESXi 6.0	Broadcom 57810	1.713.30.v60.6		10.01.00	7.3.x	Y	L3	Dell fw kit: 10.01.00
VMWare ESXi 6.0	Emulex OCx1410x	10.6.126.0	10.6.133.18	10.6.133.18	7.1.x	Y	L1	Dell fw kit: 01.06.01
VMWare ESXi 6.0	Emulex OCx1410x	11.4.142.11	11.2.1197.13	11.2.1197.13	7.3.x	Y	L1	Dell fw kit: 02.01.01
VMWare ESXi 6.0	Emulex OCx1410x	11.2.156.20	11.2.1197.13	11.2.1197.13	7.2.x	Y	L1	Dell fw kit: 02.01.01
VMWare ESXi 6.0	Emulex OCx1410x	11.1.145.18	11.0.270.4	11.0.270.2002	7.1.x	Y	L1	Dell fw kit: 02.00.04
VMWare ESXi 6.0	Emulex OCx1410x	11.1.145.18	11.0.270.4	11.0.270.2007	7.1.x	Y	L1	Dell fw kit: 02.00.04
VMWare ESXi 6.0	Emulex OCx1410x	11.1.145.18	11.0.270.4	11.0.270.2007	7.2.x	Y	L1	Dell fw kit: 02.00.04
VMWare ESXi 6.0	QLogic QXE826x	1.1.41.0	3.23	4.16.101	6.6.x	Y	L1	Dell fw kit: 02.10.22
VMWare ESXi 6.0	QLogic QXE826x	1.1.39.0	3.23	4.16.101	6.6.x	Y	L1	Dell fw kit: 02.10.22
VMWare ESXi 6.0	QLogic QXE826x	2.1.20.0	3.28	4.18.04	6.7.x	Y	L1	Dell fw kit: 2.10.29
VMWare ESXi 6.0	QLogic QXE826x	2.1.43.0	3.31	4.18.04	6.7.x	Y	L1	Dell fw kit: 02.10.38
VMWare ESXi 6.0	QLogic QXE826x	2.1.43.0	3.31	4.18.04	7.1.x	Y	L1	Dell fw kit: 02.10.38
VMWare ESXi 6.0	QLogic QXE826x	2.1.43.0	3.31	4.18.04	7.2.x	Y	L1	Dell fw kit: 02.10.38
VMWare ESXi 6.0	QLogic QXE826x	2.1.24.0	3.29	4.18.04	7.1.x	Y	L1	Dell fw kit: 02.10.37
VMWare ESXi 6.0	QLogic QXE826x	2.1.24.0	3.31	4.18.04	7.1.x	Y	L1	Dell fw kit: 02.10.38

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Operating System	Host Adapter	Adapter Driver	BootCode	Firmware	SC Version	SCv	BfS	Notes
VMWare ESXi 6.0	QLogic QXE826x	2.1.24.0	3.31	4.18.04	7.2.x	Y	L1	Dell fw kit: 02.10.38
VMWare ESXi 6.0	QLogic QXE826x	2.1.50.0	3.44	4.20.21	7.2.x	Y	L1	Dell fw kit: 09.00.03
VMWare ESXi 6.0	QLogic QXE826x	2.1.57.0	3.44	4.20.21	7.3.x	Y	L1	Dell fw kit: 09.00.03

4.4.1.2 Software FCoE initiators

Software FCoE initiators may be provided by the host OS vendor and can be used with any industry-standards-based network interface controller (NIC) that supports software-based FCoE. The following table provides guidance on which software FCoE initiators have been tested with each platform and the support level for advanced features, such as boot from SAN.

If boot from SAN functionality is desired, it is advised that the design include one of the Adapters listed ensure the indicated support level. Always verify OS support by SC Series product.

NEW

Operating System	Host Adapter	SC Version	SCv	BfS	Notes
VMWare ESXi 5.1	Intel x520	6.5.x		L3	
VMWare ESXi 5.5	Broadcom 57810	6.5.x	Y	L1	
	Intel x520	6.6.x	Y	L3	
		6.7.x	Y	L3	
		7.0.x	Y	L3	
		7.1.x	Y	L3	
		7.2.x	Y	L3	
		7.3.x	Y	L3	
VMWare ESXi 6.0	Intel x520	6.7.x	Y	L3	
		7.0.x	Y	L3	
		7.1.x	Y	L3	
		7.2.x	Y	L3	
		7.3.x	Y	L3	

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5   Other support matrices

5.1   Cisco UCS support

In cooperation with Cisco, Dell is now certified for certain UCS configurations. UCS certifications can be found on the Cisco UCS Interoperability Matrix.

5.2   Storage virtualization appliances

Dell does not directly test or validate third-party storage virtualization appliances in front of Dell storage products. Dell does work with various third-party vendors of such appliances to ensure that our arrays have been validated with these vendor's devices and to ensure that our storage products are listed in each vendor's respective certification matrices. Please reference the vendor specific sites to verify product interoperability support.

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A Deprecated Devices

A.1 Host configurations

The host configurations listed below have been previously tested for use with Dell Storage products, but they are no longer tested by Dell. These configurations are supported at Level 2 if the vendor is actively providing support, or at Level 3 if vendor support is no longer available.

A.1.1 SC Series

A.1.1.1 HBA and CNA HW initiators

Vendor	Operating System	OS Version	HBA Vendor	Model	Last Driver	Last Boot Code	Last FW Adapter	Last Array OS	BfS	Protocol
Apple	OS X	6.8	LSI	7x02EP	2.5.0	N/A	1.2.18.0	6.1.x	L3	FC
Apple	OS X			7x04EP	N/A	N/A	1.3.23.0	6.2.x	L3	FC
Apple	OS X	8.2	LSI	7x04EP	Built-in	N/A	1.3.23.0	6.5.x	L3	FC
Apple	OS X	9.5	LSI	7x04EP	Built-in	N/A	1.3.23.0	6.6.x	L3	FC
Citrix	XenServer	5.6	QLogic	QxE25xx	N/A	N/A	N/A	6.3.x	L3	FC
Citrix	XenServer			QLx406x	Built-in	N/A	N/A	5.5.x	L3	iSCSI
Citrix	XenServer	6.0	Emulex	LPx1200x	8.3.5.77.1p	2.12a6	2.00a4	6.2.x	L1	FC
Citrix	XenServer	6.1	Emulex	LPx1200x	8.3.5.77.1p	2.12a10	2.01a10	6.4.x	L1	FC
Citrix	XenServer	6.2	Emulex	LPx1200x	8.3.7.14	5.13a3	2.01a12	6.6.x	L1	FC
Citrix	XenServer		QLogic	QxE25xx	8.5.0.3.55.6-k	3.27	7.04.0	6.6.x	L1	FC
HP	HP-UX	11i v2	Emulex	LP900x	4.32.03	N/A	3.93a0	5.2.x	L3	FC

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Vendor	Operating System	OS Version	HBA Vendor	Model	Last Driver	Last Boot Code	Last FW Adapter	Last Array OS	BfS	Protocol
HP	HP-UX	11i v2	HP	A6795A	B.11.23.0709	1.37	N/A	6.4.x	L3	FC
HP	Tru-64	5.1A	HP	FCA2684	2.14	N/A	1.90a4	6.3.x	L3	FC
HP	OpenVMS	8.3	HP	FCA2354	N/A	N/A	N/A	6.2.x	L1	FC
IBM	AIX	5.2	Cambex	PC200x	2.5.10.39	N/A	3.3.19	5.5.x	L3	FC
IBM	AIX	5.3	Cambex	PC400x	3.0.0.9	N/A	4.00.29	4.x.y	L3	FC
IBM	AIX		IBM	575x	5.3.90	1.50a4	10x8	6.0.x	L1	FC
IBM	AIX			577D	6.1.6.0	3.10a3	2.00x7	6.2.x	L1	FC
IBM	AIX	6.1	QLogic	QLx405x	Built-in	N/A	N/A	5.3.x	L3	iSCSI
Microsoft	Windows Server	2003	QLogic	QLx405x	2.1.4.26	N/A	3.0.1.53	6.0.x	L3	iSCSI
Microsoft	Windows Server			QLx406x	2.1.4.26	2.09	3.0.1.75	6.6.x	L1	iSCSI
Microsoft	Windows Server	2003 R2	Emulex	LPx1100x	7-2.10a7	5.03a0	2.80a4	5.0.x	L3	FC
Microsoft	Windows Server	2003 R2		LPx1200x	5.2.70.018	5.13a3	2.01a12	6.7.x	L1	FC
Microsoft	Windows Server	2003 R2			7.2.50.007	2.12a6	2.00a4	6.0.x	L1	FC
Microsoft	Windows Server	2003 R2	QLogic	QLA23xx	9.1.7.16	1.43	3.3.25	4.x.y	L1	FC
Microsoft	Windows Server	2003 R2		QxE24xx	9.1.9.27	3.00	5.4.4	6.0.x	L1	FC
Microsoft	Windows Server	2003 R2		QxE25xx	9.1.9.27	3.13	5.4.4	6.4.x	L3	FC
Microsoft	Windows Server	2003 R2		QxE81xx	9.1.7.18	N/A	5.1.3	4.x	L1	FCoE
Microsoft	Windows Server	2008	Emulex	LPx1100x	7.230.016	5.03a0	2.82a4	5.4.x	L3	FC
Microsoft	Windows Server	2008		LPx1200x	7.2.70.014	2.12a6	2.00a4	6.2.x	L1	FC
Microsoft	Windows Server	2008	QLogic	QLA23xx	9.1.7.18	1.54	3.3.25	5.2.x	L1	FC

Vendor	Operating System	OS Version	HBA Vendor	Model	Last Driver	Last Boot Code	Last FW Adapter	Last Array OS	BfS	Protocol
Microsoft	Windows Server	2008		QxE24xx	9.1.9.27	3.00	5.4.4	6.0.x	L1	FC
Microsoft	Windows Server	2008		QxE25xx	9.1.10.26	3.13	5.6.5	6.4.x	L1	FC
Microsoft	Windows Server	2008		QLx405x	2.1.4.19	N/A	3.0.1.53	5.2.x	L3	iSCSI
Microsoft	Windows Server	2008		QLx406x	2.1.5.25	3.0.1.53	3.0.1.53	5.5.x	L2	iSCSI
Microsoft	Windows Server	2012	Emulex	LPx1600x	10.2.370.8	KT8.03a15	10.0.803.25	6.6.x	L1	FC
Microsoft	Windows Server			OCE1010x-i	10.2.421.0	2.0.1.35	4.16.17	6.6.x	L1	iSCSI
Microsoft	Windows Server		QLogic	QxE25xx	9.1.12.21	3.27	7.4.0	6.6.x	L1	FC
Microsoft	Windows Server			QxE266x QLE267x QLE267x	9.1.12.21	3.27	7.4.1	6.6.x	L1	FC
Microsoft	Windows Server			BRCM578xx	7.8.12.0	7.85	7.8.57.0	6.4.x	L1	FCoE
Microsoft	Windows Server			QxE82xx	9.1.11.12	3.23	4.16.17	6.4.x	L1	FCoE
Microsoft	Windows Server				2.1.6.10	2.0.1.35	4.16.17	6.6.x	L1	iSCSI
Microsoft	Windows Server			QLx406x	2.1.4.27	2.09	3.0.1.75	6.6.x	L1	iSCSI
Novell	Netware	6.5-SP6	QLogic	QLx24xx	6.90o	1.24	4.00.26	4.x.y	L3	FC
Novell	Netware	6.5-SP7	QLogic	QLA23xx	6.90o	1.24	3.03.20	5.3.x	L1	FC
Novell	Netware	6.5-SP8	QLogic	QLA23xx	6.90o	1.5	3.03.21	6.4.x	L1	FC
Novell	SUSE Linux Enterprise Server	10	Emulex	LPx1200x	8.2.0.92.1p	5.13a0	2.01a12	6.5.x	L1	FC
Novell			QLogic	QLx405x	5.01.03.03.10.03-d4	N/A	3.0.1.53	6.0.x	L3	iSCSI
Novell				QLx406x	5.03.01.11.10.4-d0	N/A	3.0.1.75	6.5.x	L3	iSCSI
Oracle	Linux Server (UEK)	6.3	QLogic	QLx24xx	8.2.0.10.10.3-k4	1.29	4.4.9	6.3.x	L1	FC

Vendor	Operating System	OS Version	HBA Vendor	Model	Last Driver	Last Boot Code	Last FW Adapter	Last Array OS	BfS	Protocol
Oracle	Linux Server (UEK)	6.4	QLogic	QxE25xx	8.04.00.11.39.o-k	3.20	5.8.0	6.4.x	L1	FC
Oracle	Linux Server (UEK)			QxE266x QLE267x	8.04.00.11.39.o-k	3.20	6.4.0	6.4.x	L3	FC
Oracle	Oracle Virtual Machine	3.2.x	QLogic	QxE25xx	8.05.00.03.39.0-k1	3.20	5.9.0	6.5.x	L3	FC
Oracle				QxE266x QLE267x/QLE267x	8.05.00.03.39.0-k1	3.19	6.6.3	6.5.x	L3	FC
Oracle	Solaris (SPARC)	9	QLogic	QLA23xx	2.19	1.43	3.3.119	6.1.x	L3	FC
Oracle			QLogic	QLx401x	5.00	N/A	3.0.0.04	4.x.y	L3	iSCSI
RedHat	Enterprise Linux	5.0	QLogic	QLA23xx	8.01.07-k7	1.43	3.3.20	4.x.y	L1	FC
RedHat	Enterprise Linux	5.1	QLogic	QLA23xx	8.01.07-k7	1.43	3.3.20	4.x.y	L1	FC
RedHat	Enterprise Linux			QLx406x	5.01.01.04	N/A	3.0.1.24	4.x.y	L3	iSCSI
RedHat	Enterprise Linux	5.2	Emulex	LPx1200x	8.2.0.29	5.03a2	1.10a5	4.x.y	L3	FC
RedHat	Enterprise Linux		QLogic	QLA23xx	8.02.00-k5	1.43	3.3.26	5.0.x	L3	FC
RedHat	Enterprise Linux			QLx406x	5.01.00-k8	N/A	3.0.1.24	5.0.x	L3	iSCSI
RedHat	Enterprise Linux	5.3	QLogic	QxE24xx	8.02.00.06.05.03-k	1.29	4.4.5	4.x.y	L1	FC
RedHat	Enterprise Linux			QLx406x	5.01.03.04	N/A	3.0.1.53	4.x.y	L3	iSCSI
RedHat	Enterprise Linux	5.4	QLogic	QLA23xx	8.03.00.10.05.04-k	1.43	3.3.26	5.2.x	L1	FC
RedHat	Enterprise Linux			QxE24xx	8.03.00.10.05.04-k	1.29	4.4.9	5.4.x	L1	FC
RedHat	Enterprise Linux			QLx406x	8.03.00.10.05.04-k	N/A	3.0.3.26	5.2.x	L3	iSCSI
RedHat	Enterprise Linux	5.5	QLogic	QxE24xx	8.03.01.04.05.05-k	1.29	4.4.9	6.0.x	L1	FC

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Vendor	Operating System	OS Version	HBA Vendor	Model	Last Driver	Last Boot Code	Last FW Adapter	Last Array OS	BfS	Protocol
RedHat	Enterprise Linux			QLx406x	5.01.00.01.05.04-k9	N/A	3.0.1.53	6.0.x	L3	iSCSI
RedHat	Enterprise Linux	5.7	QLogic	QxE24xx	8.03.07.03.05.07-k	3.00	5.3.16	5.5.x	L1	FC
RedHat	Enterprise Linux			QLx406x	5.02.15.01.05.07-k0	N/A	3.0.1.53	5.5.x	L3	iSCSI
RedHat	Enterprise Linux	5.8	QLogic	QxE25xx	8.3.7.9.5.8-k	3.13	5.7.0	6.3.x	L1	FC
RedHat	Enterprise Linux			QLx406x	5.02.15.01.05.07-k0	N/A	3.0.1.53	6.3.x	L3	iSCSI
RedHat	Enterprise Linux	5.9	QLogic	QxE25xx	8.3.7.15.5.9-k	3.20	5.9.0	6.4.x	L1	FC
RedHat	Enterprise Linux			QLx406x	5.02.04.05.05.09-d0	N/A	3.0.1.75	6.4.x	L3	iSCSI
RedHat	Enterprise Linux	5.10	Emulex	LPx1200x	8.2.0.128.3p	5.13a0	2.01a12	6.5.x	L1	FC
RedHat	Enterprise Linux		QLogic	QxE25xx	8.03.07.15.05.09-k	3.24	7.1.0	6.5.x	L1	FC
RedHat	Enterprise Linux			QLx406x	5.02.04.06.05.10-d0	N/A	3.0.1.75	6.5.x	L3	iSCSI
RedHat	Enterprise Linux	5.11	Emulex	LPx1200x	8.2.0.128.3p	5.13a3	2.01A12	6.6.x	L1	FC
RedHat	Enterprise Linux		QLogic	QLx25xx	8.03.07.15.05.09-k	3.27	7.4.0	6.6.x	L1	FC
RedHat	Enterprise Linux			QLx406x	5.02.04.06.05.10-d0	N/A	3.0.1.75	6.6.x	L3	iSCSI
RedHat	Enterprise Linux	6.0	Emulex	LPx1200x	8.3.5.17	5.03a2	1.10a5	6.0.x	L1	FC
RedHat	Enterprise Linux	6.2	Emulex	LPx1200x	8.3.5.68.5p	5.12a9	2.01a10	6.3.x	L1	FC
RedHat	Enterprise Linux		QLogic	QLx406x	5.2.15.5.5.6-c0	N/A	3.0.1.53	6.2.x	L3	iSCSI
RedHat	Enterprise Linux	6.3	Cisco	VIC-1280	1.5.0.1	2.2(1c)	2.2(1c)	6.5.x	L1	FCoE
RedHat	Enterprise Linux		Emulex	LPx1200x	8.3.5.68.5p	5.12a9	2.01a10	6.3.x	L1	FC
RedHat	Enterprise Linux			QLx406x	5.2.0.0.6.3-k4	N/A	3.0.1.53	6.3.x	L3	iSCSI
RedHat	Enterprise Linux	6.4	Emulex	LPx1200x	8.3.5.68.5p	2.12a11	2.01a11	6.4.x	L1	FC

Vendor	Operating System	OS Version	HBA Vendor	Model	Last Driver	Last Boot Code	Last FW Adapter	Last Array OS	BfS	Protocol
RedHat	Enterprise Linux		QLogic	QxE25xx	8.04.00.08.06.4-k	3.20	5.9.0	6.4.x	L1	FC
RedHat	Enterprise Linux			QLx406x	5.02.0.00.06.03-k4	N/A	3.0.1.75	6.4.x	L3	iSCSI
VMware	ESX/ESXi	4.0	Emulex	LP2100x	8.2.0.30.53	N/A	1.00	5.5.x	L1	FC
VMware	ESX/ESXi			LPx1200x	8.2.0.30.53	2.12a6	2.00a4	6.0.x	L1	FC
VMware	ESX/ESXi		QLogic	QxE24xx	8.02.01-k1-vmw43	1.29	4.04.09	5.4.x	L1	FC
VMware	ESX/ESXi			QxE25xx	8.02.01-k1-vmw48	3.00	4.04.09	6.0.x	L1	FC
VMware	ESX/ESXi			QxE81xx	841.k1.28.1-1vmw	2.13	5.01.03	6.0.x	L1	FCoE
VMware	ESX/ESXi			QLx406x	5.01.03.1-9vmw	N/A	3.00.01.24	5.4.x	L3	iSCSI
VMware	ESX/ESXi	4.1	Emulex	LPx1200x	8.2.1.141.55	2.12a11	2.01a11	6.5.x	L1	FC
VMware	ESX/ESXi			LPe12xx	8.2.1.141.55	6.03x1	2.01a10	6.4.x	L1	FC
VMware	ESX/ESXi			LPx1600x	8.2.1.141.55	1.1.21.4	1.1.21.4	6.4.x	L1	FC
VMware	ESX/ESXi			OCx1010x	8.2.1.141.55	N/A	4.2.324.30	6.3.x	L1	FCoE
VMware	ESX/ESXi			OCx1110x	8.2.1.151.65	4.6.142.10	4.6.142.10	6.5.x	L1	FCoE
VMware	ESX/ESXi		QLogic	QxE24xx	841.k1.50.1-1vmw	3.20	5.09.00	6.4.x	L1	FC
VMware	ESX/ESXi			QxE25xx	841.k1.61.1-1vmw	3.20	5.09.00	6.5.x	L1	FC
VMware	ESX/ESXi			QxE266x QLE267x	841.k1.50.1-1vmw	3.24	7.00.01	6.4.x	L1	FC
VMware	ESX/ESXi			BR-M1741-k	3.2.0.0	3.2.1.0	3.2.0.0	6.4.x	L3	FCoE
VMware	ESX/ESXi			QxE81xx	841.k1.61.1-1vmw	3.23	7.00.02	6.5.x	L1	FCoE
VMware	ESX/ESXi			QxE82xx	841.k1.50.1-1vmw	3.23	4.16.17	6.4.x	L1	FCoE

Vendor	Operating System	OS Version	HBA Vendor	Model	Last Driver	Last Boot Code	Last FW Adapter	Last Array OS	BfS	Protocol
VMware	ESX/ESXi			QLx406x	534.4.7.0-1vmw	2.09	3.00.01.75	6.5.x	L3	iSCSI
VMware	ESX/ESXi			QxE82xx	534.4.7.0-1vmw	2.19	4.16.17	6.5.x	L1	iSCSI
VMware	ESX/ESXi	5.0	Emulex	LPx12xx	8.2.4.141.55	6.03x1	2.01a10	6.3.x	L1	FC
VMware	ESX/ESXi			LPx1200x	8.2.4.141.55	2.12a10	2.01a10	6.3.x	L1	FC
VMware	ESX/ESXi			LPx1600x	8.2.4.141.55	1.1.21.4	1.1.21.4	6.3.x	L1	FC
VMware	ESX/ESXi			OCe1010x	8.2.4.141.55	4.2.324.30	5.2.324.30	6.3.x	L1	FCoE
VMware	ESX/ESXi			OCe1110x	8.2.1.141.55	4.4.249.3	4.4.249.3	6.3.x	L1	iSCSI
VMware	ESX/ESXi		QLogic	QxE25xx	934.5.6.0-1vmw	3.13	5.06.05	6.3.x	L1	FC
VMware	ESX/ESXi			QxE266x QLE267x QLE267x	934.5.6.0-1vmw	3.17	6.04.00	6.3.x	L1	FC
VMware	ESX/ESXi			BR-M1741-k	3.2.0.0	3.2.0.0	3.2.0.0	6.3.x	L1	FCoE
VMware	ESX/ESXi			QxE81xx	934.5.6.0-1vmw	3.13	5.7.0	6.3.x	L1	FCoE
VMware	ESX/ESXi			QxE82xx	934.5.6.0-1vmw	3.14	4.12.10	6.3.x	L1	FCoE
VMware	ESX/ESXi				634.5.7.0-1vmw	2.12	4.10.8	6.3.x	L1	iSCSI
VMware	ESX/ESXi			QLx406x	634.5.7.0-1vmw	N/A	3.00.01.53	6.3.X	L3	iSCSI
VMware	ESX/ESXi	5.1	Emulex	LPx12xx	10.2.459.0	6.03X1	2.01A12	6.6.x	L1	FC
VMware	ESX/ESXi			LPx1500x	10.0.727.24	1.1.21.4	10.2.506.19	6.6.x	L1	FC
VMware	ESX/ESXi			LPx1600x	10.0.727.24	1.1.21.4	10.2.506.19	6.6.x	L1	FC
VMware	ESX/ESXi			OCx1110x	8.2.4.146.62	4.6.142.10	4.6.142.10	6.5.x	L1	FCoE
VMware	ESX/ESXi		QLogic	QxE25xx	934.5.45.0	3.24	7.03.00	6.6.x	L1	FC

Vendor	Operating System	OS Version	HBA Vendor	Model	Last Driver	Last Boot Code	Last FW Adapter	Last Array OS	BfS	Protocol
VMware	ESX/ESXi			QxE266x QLE267x	934.5.20.0-1vmw	3.24	7.00.01	6.5.x	L1	FC
VMware	ESX/ESXi			BR-1741-k	3.2.1.0	3.2.1.0	3.2.1.0	6.4.x	L1	FCoE
VMware	ESX/ESXi			BRCM578xx	1.711.10.v50.3	N/A	7.10.18	6.6.x	L3	FCoE
VMware	ESX/ESXi			QxE81xx	934.5.20.0-1vmw	3.23	7.0.2	6.5.x	L1	FCoE
VMware	ESX/ESXi			QxE82xx	934.5.45.0	3.23	4.16.101	6.6.x	L1	FCoE
VMware	ESX/ESXi	5.1			644.5.35	2.19	4.16.101	6.6.x	L1	iSCSI

A.1.1.2 SW initiators

Vendor	iSCSI Initiator/ Operating System	Last Initiator Version	SCOS	iSCSI Boot
Citrix	XenServer 5.x	6.2.x (2.0-871)	6.5.x, 6.6.x	L3
Hewlett-Packard	HP-UX 11i	B.11.31.03	5.4.2, 5.5.2, 5.5.3, 5.5.4, 6.0.1, 6.0.2, 5.5.10, 6.2.1, 6.3.1	L3
IBM	AIX 5.3	5.3.0.50	4.1.x, 4.2.x, 4.5.x, 5.0.x, 5.1.x, 5.2.x, 5.3.x, 5.4.x, 5.5.x, 6.2.x	L3
Microsoft	Windows 2003 R2	5.2.3790.3825	4.2.x, 4.5.x, 5.0.x, 5.1.x 5.2.x, 5.3.x, 5.4.x, 5.5.x, 6.0.x, 6.1.x, 6.2.x, 6.3.x, 6.4.x, 6.5.x, 6.6.x	L3
	Windows 2008	6.1.6002.18005	5.5.x, 6.0.x, 6.1.x, 6.2.x, 6.3.x, 6.4.x	L3
Novell	Netware 6.5	1.06.03	4.1.x, 4.2.x	L3

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Vendor	iSCSI Initiator/ Operating System	Last Initiator Version	SCOS	iSCSI Boot
	SUSE Linux Enterprise Server 10	2.0-868	5.5.x, 6.0.x, 6.1.x, 6.2.x, 6.3.x, 6.4.x, 6.5.x	L3
Oracle	Solaris 10 (SPARC)	20121113-0	7.0.x, 7.1.x	L3
	Solaris 10(x86)	20120627-0	6.3.x, 6.4.x, 6.5.x, 6.6.x, 6.7.x, 7.0.x, 7.1.x	L3
	Linux Server UEK 6.3	6.2.0-872.41	5.5.x, 6.3.x	L3
	Linux Server UEK 6.4	6.2.0-873.-2.0.2	6.4.x	L3
RedHat	RHEL 5	6.2.0.872-16	6.4.x, 6.5.x, 6.6.x, 6.7.x	L3
VMware	ESX 3.5	3.5U5	4.1.x, 4.2.x, 4.5.x, 5.0.x, 5.1.x, 5.2.x, 5.3.x, 5.4.x, 5.5.x, 6.0.x	L3
	vSphere 4.0	In-Box	4.5.x, 5.0.x, 5.1.x, 5.2.x, 5.3.x, 5.4.x, 5.5.x, 6.0.x	L3
	vSphere 4.1/ESXi 4.1	In-Box	5.3.x, 5.4.x, 5.5.x, 6.0.x, 6.1.x, 6.2.x, 6.3.x, 6.4.x, 6.5.x	L3
	vSphere 5.0	In-Box	5.5.x, 6.0.x, 6.1.x, 6.2.x, 6.3.x	L3
	vSphere 5.1	In-Box	5.5.x, 6.3.x, 6.4.x, 6.5.x	L3

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A.1.2 PS Series

A.1.2.1 CNA HW initiators

Vendor	Operating System	OS Version	CNA Vendor	Model	Last Vendor Driver	Last Boot Code	Last PS OS	Array OS	BfS	DCB
Microsoft	Windows Server	2003	Broadcom	BRCM570x	5.2.11.0	N/A	N/A	4.0.x	L1	N/A
			QLogic	BCM577xx	5.2.11.0	N/A	N/A	4.0.x	L1	N/A
				QLx405x	2.1.4.26	N/A	3.0.1.53	3.2.8	L1	N/A
				QLx406x	2.1.4.26	N/A	3.0.1.53	3.2.8	L1	N/A
		2008	Broadcom	BRCM570x	5.2.11.0	N/A	N/A	4.0.x	L1	N/A
			QLogic	BCM577xx	5.2.11.0	N/A	N/A	4.0.x	L1	N/A
				QLx405x	2.1.4.19	N/A	3.0.1.53	3.2.8	L1	N/A
		2012	Broadcom	BCM570x	7.12.0.0	7.12.1	7.12.19	9.0.x	L1	N/A
				BCM577xx	7.12.0.0	7.12.1	7.12.19	9.0.x	L1	N/A
			Emulex	OCE1010x-i	4.2.281.0	2.0.42.0	4.2.324.11	7.1.x	L1	L3
				OCx1410x	10.6.116.0	10.6.133.10	10.6.144.21	9.0.x	L1	L1
			QLogic	QLx406x	2.1.5.37	N/A		7.1.x	L1	N/A
				QLx8262	2.1.5.38	2.0.1.35	2.10.37	9.0.x	L1	L3
				BCM577xx	7.6.51.0	N/A	N/A	6.0.x	L1	N/A
				BCM578xx	7.4.1.0	N/A	N/A	6.0.x	L1	L1
RedHat	Enterprise Linux	5.7	Broadcom	BRCM570x	2.6.23	N/A	N/A	4.3.6	L3	N/A
		5.8	Broadcom	BRCM570x	2.7.4.1f	N/A	N/A	6.0.x	L3	N/A
			QLogic	BRMC577xx	2.7.0.3	N/A	N/A	6.0.x	L3	L3

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Vendor	Operating System	OS Version	CNA Vendor	Model	Last Vendor Driver	Last Boot Code	Last PS OS	Array OS	BfS	DCB
		5.9	Broadcom	BRCM5709	2.7.2.2	N/A	N/A	7.1.x	L1	N/A
			QLogic	BMC578xx	2.7.2.2	N/A	N/A	7.1.x	L1	N/A
		6.1	Emulex	OCE10102-i	4.0.323.0	N/A	N/A	6.0.x	L3	L3
		6.2	Broadcom	BRCM570x	2.1.11	N/A	N/A	6.0.x	L3	N/A
			QLogic	BCM577xx	2.1.11	N/A	N/A	6.0.x	L3	N/A
		6.3	QLogic	QxE82xx	5.03.01.11	N/A	N/A	7.1.x	L1	N/A
VMware	ESX/ESXi	4.0	Broadcom	BRCM570x	2.70.1k.v50.2	N/A	N/A	6.0.x	L3	N/A
			QLogic	BMC577xx	1.8.11t5rc2.8.1-3vmw	N/A	N/A	6.0.x	L3	N/A
			Emulex	OCE10102-i	2.102.525.9	N/A	N/A	5.1.x	L3	L3
				OCE11102-i	2.102.525.9	N/A	N/A	5.1.x	L3	L3
		4.1	Broadcom	BRCM570x	2.70.1k.v50.2	N/A	N/A	6.0.x	L3	N/A

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Vendor	Operating System	OS Version	CNA Vendor	Model	Last Vendor Driver	Last Boot Code	Last PS OS	Array OS	BfS	DCB
VMware			QLogic	BMC577xx	1.8.11t5rc2.8.1-3vmw	N/A	N/A	6.0.x	L3	N/A
			Emulex	OCx1010x-i	2.102.525.9	N/A	N/A	5.1.x	L3	N
				OCx1110x-i	2.102.525.9	N/A	N/A	5.1.x	L3	L3
		5.0	Broadcom	BRCM570x	2.72.10.v50.2	N/A	N/A	6.0.x	L3	N/A
			QLogic	BCM577xx	2.70.1k.v50.2	N/A	N/A	6.0.x	L3	N/A
				BCM578xx	2.70.1k.v50.2	N/A	N/A	6.0.x	L3	L3
			Emulex	OCe1010x	2.102.525.9	N/A	N/A	5.2.x	L3	N/A
				OCe1110x	2.102.525.9	N/A	N/A	5.2.x	L3	L2
		5.1	QLogic	BCM578xx	2.710.30.v50.4	7.10.11	7.10.18	8.0.x	L1	N/A

A.1.2.2   SW initiators

Vendor	iSCSI Initiator/ Operating System	Initiator Version	PS Series OS Version	DCB	BfS
Microsoft	Windows 7	RTM	3.2.8+, 4.x, 5.x, 6.0.x	N/A	L3
Microsoft	Windows Vista	RTM	3.2.8+, 4.x, 5.x, 6.0.x	N/A	L3
Microsoft	Windows 2003	2.08	3.2.8+, 4.x, 5.x, 6.0.x	N/A	L3
Microsoft	Windows 2003 R2	5.2.3790.3825	3.2.8+, 4.x, 5.x, 6.0.x	N/A	L3
Microsoft	Windows 2008	6.1.6002.18005	3.2.8+, 4.x, 5.x, 6.0.x	N/A	L3
Novell	SUSE Linux Enterprise Server 10	2.0-870	3.2.8+, 4.x, 5.x	N/A	L3
Novell	Netware	All Versions			L3
Oracle	Enterprise Linux 5	5.5	4.x, 5.x	N/A	L3

Vendor	iSCSI Initiator/ Operating System	Initiator Version	PS Series OS Version	DCB	BfS
RedHat	RHEL 5	6.2.0.872-13	4.x, 5.x, 6.x	N/A	L3
VMware	ESX 3.5	3.5U5	3.2.8+, 4.x	N/A	L3
VMware	vSphere 4.0	In-Box	4.0.6+, 5.1.x, 5.2.x, 6.0.x	N/A	L3
VMware	vSphere 4.1/ESXi 4.1	In-Box	4.0.6+, 5.1.x, 5.2.x, 6.0.x	N/A	L3
VMware	vSphere 5.0	In-Box	5.1.x, 5.2.x, 6.0.x	N/A	L3
VMware	vSphere 5.1	In-Box	5.1.x, 5.2.x, 6.0.x, 7.0.x, 8.0.x	N/A	L3

A.2 Deprecated switches

The switches listed below have been previously tested for use with Dell Storage products, but they are no longer tested by Dell. These switches are supported at Level 2 if the vendor is actively providing support, or at Level 3 if vendor support is no longer available.

A.2.1 SC Series & PS Series

Vendor	Model	Type	Last FW Validated
Arista	7148SX	Eth	EOS4.5.1
Brocade	5100	FC	6.3.0c
Brocade	B8000/8000e	Conv	7.1.x
Brocade	RX	Eth	2.8.x
Brocade	FGS648P-STK	Eth	05.0.1T7e11
Brocade	FESX648	Eth	04.2.00T73e2
Brocade	FCX648S	Eth	06.0.00T7f12
Cisco	Catalyst 3750E Family	Eth	12.2(35)SE51
Cisco	Catalyst 4900M	Eth	12.2(40)SG2
Cisco	MDS 9124	FC	5.01a
Cisco	MDS 9128	FC	5.0.4
Cisco	M3130G	Eth	12.2(50)SE
Cisco	M3130X	Eth	12.2(50)SE
Cisco	Nexus 50x0	Conv	5.2.x
Dell	PowerConnect 5424	Eth	2.0.0.43
Dell	PowerConnect 5448	Eth	2.0.0.43

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Vendor	Model	Type	Last FW Validated
Dell	PowerConnect 62xx	Eth	3.3.7.x
Dell	PowerConnect 8024	Eth	5.1.x
Dell	PowerConnect 8024F	Eth	5.1.x
Dell	PowerConnect M6220	Eth	5.1.x
Dell	PowerConnect B-Series 8000/8000e	Conv	7.1.x
Dell	PowerConnect B-Series RX	Eth	2.8.x
Dell	PowerConnect J-Series EX4200	Eth	12.0R1.x
Dell	PowerConnect J-Series EX4500	Eth	12.0R9.x
Dell	PowerConnect M8024	Eth	5.1.0.x
Extreme Networks	X450a-48T	Eth	1.0.3.11
HP	3500yl-48G	Eth	K12.122
Juniper	EX4200	Eth	12.0R1.x
Juniper	EX4500	Eth	12.0R9.x
McData	4300	FC	9.9.6.2
McData	Sphereon 4400	FC	09.01.00.50
McData	Sphereon 4500	FC	9.9.0.16
McData	Sphereon 4700	FC	9.01.00.50
McData	Intrepid 6064	FC	9.01.00.50
Nortel/Avaya	ERS5510-48T	Eth	5.0.0.21
QLogic	1400	FC	5.0.1.10.0
QLogic	SANBox 5600	FC	7.4.0.16.0

Vendor	Model	Type	Last FW Validated
QLogic	SANBox 5800	FC	7.4.0.16.0

A.2.2   FS Series

Vendor	Model	Type	Switch FW	Equallogic(FS7xxx)		Compellent(FS8600)	
				FS OS Version	PS OS Version	FS OS Version	SCOS Version
Dell	PowerConnect 62xx	Eth	3.3.x	1.0.402	5.2.1	3.0.x	6.4.x
Dell	PowerConnect 8024/8024F	Eth	5.1.x	3.0.8501	7.0.x	3.0.x	6.1.x

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B   Technical support and additional resources

Dell.com/support is focused on meeting customer needs with proven services and support.

Dell TechCenter is an online technical community where IT professionals have access to numerous resources for Dell EMC software, hardware and services.

Storage Solutions Technical Documents on Dell TechCenter provide expertise that helps to ensure customer success on Dell EMC Storage platforms.

B.1   Related documentation

See the following referenced or recommended resources related to this document.

Dell Storage SC Series and FS Series white papers and videos
Dell Storage SC Series Partner Portal (login required)
Dell Storage PS Series and FS Series configuration guide
Dell Storage PS Series Rapid Configuration Portal
Dell Storage PS Series and FS Series white papers

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