



I/O Compatibility Guide

For ESX Server 3.5 and ESX Server 3i

Last Updated: November 19, 2008

What's New

Changes since the last edition of this guide include:

- Modified support information for HP QLE2460. See ["Hewlett Packard Storage IO Devices,"](#) on page 13.
- Modified support information for HP unm_nic driver and IBM unm_nic driver. See ["Hewlett Packard Networking Devices \(Intel, Broadcom, or NetXen OEM\),"](#) on page 29 and ["IBM Networking Devices \(NetXen OEM\),"](#) on page 32.

Introduction

VMware® ESX Server software delivers high performance I/O for PCI-based SCSI, RAID, Fibre Channel, and Ethernet controllers. To achieve high performance, these devices are accessed directly through device drivers in the ESX Server host, and not through a host operating system, as with VMware Workstation and VMware Server products.

Support for I/O devices listed in this document is specific to device compatibility with the VMware ESX Server versions listed in the corresponding tables. This does not imply a statement of support for adding a device to any certified system. System vendors determine device compatibility with a given system. Please refer to the compatibility list provided by the system vendor before adding a certified device to a certified system.

NOTE IDE RAID and SATA RAID are not supported for the VMFS file system.

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

This document includes the following topics:

- ["Storage I/O Drivers and Devices"](#) on page 2
- ["Network I/O Drivers and Devices"](#) on page 25

Linux Driver Compatibility

While ESX Server software itself is not derived from Linux, it includes a Linux compatibility module to allow Linux storage and networking drivers to be adapted and recompiled for ESX Server hosts. This enables VMware and VMware partners to more easily support a wide range of high-performance devices and eases the driver porting effort on the storage and networking device vendors. VMware or VMware partners typically modifies these drivers for one or more of the following reasons:

- To make the driver compatible with the ESX Server host
- To tune the driver for performance
- To add I/O resource governing or QoS support to the driver
- To fix generic bugs in the driver

It is not possible to directly load existing, precompiled, Linux device driver binaries onto an ESX Server host.

Storage I/O Drivers and Devices

This section discusses storage I/O devices in the following sections:

- [“Storage I/O Driver Versions”](#) on page 2
- [“Storage I/O Device and Model Information”](#) on page 3
- [“Supported SAS/SATA Dual Controllers”](#) on page 25

Storage I/O Driver Versions

The following table summarizes the driver versions shipped with the current release of ESX Server software:.

Table 1. Driver Version

Class	Vendor	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
		Driver	Version	Driver	Version	Driver	Version
SCSI	Adaptec	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
	Adaptec	aic79xx	2.0.12	aic79xx	2.0.12	aic79xx	2.0.12
	Adaptec	adp94xx	1.0.7-11	adp94xx	1.0.7-11	adp94xx	1.0.7-11
	LSI Logic						
	LSI Logic	mptscsi_2xx ¹	2.06.48	mptscsi_2xx ¹	2.06.48	mptscsi_2xx ¹	2.06.48
iSCSI	QLogic						
	QLogic	qla4022	3.30	qla4022	3.30	qla4022	3.30

Table 1. Driver Version (Continued)

Class	Vendor	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
		Driver	Version	Driver	Version	Driver	Version
RAID	Adaptec						
	Adaptec	aacraid_esx30 ²	1.1.5-2415	aacraid_esx30 ²	1.1.5-2415	aacraid_esx30 ²	1.1.5-2415
	Adaptec	ips	7.10.17	ips	7.10.17	ips	7.10.17
	HP	cciss	2.4.66	cciss	2.4.66	cciss	2.4.66
	LSI Logic	megaraid2 ³	2.10.7	megaraid2 ³	2.10.7	megaraid2 ³	2.10.7
	LSI Logic	megaraid_sas ³	3.0.9	megaraid_sas ³	3.0.9	megaraid_sas ³	3.0.9
	Mylex	dac960	2.4.11	dac960	2.4.11	dac960	2.4.11
Fibre Channel	Emulex						
	Emulex	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
	QLogic						
	QLogic	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
¹ You cannot simultaneously run devices using the mptscsi driver and ones using the mptscsi_2xx driver.							
² You cannot simultaneously run devices using the aacraid driver and ones using the aacraid_esx30 driver.							
³ You cannot simultaneously run devices using the megaraid2 driver and ones using the megaraid_sas driver.							

Storage I/O Device and Model Information

The detailed lists show actual vendor devices that are either physically tested or are similar to the devices tested by VMware or VMware partners. VMware provides support only for the devices that are listed in this document

- [“Adaptec Storage IO Devices”](#) on page 4
- [“Broadcom Storage IO Devices”](#) on page 7
- [“Dell Storage IO Devices”](#) on page 8
- [“EMC Storage IO Devices,”](#) on page 9
- [“Emulex Storage IO Devices”](#) on page 10
- [“FSC Storage IO Devices”](#) on page 12
- [“Hewlett Packard Storage IO Devices”](#) on page 13
- [“Hitachi Data Storage IO Devices”](#) on page 15
- [“IBM Storage IO Devices”](#) on page 15

- [“Intel Storage IO Devices”](#) on page 19
- [“iSCSI Software Initiator”](#) on page 19
- [“LSILogic Storage IO Devices”](#) on page 19
- [“Mylex Storage IO Devices,”](#) on page 21
- [“Sun Storage IO Devices”](#) on page 21
- [“QLogic Storage IO Devices - Fibre Channel HBA”](#) on page 22
- [“QLogic Storage Devices - iSCSI,”](#) on page 24
- [“Brocade Storage IO Devices - Fibre Channel HBA,”](#) on page 25

Table 2. Adaptec Storage IO Devices

Device Model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
1480A Ultra SCSI	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
SCSI RAID 2200S PCI SCSI 2ch	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415
2902/04/10/15/20/30C	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
29160 Ultra160 SCSI	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
29160B Ultra160 SCSI	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
29160C Ultra160 SCSI	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
29160N Ultra160 SCSI	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
2930 Ultra SCSI	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
2930 Ultra2 SCSI	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
2930C Ultra SCSI	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
2930CU SCSI adapter	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
2940 Pro Ultra	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
2940 SCSI	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
2940 Ultra SCSI	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
2940 Ultra2 SCSI ¹	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
2940/CN Ultra SCSI	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
2940/DUAL Ultra SCSI	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
2940A Ultra SCSI	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
2940A/CN Ultra SCSI	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9

Table 2. Adaptec Storage IO Devices (Continued)

Device Model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
2940B Ultra2 SCSI	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
2944 SCSI	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
2944 Ultra SCSI	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
2950 Ultra2 SCSI	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
3230S	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415
3240S	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415
3940 SCSI	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
3940 Ultra SCSI	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
3940A Ultra SCSI	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
3944 SCSI	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
3944 Ultra SCSI	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
3944A Ultra SCSI	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
3950B Ultra2 SCSI	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
3950D Ultra2 SCSI	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
3960D Ultra160 SCSI	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
398X SCSI RAID	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
398X Ultra SCSI	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
4944 SCSI adapter	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
4944 Ultra SCSI	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
5400S	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415
AAA-131 Ultra2 RAID	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
Adaptec 2445	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415
Adaptec 5085	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415
Adaptec 5405	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415
Adaptec 5445	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415
Adaptec 5805	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415
Adaptec 51245	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415
Adaptec 51645	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415
Adaptec 52445	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415
Adaptec RAID 2045	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415

Table 2. Adaptec Storage IO Devices (Continued)

Device Model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
Adaptec RAID 2405	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415
Adaptec RAID 3085	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415
Adaptec RAID 3405	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415
Adaptec RAID 3805	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415
Adaptec RAID 31205	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415
Adaptec RAID 31605	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415
AIC-7810 RAID memory	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
AIC-7815 RAID memory	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
AIC-7850 SCSI adapter	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
AIC-7855 SCSI adapter	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
AIC-7859 SCSI adapter	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
AIC-7860 Ultra SCSI	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
AIC-7870 SCSI adapter	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
AIC-7880 Ultra SCSI	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
AIC-7890/91 Ultra2 SCSI	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
AIC-7892 Ultra160 SCSI	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
AIC-7895 Ultra2 SCSI	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
AIC-7896/97 Ultra2 SCSI	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
AIC-7899 Ultra160 SCSI	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
AIC-7901W Ultra320 SCSI	aic79xx	2.0.12	aic79xx	2.0.12	aic79xx	2.0.12
29160 Ultra160 SCSI	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
29320ALP-R Ultra320 SCSI	aic79xx	2.0.12	aic79xx	2.0.12	aic79xx	2.0.12
29320A Ultra320 SCSI	aic79xx	2.0.12	aic79xx	2.0.12	aic79xx	2.0.12
29320LP Ultra320 SCSI	aic79xx	2.0.12	aic79xx	2.0.12	aic79xx	2.0.12
AHA29320LP_IROC	aic79xx	2.0.12	aic79xx	2.0.12	aic79xx	2.0.12
39320 Ultra320 SCSI	aic79xx	2.0.12	aic79xx	2.0.12	aic79xx	2.0.12
39320A Ultra320 SCSI	aic79xx	2.0.12	aic79xx	2.0.12	aic79xx	2.0.12
39320B Ultra320 SCSI	aic79xx	2.0.12	aic79xx	2.0.12	aic79xx	2.0.12
39320D Ultra320 SCSI	aic79xx	2.0.12	aic79xx	2.0.12	aic79xx	2.0.12
39320DB Ultra320 SCSI	aic79xx	2.0.12	aic79xx	2.0.12	aic79xx	2.0.12

Table 2. Adaptec Storage IO Devices (Continued)

Device Model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
AIC-7901A_IROC	aic79xx	2.0.12	aic79xx	2.0.12	aic79xx	2.0.12
AIC-7901B Ultra320 SCSI	aic79xx	2.0.12	aic79xx	2.0.12	aic79xx	2.0.12
AIC-7902 Ultra320 SCSI	aic79xx	2.0.12	aic79xx	2.0.12	aic79xx	2.0.12
AIC-7902	aic79xx	2.0.12	aic79xx	2.0.12	aic79xx	2.0.12
AIC-7902 (Dual Ultra320 SCSI)	aic79xx	2.0.12	aic79xx	2.0.12	aic79xx	2.0.12
AIC-7902_B_IROC	aic79xx	2.0.12	aic79xx	2.0.12	aic79xx	2.0.12
AIC-7902_IROC	aic79xx	2.0.12	aic79xx	2.0.12	aic79xx	2.0.12
AIC-7902W Ultra320 SCSI	aic79xx	2.0.12	aic79xx	2.0.12	aic79xx	2.0.12
AIC-9410W SAS	adp94xx	1.0.7-11	adp94xx	1.0.7-11	adp94xx	1.0.7-11
ASC-29320LPE	aic79xx	2.0.12	aic79xx	2.0.12	aic79xx	2.0.12
19160B Ultra160 SCSI	aic7xxx	6.3.9	aic7xxx	6.3.9	aic7xxx	6.3.9
ICP 5045BL	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415
ICP 5085BL	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415
ICP 5125BR	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415
ICP 5165BR	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415
ICP 5805BL	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415
SCSI RAID 2120S	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415

¹ Please see VMware knowledge base article 2166 (http://www.vmware.com/support/kb/enduser/std_adp.php?p_faqid=2166) for information on AHA 2940 Ultra2 SCSI performance issues.

Table 3. Broadcom Storage IO Devices

Device Model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
Broadcom HT1000 ^{1, 2}	sata_svw	1.07	sata_svw	1.07	sata_svw	1.07

¹ Storing VMFS datastores on drives connected to these controllers is not supported.

² Requires Update 3 or higher of the ESX Server version listed in the corresponding column.

Table 4. Dell Storage IO Devices

Device Model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
AIC-7899P U160/m (PowerEdge 1750)	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48
AIC-7899P U160/m (PowerEdge 2600)	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48
Dell 2342M	qla2300_707_vmw	7.08vm32	qla2300_707_vmw	7.08vm32	qla2300_707_vmw	7.08vm32
Dell 2362M	qla2300_707_vmw	7.08vm32	qla2300_707_vmw	7.08vm32	qla2300_707_vmw	7.08vm32
LP10000	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LP1050EX	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LP9802	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LP982	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LPe1105-M	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LPe1150	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LPe12000 ^{3, 4, 5}	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LPe12002 ^{3, 4, 5}	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
PERC 3/Di	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415
PERC 3/Si	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415
PERC 320/DC	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415
PERC 4/DC ¹	megaraid2	2.10.7	megaraid2	2.10.7	megaraid2	2.10.7
PERC 4/im	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48
PERC 4/SC	megaraid2	2.10.7	megaraid2	2.10.7	megaraid2	2.10.7
PERC 4e/DC	megaraid2	2.10.7	megaraid2	2.10.7	megaraid2	2.10.7
PERC 4e/Di ²	megaraid2	2.10.7	megaraid2	2.10.7	megaraid2	2.10.7
PERC 4e/Si	megaraid2	2.10.7	megaraid2	2.10.7	megaraid2	2.10.7
PERC 5/E	megaraid_sas	3.0.9	megaraid_sas	3.0.9	megaraid_sas	3.0.9
PERC 5/i	megaraid_sas	3.0.9	megaraid_sas	3.0.9	megaraid_sas	3.0.9
PERC 6/E	megaraid_sas	3.0.9	megaraid_sas	3.0.9	megaraid_sas	3.0.9
PERC 6/i	megaraid_sas	3.0.9	megaraid_sas	3.0.9	megaraid_sas	3.0.9
QLA2340	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLA2342	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLE2360 (2Gbs)	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLE2362 (2Gbs)	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32

Table 4. Dell Storage IO Devices (Continued)

Device Model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
QLE2460	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLE2462	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLE2560 ⁵	qla2300_707_vmw	7.08-vm33	qla2300_707_vmw	7.08-vm33	qla2300_707_vmw	7.08-vm33
QLE2562 ⁵	qla2300_707_vmw	7.08-vm33	qla2300_707_vmw	7.08-vm33	qla2300_707_vmw	7.08-vm33
QME2462	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QME2472	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
SAS 5/E	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48
SAS 5/I	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48
SAS 5/iR	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48
SAS 6/iR	mptscsi_2x	2.05.48	mptscsi_2x	2.05.48	mptscsi_2x	2.05.48
PERC = PowerEdge Expandable RAID Controller						
¹ Firmware upgrade 352B is not supported. For further details, refer to KB 5966817 at http://kb.vmware.com/kb/5966817 .						
² Firmware upgrade 522A is not supported. For further details, refer to KB 5966817 at http://kb.vmware.com/kb/5966817 .						
³ Requires ESX Server 3.5 Update 1 (or higher).						
⁴ Supported at 4 GB speed with ESX Server 3.5 Update 1.						
⁵ Supported at 8 GB speed with ESX Server 3.5 Update 2 or higher..						

Table 5. EMC Storage IO Devices

Device Model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
LP9002-E	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LP9002L-E	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LP9802-E	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LP1050-E	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LP1050DC-E	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LP1050Ex-E	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LP1150-E	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LP10000-E	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LP10000 ExDC-E	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LP10000DC-E	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13

Table 5. EMC Storage IO Devices (Continued)

Device Model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
LP11000-E	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LP11002-E	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LPe1150-E	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LPe11000-E	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LPe11002-E	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LPe12000-E ^{1, 2, 3}	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LPe12002-E ^{1, 2, 3}	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
QLA2340-E-SP	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLA2342-E-SP	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLA2460-E-SP	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLA2462-E-SP	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLE2360-E-SP	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLE2362-E-SP	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLE2460-E-SP	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLE2462-E-SP	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLE2560-E-SP ³	qla2300_707_vmw	7.08-vm33	qla2300_707_vmw	7.08-vm33	qla2300_707_vmw	7.08-vm33
QLE2562-E-SP ³	qla2300_707_vmw	7.08-vm33	qla2300_707_vmw	7.08-vm33	qla2300_707_vmw	7.08-vm33
¹ Requires ESX Server 3.5 Update 1 (or higher).						
² Supported at 4 GB speed with ESX Server 3.5 Update 1.						
³ Supported at 8 GB speed with ESX Server 3.5 Update 2 or higher.						

Table 6. Emulex Storage IO Devices

Device Model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
LP110002DC	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LP10000	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LP10000 ExDC	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LP10000DC	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LP10000DC-M2	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13

Table 6. Emulex Storage IO Devices (Continued)

Device Model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
LP1005DC	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LP1050	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LP1050DC	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LP1050Ex	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LP1050-F2	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LP11000	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LP11002	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LP11002-M4	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LP1150	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LP1150-F4	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LP21000-C CNA ^{3, 4, 5, 6, 7, 8, 9, 10, 11}	lpfc_740	elx_7.4.0.31				
LP21000-M CNA ^{3, 4, 5, 6, 7, 8, 9, 10, 11}	lpfc_740	elx_7.4.0.31				
LP21002-C CNA ^{3, 4, 5, 6, 7, 8, 9, 10, 11}	lpfc_740	elx_7.4.0.31				
LP21002-M CNA ^{3, 4, 5, 6, 7, 8, 9, 10, 11}	lpfc_740	elx_7.4.0.31				
LP9000/LP9002L	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LP952L	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LP9802	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LP9802DC	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LP982	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LPe1050Ex	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LPe1105	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LPe1105-DL	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LPe1150	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LPe11000	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LPe11002	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LPe11004	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LPe1250 ^{2, 11}	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LPe12000 ^{1, 2, 11}	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LPe12002 ^{1, 2, 11}	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
X1085A-R5	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13

Table 6. Emulex Storage IO Devices (Continued)

Device Model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
X1086A-R6	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
X1087A-R6	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
Emulex HBAs directly connected to an AX100 should be using firmware version 1.91a1 and BootBIOS version 1.70a3 for Boot-From-SAN. VMware supports only direct-connect topology for the AX100, so this does not apply to other arrays.						
¹ Supported at 4 GB speed with ESX Server 3.5 Update 1.						
² Supported at 8 GB speed with ESX Server 3.5 Update 2 or higher.						
³ Please refer to the section "Storage Arrays supported with FCoE CNAs" in the SAN Hardware Compatibility Guide for storage arrays supported with this adapter.						
⁴ VMware tested this adapter in a configuration with the Cisco Nexus 5000 providing FCoE bridging functions and Cisco MDS 9000 switches providing Fibre Channel connectivity. Please work with your switch vendor for other supported network topologies, connectivity options and minimum supported switch firmware versions.						
⁵ Software iSCSI is not supported with this adapter.						
⁶ NetQueue is not supported with this adapter.						
⁷ NPIV is not supported with this adapter.						
⁸ Wake on LAN is not supported with this adapter.						
⁹ NIC Teaming with "failover detection" set to "Beacon" is not supported.						
¹⁰ Requires driver CD from: http://www.vmware.com/download/vi/drivers_tools.html						
¹¹ Requires Update 2 or higher of the ESX Server version listed in the corresponding column.						

Table 7. FSC Storage IO Devices

Device Model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
BX600-FC22Q	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
BX600-FC42E	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
RAID 0/1 SAS based on LSI MegaRAID 4P	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48
RAID 0/1 SAS based on LSI MegaRAID 8P	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48
RAID 5/6 SAS based on LSI MegaRAID	megaraid_sas	3.0.9	megaraid_sas	3.0.9	megaraid_sas	3.0.9

Table 8. Hewlett Packard Storage IO Devices

Device Model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
300874-B21 Qlogic 2GB FC Mezzanine HBA for p-Class BladeSystem	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
354054-B21 Qlogic 2GB FC Mezzanine HBA for p-Class BladeSystem	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
361426-B21 Qlogic 2GB FC Mezzanine HBA for p-Class BladeSystem	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
381881-B21 Qlogic 2GB FC Mezzanine HBA for p-Class BladeSystem	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
394588-B21	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
394797-B21	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
403621-B21 (LPe1105-HP) 4Gb/s FC Mezzanine HBA for BladeSystem c-Class Servers	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
A7387A	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
A7388A	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
A7560A	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
FC1142SR	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
FC1143	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
FC1242SR	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
FC1243	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
FC2142SR	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
FC2143	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
FC2242SR	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
FC2243	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
FCA2101	lpfc_740	lpfc_740	lpfc_740	lpfc_740	lpfc_740	lpfc_740
FCA2210	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
FCA2214	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32

Table 8. Hewlett Packard Storage IO Devices (Continued)

Device Model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
FCA2214DC	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
FCA2404	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
FCA2404DC	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
FCA2408	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
HP 81E/82E PCI-E FC HBA ^{2,3,4}	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
HP 81Q/82Q PCI-E FC HBA ⁴	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
HP NetRAID-4M	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415
HP SC44Ge Host Bus Adapter	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48
QLE2460	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
	qla2300_707_vmw	7.08-vm33.1 ⁴	qla2300_707_vmw	7.08-vm33.1 ⁴	qla2300_707_vmw	7.08-vm33.1 ⁴
QMH4062	qla4022	3.30	qla4022	3.30	qla4022	3.30
QMH2462 4Gb FC Mezzanine HBA for c-Class Blade System	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
SC08GE ⁴	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48
Smart Array 5300	cciss	2.4.66	cciss	2.4.66	cciss	2.4.66
Smart Array 5312	cciss	2.4.66	cciss	2.4.66	cciss	2.4.66
Smart Array 532	cciss	2.4.66	cciss	2.4.66	cciss	2.4.66
Smart Array 5i	cciss	2.4.66	cciss	2.4.66	cciss	2.4.66
Smart Array 6400	cciss	2.4.66	cciss	2.4.66	cciss	2.4.66
Smart Array 6400 EM	cciss	2.4.66	cciss	2.4.66	cciss	2.4.66
Smart Array 6402	cciss	2.4.66	cciss	2.4.66	cciss	2.4.66
Smart Array 6404	cciss	2.4.66	cciss	2.4.66	cciss	2.4.66
Smart Array 641	cciss	2.4.66	cciss	2.4.66	cciss	2.4.66
Smart Array 642	cciss	2.4.66	cciss	2.4.66	cciss	2.4.66
Smart Array 6i	cciss	2.4.66	cciss	2.4.66	cciss	2.4.66
Smart Array E200	cciss	2.4.66	cciss	2.4.66	cciss	2.4.66
Smart Array E200i	cciss	2.4.66	cciss	2.4.66	cciss	2.4.66

Table 8. Hewlett Packard Storage IO Devices (Continued)

Device Model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
Smart Array E500	cciss	2.4.66	cciss	2.4.66	cciss	2.4.66
Smart Array P400	cciss	2.4.66	cciss	2.4.66	cciss	2.4.66
Smart Array P400i	cciss	2.4.66	cciss	2.4.66	cciss	2.4.66
Smart Array P600	cciss	2.4.66	cciss	2.4.66	cciss	2.4.66
Smart Array P800	cciss	2.4.66	cciss	2.4.66	cciss	2.4.66
¹ A certified and supported driver is available at: http://www.vmware.com/support/vi3/doc/drivercd/esx301-cciss-2.4.66.html						
² Supported at 4 GB speed with ESX Server 3.5 Update 1.						
³ Supported at 8 GB speed with ESX Server 3.5 Update 2 or higher.						
⁴ Requires Update 2 or higher of the ESX Server version listed in the corresponding column.						

Table 9. Hitachi Data Storage IO Devices

Device Model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
QLA2340-HDS-SP	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLA2342-HDS-SP	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLA2460-HDS-SP	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLA2462-HDS-SP	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLE2460-HDS-SP	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLE2462-HDS-SP	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32

Table 10. IBM Storage IO Devices

Device Model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
Dual-port U320 SCSI Controller	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48
Emulex 4Gb Fibre Channel Expansion Card (CFFv) for IBM BladeCenter	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13

Table 10. IBM Storage IO Devices (Continued)

Device Model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
Emulex 4GB FC Single-Port PCI-X HBA for IBM System x	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
Emulex 4GB FC Dual-Port PCI-X HBA for IBM System x	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
Emulex 4GB FC Single-Port PCI-E HBA for IBM System x	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
Emulex 4GB FC Dual-Port PCI-E HBA for IBM System x	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
Emulex 4Gb SFF Fibre Channel Expansion Card for IBM BladeCenter	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
Emulex 8Gb FC Single-port HBA for System x ^{3, 4, 5}	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
Emulex 8Gb FC Dual-port HBA for System x ^{3, 4, 5}	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
IBM DS4000 4Gbps PCI-X FC HBA, Single Port	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
IBM DS4000 4Gbps PCI-X FC HBA, Dual Port	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
IBM 4Gb FC HBA, Single Port, PCIe	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
IBM 4Gb FC HBA, Dual Port, PCIe	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
IBM iSCSI Dual Port HBA			qla4022	3.30	qla4022	3.30
IBM iSCSI Single Port HBA			qla4022	3.30	qla4022	3.30
IBM SAS HBA Controller	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48
LP1005DC	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
LP1105-BU	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
Qlogic 4Gb SFF FC Exp Card for BladeCenter	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
Qlogic 4Gb Std FC Exp Card for BladeCenter	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
Qlogic 2422M PCI-Express x4 ASIC for 4Gb 2-Port Fibre Channel	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
Qlogic 2432M PCI-Express x4 ASIC for 4Gb 2-Port Fibre Channel	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32

Table 10. IBM Storage IO Devices (Continued)

Device Model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
QLA2460 QLogic 4Gb FC Single Port PCI-X for IBM System x	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLA2462 QLogic 4Gb FC Dual Port PCI-X for IBM System x	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLE2460 QLogic 4Gb FC Single Port PCIe for IBM System x	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLE2462 QLogic 4GB FC Dual Port PCIe for IBM System x	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLE2560 QLogic Single-port 8Gbps FC PCIe 2.0 for IBM System x ⁴	qla2300_707_vmw	7.08-vm33	qla2300_707_vmw	7.08-vm33	qla2300_707_vmw	7.08-vm33
QLE2562 QLogic Dual-port 8Gbps FC PCIe 2.0 for IBM System x ⁴	qla2300_707_vmw	7.08-vm33	qla2300_707_vmw	7.08-vm33	qla2300_707_vmw	7.08-vm33
QLogic 4Gb Fibre Channel Expansion Card (CFFv) for IBM BladeCenter™	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLogic Ethernet and 4Gb Fibre Channel Expansion Card (CFFh) for IBM BladeCenter™	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
	tg3	3.43b	tg3	3.43b	tg3	3.43b
QMC2462 QLogic 4Fb FC Dual Port PCI-X, BladeCenter Expansion Card, Standard Form Factor	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QMC2462s QLogic 4Gb FC Dual Port PCI-X, BladeCenter Expansion Card, Small Form Factor	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QMC4052	qla4022	3.30	qla4022	3.30	qla4022	3.30
QMC4052R	qla4022	3.30	qla4022	3.30	qla4022	3.30
QMI2472 QLogic 4Gb FC Dual Port BladeCenter Expansion Card	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QMI3472 QLogic 4Gb FC Dual Port BladeCenter Expansion Card	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
MegaRAID 8480	megaraid_sas	3.0.9	megaraid_sas	3.0.9	megaraid_sas	3.0.9
SAS Expansion Card (CFFv) for IBM BladeCenter	mptscsi_2xx	2.6.48	mptscsi_2xx	2.6.48	mptscsi_2xx	2.6.48
ServeRAID 4-Lx Ultra160 SCSI Controller	ips	7.10.17				

Table 10. IBM Storage IO Devices (Continued)

Device Model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
ServeRAID 4-Mx Ultra160 SCSI Controller	ips	7.10.17				
ServeRAID 5i Controller	ips	7.10.17				
ServeRAID-6i Controller	ips	7.10.17				
ServeRAID-6i+ Controller	ips	7.10.17				
ServeRAID-6M Controller (128MB Cache)	ips	7.10.17				
ServeRAID-6M Controller (256MB Cache)	ips	7.10.17				
ServeRAID-7k Controller	ips	7.10.17				
ServeRAID-8i Controller	aacraid_esx30	1.1.5-2415				
IBM ServeRAID 8s	aacraid_esx30	1.1.5-2415				
IBM ServeRAID 8s with Battery	aacraid_esx30	1.1.5-2415				
ServeRAID-MR10k SAS/SATA Controller	megaraid_sas	3.0.9	megaraid_sas	3.0.9	megaraid_sas	3.0.9
ServeRAID-MR10M SAS/SATA Controller	megaraid_sas	3.0.9	megaraid_sas	3.0.9	megaraid_sas	3.0.9
IBM ServeRAID 8k SAS Controller	aacraid_esx30	1.1.5-2415				
IBM ServeRAID 8k-l SAS Controller	aacraid_esx30	1.1.5-2415				
Single Channel Ultra320 SCSI Controller ²	aic79xx	2.0.12	aic79xx	2.0.12	aic79xx	2.0.12
IBM Ultra 320 SCSI Controller 2	aic79xx	2.0.12	aic79xx	2.0.12	aic79xx	2.0.12
IBM SMB 2-Gbps Fibre Channel HBA	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
IBM iSCSI Server Adapter						
IBM iSCSI Server SX Adapter ¹	qla4022	3.30	qla4022	3.30	qla4022	3.30
IBM iSCSI Server TX Adapter ¹	qla4022	3.30	qla4022	3.30	qla4022	3.30
IBM iSCSI Single Port HBA	qla4022	3.30				
IBM iSCSI Dual Port HBA	qla4022	3.30				
¹ Ethernet is not supported.						
² Support for PCI-X only.						
³ Supported at 4 GB speed with ESX Server 3.5 Update 1.						

Table 10. IBM Storage IO Devices (Continued)

Device Model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
⁴ Supported at 8 GB speed with ESX Server 3.5 Update 2 or higher.						
⁵ Requires Update 2 or higher of the ESX Server version listed in the corresponding column.						

Table 11. Intel Storage IO Devices

Device Model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
Intel ESAA SRCAS144E	megaraid_sas	00.00.02.00	megaraid_sas	00.00.02.00	megaraid_sas	00.00.02.00
Intel ESAA SRCAS18E	megaraid_sas	00.00.02.00	megaraid_sas	00.00.02.00	megaraid_sas	00.00.02.00
Intel ESAA SRCAS1JV	megaraid_sas	3.0.9	megaraid_sas	3.0.9	megaraid_sas	3.0.9
Intel ESAA SRCAS1RB	megaraid_sas	3.0.9	megaraid_sas	3.0.9	megaraid_sas	3.0.9
Intel ICH-7 SATA controller ^{1,2}	piix	0.42	piix	0.42	piix	0.42
¹ Storing VMFS datastores on drives connected to these controllers is not supported.						
² Requires Update 3 or higher of the ESX Server version listed in the corresponding column.						

Table 12. iSCSI Software Initiator

Device Model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
Software iSCSI ¹	iscsimod	3.6.3	iscsimod	3.6.3	iscsimod	3.6.3
¹ Supported on Intel E1000 and Broadcom running on a gigabit link and other certified 10Gb NICs running on a 10 gigabit link only.						

Table 13. LSILogic Storage IO Devices

Device Model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
53C1020 PCI-X to Ultra320 SCSI	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48
53c1030 PCI-X Fusion-MPT Dual Ultra320 SCSI	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48
53c1035 PCI-X Fusion-MPT Dual Ultra320 SCSI	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48
AMI MEGARAID	megaraid2	2.10.7	megaraid2	2.10.7	megaraid2	2.10.7

Table 13. LSILogic Storage IO Devices (Continued)

Device Model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
AMI MEGARAID2	megaraid2	2.10.7	megaraid2	2.10.7	megaraid2	2.10.7
AMI MEGARAID3	megaraid2	2.10.7	megaraid2	2.10.7	megaraid2	2.10.7
DISCOVERY	megaraid2	2.10.7	megaraid2	2.10.7	megaraid2	2.10.7
LSI MegaRAID 320-2	megaraid2	2.10.7	megaraid2	2.10.7	megaraid2	2.10.7
LSI MegaRAID 320-2x	megaraid2	2.10.7	megaraid2	2.10.7	megaraid2	2.10.7
LSI MegaRAID 320-4x	megaraid2	2.10.7	megaraid2	2.10.7	megaraid2	2.10.7
LSI MegaRAID 320-E ROMB	megaraid2	2.10.7	megaraid2	2.10.7	megaraid2	2.10.7
LSI MegaRAID 8480	megaraid_sas	3.0.9	megaraid_sas	3.0.9	megaraid_sas	3.0.9
LSI MegaRAID 8408E	megaraid_sas	3.0.9	megaraid_sas	3.0.9	megaraid_sas	3.0.9
LSI MegaRAID 8344ELP	megaraid_sas	3.0.9	megaraid_sas	3.0.9	megaraid_sas	3.0.9
LSI MEGARAID3	megaraid2	2.10.7	megaraid2	2.10.7	megaraid2	2.10.7
LSI MegaRAID SAS1064/68R	megaraid_sas	3.0.9	megaraid_sas	3.0.9	megaraid_sas	3.0.9
LSI MegaRAID SAS 8308ELP	megaraid_sas	3.0.9	megaraid_sas	3.0.9	megaraid_sas	3.0.9
LSI MegaRAID SAS 8880EM2 ¹	megaraid_sas	3.0.9	megaraid_sas	3.0.9	megaraid_sas	3.0.9
LSI U320 SCSI Controller	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48
LSI1064	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48
LSI1064E	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48
LSI1068	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48
LSI1068E	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48
LSI1078 ²	megaraid_sas	3.15	megaraid_sas	3.15	megaraid_sas	3.15
LSI1078 MegaRAID SAS 8708ELP ¹	megaraid_sas	3.0.9	megaraid_sas	3.0.9	megaraid_sas	3.0.9
LSI53C1030	megaraid2	2.10.7	megaraid2	2.10.7	megaraid2	2.10.7
LSI53C1030 (MegaRAID)	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48
LSISAS3041E	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48
LSISAS3041x	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48
LSISAS3080x	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48
LSISASS3442E	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48
MegaRAID SCSI 320-1(Elite 1700)	megaraid2	2.10.7	megaraid2	2.10.7	megaraid2	2.10.7
MegaRAID SCSI 320-2X (Elite 1700 Series518)	megaraid2	2.10.7	megaraid2	2.10.7	megaraid2	2.10.7

Table 13. LSILogic Storage IO Devices (Continued)

Device Model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
SAS3442x	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48
SAS3444E	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48

¹ Requires firmware: 1.10.02-0197. This requires a driver CD whose ISO is available at:
<http://www.vmware.com/support/vi3/doc/drivercd/esx301-cciss-2.4.66.html>

² Requires Update 2 or higher of the ESX Server version listed in the corresponding column.

Table 14. Mylex Storage IO Devices

Device Model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
AcceleRAID 352	DAC960	2.4.11	DAC960	2.4.11	DAC960	2.4.11

Table 15. Sun Storage IO Devices

Device Model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
SG-XPCIE1FC-EM8-Z ^{4,5,6}	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
SG-XPCIE2FC-EM8-Z ^{4,5,6}	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
SG-XPCIE1FC-QF8-Z ⁶	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
SG-XPCIE2FC-QF8-Z ⁶	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
SG-XPCIE2FCGBE-E-Z	lpfcdd_732 (default)	7.3.2_vmw4	lpfcdd_732 (default)	7.3.2_vmw4	lpfcdd_732 (default)	7.3.2_vmw4
SG-XPCIE2FCGBE-Q-Z	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
SG-XPCIESAS-R-EXT-Z	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415
SG-XPCIESAS-R-REM-Z	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415
SG-XPCIE8SAS-E-Z	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48
SG-XPCIE8SAS-EB-Z ³	mptscsi_2xx	2.06.34.01	mptscsi_2xx	2.06.34.01	mptscsi_2xx	2.06.34.01
SG-XPCIE8SAS-I-Z	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48
SG-XPCI8SAS-E-Z	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48	mptscsi_2xx	2.06.48
SG-XPCI1FC-EM2	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
SG-XPCI1FC-EM4-Z	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13

Table 15. Sun Storage IO Devices (Continued)

Device Model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
SG-XPCI1FC-QF2 ¹	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
SG-XPCI1FC-QF4	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
SG-XPCI2FC-EM2	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
SG-XPCI2FC-EM4-Z	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
SG-XPCI2FC-QF2 ¹	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
SG-XPCI2FC-QF2-Z ¹	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
SG-XPCI2FC-QF4	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
SG-XPCIE1FC-EM4	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
SG-XPCIE1FC-QF4	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
SG-XPCIE2FC-EB4-Z ²	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
SG-XPCIE2FC-EM4	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
SG-XPCIE2FC-QB4-Z	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
SG-XPCIE2FC-QF4	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
SG-XPCIE20FC-NEM-Z ²	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13	lpfc_740	elx_7.4.0.13
SG-XPCI1FC-QL2	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
SGXPCIESAS-R-INT-Z	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415	aacraid_esx30	1.1.5-2415
StorageTek HBAQ032	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
¹ This OEM version of the QLogic adapter does not support boot-from-SAN.						
² This Sun adapter does not support boot-from-SAN and is only supported with the driver update supplied in patch ESX-1541239. Download the patch from http://www.vmware.com/download/vi/ .						
³ Requires ESX Server 3.5 Update 1 for ESX Server 3.5. Requires ESX Server 3i version 3.5 Update 1 for ESX Server 3i Embedded or Installable.						
⁴ Supported at 4 GB speed with ESX Server 3.5 Update 1.						
⁵ Supported at 8 GB speed with ESX Server 3.5 Update 2 or higher.						
⁶ Requires Update 2 or higher of the ESX Server version listed in the corresponding column.						

Table 16. QLogic Storage IO Devices - Fibre Channel HBA

Device Model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
QLA2310	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLA2310F	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32

Table 16. QLogic Storage IO Devices - Fibre Channel HBA (Continued)

Device Model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
QLA2310FL	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLA2312	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLA2340	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLA2340L	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLA2342	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLA2342L	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLA2344	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLA2362	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLA2460-E-FRU	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLA2460-E-SP	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLA2462-E-FRU	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLA2462-E-SP	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLE2360	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLE2460-E-FRU	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLE2460-E-SP	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLE2462-E-FRU	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLE2462-E-SP	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLE2560/QLE2562 ⁹	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLE2464	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QLE8042 CNA ^{1, 2, 3, 4, 5, 6, 7, 8, 9}	qla2300_707_vmw	7.08-vm60				
QMA2312	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QMC2462	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QMC2462s	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QME2462	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
QMH2462	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
SANblade QEM2462 4G PCI-E ExpressModule	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
SANblade QLA2440 4G PCI-X2	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
SANblade QLA2460 4G PCI-X2	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
SANblade QLA2462 4G PCI-X2	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
SANblade QLE2440 4G PCI-E	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32

Table 16. QLogic Storage IO Devices - Fibre Channel HBA (Continued)

Device Model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
SANblade QLE2460 4G PCI-E	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
SANblade QLE2462 4G PCI-E	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
SANblade QMA2312	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
SANblade QMC2462	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
SANblade QMC2462s	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
SANblade QME2462	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
SANblade QMH2462	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
¹ Please refer to the section "Storage Arrays supported with FCoE CNAs" in the SAN Hardware Compatibility Guide for storage arrays supported with this adapter.						
² VMware tested this adapter in a configuration with the Cisco Nexus 5000 providing FCoE bridging functions and Cisco MDS 9000 switches providing Fibre Channel connectivity. Please work with your switch vendor for other supported network topologies, connectivity options and minimum supported switch firmware versions.						
³ Software iSCSI is not supported with this adapter.						
⁴ NetQueue is not supported with this adapter.						
⁵ NPIV is not supported with this adapter.						
⁶ Wake on LAN is not supported with this adapter.						
⁷ NIC Teaming with "failover detection" set to "Beacon" is not supported.						
⁸ Requires driver CD from: http://www.vmware.com/download/vi/drivers_tools.html						
⁹ Requires Update 2 or higher of the ESX Server version listed in the corresponding column.						

Table 17. QLogic Storage Devices - iSCSI

Device Model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
QLogic QLA4010 ¹						
QLA4050	qla4022	3.30	qla4022	3.30	qla4022	3.30
QLA4050C/QLA4052C ²	qla4022	3.30	qla4022	3.30	qla4022	3.30
QLE4060/QLE4062	qla4022	3.30	qla4022	3.30	qla4022	3.30
QLE4060C/QLE4062C	qla4022	3.30	qla4022	3.30	qla4022	3.30
¹ QLogic 4010 iSCSI adapter requires BIOS v1.09 and firmware v02.00.00.05, or later. In ESX Server 3.0.x, qla4010 is considered an experimental driver. VMware will provide limited support for devices using this driver.						
² QLogic iSCSI adapters require minimum BIOS v1.09 and minimum firmware v2.00.00.38.						

Table 18. Brocade Storage IO Devices - Fibre Channel HBA

Device Model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
Brocade 415 ^{1,2}	bfa	1.0.0.02				
Brocade 425 ^{1,3}	bfa	1.0.0.02				
Brocade 815 ^{1,4,6}	bfa	1.0.0.02				
Brocade 825 ^{1,5,6}	bfa	1.0.0.02				
¹ Requires driver CD from: http://www.vmware.com/download/vi/drivers_tools.html						
² Only footnoted Storage Arrays are supported with the Brocade 415 HBA with the bfa 1.0.0.02 driver.						
³ Only footnoted Storage Arrays are supported with the Brocade 425 HBA with the bfa 1.0.0.02 driver.						
⁴ Only footnoted Storage Arrays are supported with the Brocade 815 HBA with the bfa 1.0.0.02 driver.						
⁵ Only footnoted Storage Arrays are supported with the Brocade 825 HBA with the bfa 1.0.0.02 driver.						
⁶ Requires Update 2 or higher of the ESX Server version listed in the corresponding column.						

Supported SAS/SATA Dual Controllers

ESX Server 3.5 supports selected SATA devices connected to dual SAS/SATA controllers. This support is limited to ESX Server 3.5. It is not included with ESX Server 3.0.x. The supported dual SAS/SATA controllers are:

- mptscsi_2xx - LSI1064
- mptscsi_2xx (PCIE) - LSI1078
- mptscsi_pcie - LSI1068E (LSISAS3442E)
- mptscsi_pcix - LSI1068 (SAS 5)
- aacraid_esx30 - IBM serveraid 8k SAS controller
- cciss - Smart Array P400/256 controller
- megaraid_sas - Dell PERC 5/i controller

Network I/O Drivers and Devices

This section discusses network I/O devices and drivers in the following sections:

- [“Network I/O Drivers and Versions”](#) on page 26
- [“Network I/O Device and Model Information”](#) on page 26

Network I/O Drivers and Versions

The following table summarizes the driver versions shipped with the stated release of ESX Server software, listing the device models and driver versions.

Table 19. Drivers shipped with ESX Server software

Class	Vendor	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
		Driver	Version	Driver	Version	Driver	Version
Network	Broadcom	tg3	3.43b	tg3	3.43b	tg3	3.43b
	Broadcom	bnx2	1.5.10b	bnx2	1.5.10b	bnx2	1.5.10b
	Intel	e100	2.3.40	e100	2.3.40	e100	2.3.40
	Intel	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
	Intel ³	igb	1.0.0	igb	1.0.0	igb	1.0.0
	Intel ^{2, 4, 5, 6}	ixgbe	3.5_1.3.7.4_16_73033	ixgbe	3.5_1.3.7.4_16_73033	ixgbe	3.5_1.3.7.4_16_73033
	Neterion ^{5, 6}	s2i0	2.1.0.11070	s2i0	2.1.0.11070	s2i0	2.1.0.11070
	NetXen ¹	unm_nic	3.4.115	unm_nic	3.4.115	unm_nic	3.4.115
Nvidia	forcedeth	0.60 v1.25	forcedeth	0.60 v1.25	forcedeth	0.60 v1.25	

¹ Hardware must be Rev 25 or higher. Support system with 31GB or less RAM. Refer to <http://kb.vmware.com/kb/1003046>.

² NetQueue-enabled.

³ Igb driver 1.0.0 supports VLAN trunking mode with patch ESX350-200802412-BG or ESX Server 3.5 Update 1.

⁴ Requires ESX Server 3.5 Update 1 for ESX Server 3.5. Requires ESX Server 3i version 3.5 Update 1 for ESX Server 3i Embedded or Installable.

⁵ The maximum supported number of dual-port adapters is 1 with both NetQueue and Jumbo Frames enabled, 2 with only NetQueue enabled, and 4 with neither enabled. The maximum supported number of single-port adapters is 2 with both NetQueue and Jumbo Frames enabled, 4 with only NetQueue enabled, and 8 with neither enabled.

⁶ For more information on enabling Jumbo Frames and NetQueue on this device, refer to knowledge base article <http://kb.vmware.com/kb/1004278>.

Network I/O Device and Model Information

The detailed lists show actual vendor devices that are either physically tested or are similar to the devices tested by VMware or VMware partners. VMware provides support only for the devices listed in this document.

Please contact VMware with any questions about current and planned device support.

Devices from the following vendors are currently supported:

- [“Broadcom Networking Devices”](#) on page 27
- [“Chelsio Communications Networking Devices”](#) on page 28
- [“Dell Networking Devices \(Intel or Broadcom OEM\)”](#) on page 29

- [“Hewlett Packard Networking Devices \(Intel, Broadcom, or NetXen OEM\)”](#) on page 29
- [“IBM Networking Devices \(Intel OEM\)”](#) on page 31
- [“IBM Networking Devices \(Neterion OEM\),”](#) on page 32
- [“IBM Networking Devices \(NetXen OEM\),”](#) on page 32
- [“Intel Networking Devices”](#) on page 33
- [“NetEffect Networking Devices,”](#) on page 34
- [“Neterion Networking Devices,”](#) on page 35
- [“NetXen Networking Devices,”](#) on page 35
- [“Nvidia Networking Devices,”](#) on page 35
- [“ServerEngines Networking Devices,”](#) on page 36
- [“Sun Networking Devices”](#) on page 37

Table 20. Broadcom Networking Devices

Device model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
BCM 5703C	tg3	3.43b	tg3	3.43b	tg3	3.43b
BCM 5703S	tg3	3.43b	tg3	3.43b	tg3	3.43b
BCM 5704	tg3	3.43b	tg3	3.43b	tg3	3.43b
BCM 5704C	tg3	3.43b	tg3	3.43b	tg3	3.43b
BCM 5704C - Dual port	tg3	3.43b	tg3	3.43b	tg3	3.43b
BCM 5704S	tg3	3.43b	tg3	3.43b	tg3	3.43b
BCM 5706	bnx2	1.5.10b	bnx2	1.5.10b	bnx2	1.5.10b
BCM 5706 based Server Adapter	bnx2	1.5.10b	bnx2	1.5.10b	bnx2	1.5.10b
BCM 5708	bnx2	1.5.10b	bnx2	1.5.10b	bnx2	1.5.10b
BCM 5708S PCI-X to PIB Bridge	bnx2	1.5.10b	bnx2	1.5.10b	bnx2	1.5.10b
BCM5709	bnx2	1.5.10b	bnx2	1.5.10b	bnx2	1.5.10b
BCM5701	tg3	3.43b	tg3	3.43b	tg3	3.43b
BCM5702	tg3	3.43b	tg3	3.43b	tg3	3.43b
BCM5703	tg3	3.43b	tg3	3.43b	tg3	3.43b

Table 20. Broadcom Networking Devices (Continued)

Device model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
BCM5704	tg3	3.43b	tg3	3.43b	tg3	3.43b
BCM5704S	tg3	3.43b	tg3	3.43b	tg3	3.43b
BCM5705	tg3	3.43b	tg3	3.43b	tg3	3.43b
BCM5705F	tg3	3.43b	tg3	3.43b	tg3	3.43b
BCM5705M	tg3	3.43b	tg3	3.43b	tg3	3.43b
BCM 5714	tg3	3.43b	tg3	3.43b	tg3	3.43b
BCM 5715	tg3	3.43b	tg3	3.43b	tg3	3.43b
BCM 5716 ^{2,3}	bnx2	1.5.10b.1.1	bnx2	1.5.10b.1.1	bnx2	1.5.10b.1.1
BCM 5721	tg3	3.43b	tg3	3.43b	tg3	3.43b
BCM 5722 ¹	tg3	3.81c	tg3	3.81c	tg3	3.81c
BCM 57710 ^{2,3}	bnx2x	1.45.20	bnx2x	1.45.20	bnx2x	1.45.20
BCM 57711 ^{2,3,4}	bnx2x	1.45.20	bnx2x	1.45.20	bnx2x	1.45.20
BCM5782	tg3	3.43b	tg3	3.43b	tg3	3.43b
BCM5788	tg3	3.43b	tg3	3.43b	tg3	3.43b
BCM5901	tg3	3.43b	tg3	3.43b	tg3	3.43b
Do not use Broadcom 5700 Rev 14 or 5701 Rev 15 for heavy traffic, VMotion, or Service Console on ESX Server 2.x and 3.x. Update your BCM5700 firmware.						
¹ Requires Update 2 or higher of the ESX Server version listed in the corresponding column.						
² Requires Update 3 or higher of the ESX Server version listed in the corresponding column.						
³ NetQueue is not supported on this adapter.						
⁴ Supported at 1Gb speeds only.						

Table 21. Chelsio Communications Networking Devices

Device model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
S310E ¹	cxgb3	1.1.0				
S320E ¹	cxgb3	1.1.0				
¹ Requires driver CD from http://www.vmware.com/support/vi3/doc/drivercd/esx35-cxgb3-cdrom-1.1.0.html						

Table 22. Dell Networking Devices (Intel or Broadcom OEM)

Device model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
BCM 5703	tg3	3.43b	tg3	3.43b	tg3	3.43b
BCM 5704	tg3	3.43b	tg3	3.43b	tg3	3.43b
BCM 5708	bnx2	1.5.10b	bnx2	1.5.10b	bnx2	1.5.10b
BCM 5721, PCI-E	tg3	3.43b	tg3	3.43b	tg3	3.43b
Intel Gigabit VT Quad Port Server Adapter ¹	igb	1.0.0	igb	1.0.0	igb	1.0.0
Dell PRO/100 server connections	e100	2.3.40	e100	2.3.40	e100	2.3.40
Dell PRO/100 server Adapter	e100	2.3.40	e100	2.3.40	e100	2.3.40
Intel PRO/1000MT Dual Port Server Adapter	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
Intel PRO/1000MT Server Adapter	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
Intel PRO/1000 PT Dual Port Server Adapter	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
Intel PRO/1000 PT Quad Port Server Adapter	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
Intel PRO/1000 PT Server Adapter	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15

¹ The maximum supported number of Intel Gigabit VT Quad Port Server Adapter is 2.

Table 23. Hewlett Packard Networking Devices (Intel, Broadcom, or NetXen OEM)

Device model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
HP PRO/100 Server Adapters	e100	2.3.40	e100	2.3.40	e100	2.3.40
HP Gigabit Ethernet Server Adapter	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
NC110T	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
NC150T	bnx2	1.5.10b	bnx2	1.5.10b	bnx2	1.5.10b
HP NC320T	tg3	3.43b	tg3	3.43b	tg3	3.43b
HP NC325m	tg3	3.43b	tg3	3.43b	tg3	3.43b
HP NC326i	tg3	3.43b	tg3	3.43b	tg3	3.43b
HP NC326m	tg3	3.43b	tg3	3.43b	tg3	3.43b
HP NC370f	bnx2	1.5.10b	bnx2	1.5.10b	bnx2	1.5.10b
HP NC373f	bnx2	1.5.10b	bnx2	1.5.10b	bnx2	1.5.10b
HP NC374m	bnx2	1.5.10b	bnx2	1.5.10b	bnx2	1.5.10b
HP NC6134 Gigabit NIC	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15

Table 23. Hewlett Packard Networking Devices (Intel, Broadcom, or NetXen OEM) (Continued)

Device model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
HP NC6136 Gigabit Server Adapter	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
HP NC7131 Gigabit Server Adapter	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
HP NC7132 Gigabit Server Adapter	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
HP NC 7170 Dual PCI-X 1000-T Server Adapter	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
HP NC6170 Dual PCI-X 1000-SX Server Adapter	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
HP ProLiant NC310F PCI-X Gigabit Server Adapter	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
HP NC340T PCI-X Quad-port Gigabit Server Adapter	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
HP NC360T PCIe Dual-port Gigabit Server Adapter	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
HP NC364T PCIe Quad-port Gigabit Server Adapter	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
HP NC373T	bnx2	1.5.10b	bnx2	1.5.10b	bnx2	1.5.10b
NC7770	tg3	3.43b	tg3	3.43b	tg3	3.43b
NC7780	tg3	3.43b	tg3	3.43b	tg3	3.43b
NC7771	tg3	3.43b	tg3	3.43b	tg3	3.43b
NC7781 LOM	tg3	3.43b	tg3	3.43b	tg3	3.43b
NC7760 LOM	tg3	3.43b	tg3	3.43b	tg3	3.43b
NC7782 LOM	tg3	3.43b	tg3	3.43b	tg3	3.43b
NC7783 LOM	tg3	3.43b	tg3	3.43b	tg3	3.43b
NC7761 LOM	tg3	3.43b	tg3	3.43b	tg3	3.43b
NC1020	tg3	3.43b	tg3	3.43b	tg3	3.43b
HP NC320m	tg3	3.43b	tg3	3.43b	tg3	3.43b
HP NC272F	bnx2	1.5.10b	bnx2	1.5.10b	bnx2	1.5.10b
HP NC371i	bnx2	1.5.10b	bnx2	1.5.10b	bnx2	1.5.10b
HP NC373i	bnx2	1.5.10b	bnx2	1.5.10b	bnx2	1.5.10b
HP NC373m	bnx2	1.5.10b	bnx2	1.5.10b	bnx2	1.5.10b
HP NC380T	bnx2	1.5.10b	bnx2	1.5.10b	bnx2	1.5.10b
NC370i Integrated NIC	bnx2	1.5.10b	bnx2	1.5.10b	bnx2	1.5.10b
NC370T Dalhart-Lite	bnx2	1.5.10b	bnx2	1.5.10b	bnx2	1.5.10b
NC510C PCIe 10 Gigabit Server Adapter ¹	unm_nic	3.4.350 ²	unm_nic	3.4.115	unm_nic	3.4.115
NC510F ¹	unm_nic	3.4.350 ²	unm_nic	3.4.115	unm_nic	3.4.115
NC512M ¹	unm_nic	3.4.350 ²	unm_nic	3.4.115	unm_nic	3.4.115

Table 23. Hewlett Packard Networking Devices (Intel, Broadcom, or NetXen OEM) (Continued)

Device model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
¹ Support system with 31GB or less RAM. Refer to http://kb.vmware.com/kb/1003046 .						
² Requires ESX 3.5 Update 2 and unm_nic driver CD from http://www.vmware.com/download/vi/drivers_tools.html						

Table 24. IBM Networking Devices (Intel OEM)

Device model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
2/4 Port Ethernet Expansion Card (Cffh) for IBM BladeCenter	bnx2	1.5.10b	bnx2	1.5.10b	bnx2	1.5.10b
IBM Netfinity Gigabit Ethernet SX Adapter	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
IBM Gigabit Ethernet SX Server Adapter	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
IBM Total Storage Gigabit Ethernet Copper Adapter	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
IBM PRO/100 server adapters	e100	2.3.40	e100	2.3.40	e100	2.3.40
PRO/1000 GT Dual Port Server Adapter by Intel	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
PRO/1000 GT Quad Port Server Adapter by Intel	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
PRO/1000 GT Server Adapter by Intel	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
PRO/1000 MT Dual Port Server Adapter by Intel	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
PRO/1000 MT Server Ethernet Adapter by Intel	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
PRO/1000 PF Server Adapter by Intel	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
PRO/1000 PT Dual Port Server Adapter by Intel	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
PRO/1000 PT Quad Port Server Adapter by Intel	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
PRO/1000 PT Quad Port LP Server Adapter by Intel	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
PRO/1000 XT Server Adapter by Intel	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
NetXtreme II 1000 Express Ethernet Adapter	bnx2	1.5.10b	bnx2	1.5.10b	bnx2	1.5.10b
NetXtreme 1000 T Express Ethernet Adapter	tg3	3.43b	tg3	3.43b	tg3	3.43b
NetXtreme 1000 T + Ethernet Adapter	tg3	3.43b	tg3	3.43b	tg3	3.43b
NetXtreme 1000 T + Dual Port Ethernet Adapter	tg3	3.43b	tg3	3.43b	tg3	3.43b
NetXtreme 1000 SX + Fiber Ethernet Adapter	tg3	3.43b	tg3	3.43b	tg3	3.43b
NetXtreme 1000 Express G Ethernet Adapter	tg3	3.43b	tg3	3.43b	tg3	3.43b

Table 24. IBM Networking Devices (Intel OEM) (Continued)

Device model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
QLogic Ethernet and 4Gb Fibre Channel Expansion Card (CFFh) for IBM BladeCenter™	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32	qla2300_707_vmw	7.08-vm32
	tg3	3.43b	tg3	3.43b	tg3	3.43b

Table 25. IBM Networking Devices (Neterion OEM)

Device Model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
IBM 10 GbE Fiber SR Server Adapter ¹	s2i0	2.1.0.11070				

¹ NetQueue Enabled.

Table 26. IBM Networking Devices (NetXen OEM)

Device Model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
IBM 10 GbE PCIe SR Server Adapter ^{1, 2}	unm_nic	3.4.350 ³				
IBM 10 Gb Ethernet Expansion Card (CFFh) for IBM BladeCenter ²	unm_nic	3.4.350 ³	unm_nic	3.4.115	unm_nic	3.4.115

¹ Hardware must be Rev 25 or higher.

² Support system with 31GB or less RAM. Refer to <http://kb.vmware.com/kb/1003046>.

³ Requires ESX 3.5 Update 2 and unm_nic driver CD from http://www.vmware.com/download/vi/drivers_tools.html

Table 27. Intel Networking Devices

Device model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
Intel 80003ES2LAN Gigabit Ethernet Controller	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
Intel 82562 based Fast Ethernet Connection	e100	2.3.40	e100	2.3.40	e100	2.3.40
Intel 8255xER based Network Connection	e100	2.3.40	e100	2.3.40	e100	2.3.40
Intel 82546GB PRO/1000 GT Quad Port Server Adapter	igb	1.0.0	igb	1.0.0	igb	1.0.0
Intel 82574L Gigabit Network Connection ⁷	e1000e	0.4.1.7				
Intel Gigabit Ethernet 82575EB	igb	1.0.0				
Intel 82598EB 10 Gigabit AT CX4 Network Connection ^{4, 5, 6, 7}	ixgbe	1.3.31.5				
Intel 10 Gigabit AT Server Adapter ^{4, 5, 6, 7}	ixgbe	1.3.31.5				
Intel 10 Gigabit CX4 Dual Port Server Adapter ^{4, 5, 6, 7}	ixgbe	1.3.31.5				
Intel 10 Gigabit XF LR Server Adapter ^{4, 5, 6, 7}	ixgbe	1.3.31.5				
Intel 10 Gigabit XF SR Dual Port Server Adapter ^{2, 4, 5, 6}	ixgbe	1.3.31.5 ⁷	ixgbe	3.5_1.3.7.4_16_73033	ixgbe	3.5_1.3.7.4_16_73033
Intel 10 Gigabit XF SR Server Adapter ^{2, 3, 5, 6}	ixgbe	1.3.31.5 ⁷	ixgbe	3.5_1.3.7.4_16_73033	ixgbe	3.5_1.3.7.4_16_73033
Intel Gigabit CT Desktop Adapter ⁷	e1000e	0.4.1.7				
Intel Gigabit PT Quad Port Server ExpressModule	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
Intel Gigabit VT Quad Port Server Adapter ¹	igb	1.0.0	igb	1.0.0	igb	1.0.0
Intel PRO/100+ Management Adapter with Alert on LAN G Server	e100	2.3.40	e100	2.3.40	e100	2.3.40
Intel PRO/100 server adapters	e100	2.3.40	e100	2.3.40	e100	2.3.40
Intel Pro/1000 GT Server Adapter	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
Intel Pro/1000 GT Dual Port Server Adapter	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
Intel PRO/1000 GT Quad Port Server Adapter	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
Intel PRO/1000 PF Quad Port Server Adapter	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
Intel PRO/1000 MB Dual Port Server Connection	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
Intel PRO/1000 MF Server Adapter (LX)	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
Intel PRO/1000 MF Dual Port Server Adapter	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
Intel PRO/1000 MT Network Connection	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
Intel PRO/1000 MT Server Connection	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
Intel Pro/1000 MT Server Adapter	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
Intel Pro/1000 MT Dual Port Server Adapter	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
Intel PRO/1000 MT Dual Port Network Connection	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15

Table 27. Intel Networking Devices (Continued)

Device model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
Intel PRO/1000 MT Quad Port Server Adapter	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
Intel Pro/1000 P Dual Port Server Adapter	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
Intel PRO/1000 PF Dual Port Server Adapter	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
Intel PRO/1000 PF Server Adapter	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
Intel PRO/1000 PT Server Adapter	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
Intel PRO/1000 PT Dual Port Server Adapter	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
Intel PRO/1000 PT Quad Port Server Adapter	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
Intel PRO/1000 PT Quad Port LP Server Adapter	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
Intel PRO/1000 XF Server Adapter	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
Intel PRO/1000 XT Network Connection	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
Intel PRO/1000 XT Server Adapter	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
¹ The maximum supported number of Intel Gigabit VT Quad Port Server Adapter is 2.						
² Requires ESX Server 3.5 Update 1 for ESX Server 3.5. Requires ESX Server 3i version 3.5 Update 1 for ESX Server 3i Embedded or Installable.						
³ The maximum supported number of single-port adapters is 2 with both NetQueue and Jumbo Frames enabled, 4 with only NetQueue enabled, and 8 with neither enabled.						
⁴ The maximum supported number of dual-port adapters is 1 with both NetQueue and Jumbo Frames enabled, 2 with only NetQueue enabled, and 4 with neither enabled.						
⁵ For more information on configuring and enabling this device for use with ESX Server, refer to knowledge base articles http://kb.vmware.com/kb/1004278 and http://kb.vmware.com/kb/1004593 .						
⁶ NetQueue-enabled.						
⁷ Requires ESX 3.5 Update 2 and driver CD from http://www.vmware.com/download/vi/drivers_tools.html						

Table 28. NetEffect Networking Devices

Device model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
NE020 ^{1, 2}	iw_nes	8.38.21				
¹ Requires driver CD from http://www.vmware.com/support/vi3/doc/drivercd/esx35-iw_nes-cdrom-8.38.21.html						
² Supported devices NE020.LP.1.XSR and NE020.LP.1.CX4.						

Table 29. Neterion Networking Devices

Device model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
Xframe II CX4	s2i0	2.1.0.11070	s2i0	2.1.0.11070	s2i0	2.1.0.11070
Xframe II SR	s2i0	2.1.0.11070	s2i0	2.1.0.11070	s2i0	2.1.0.11070
Xframe II LR	s2i0	2.1.0.11070	s2i0	2.1.0.11070	s2i0	2.1.0.11070
Xframe II Sun Fire CX4	s2i0	2.1.0.11070	s2i0	2.1.0.11070	s2i0	2.1.0.11070
Xframe II Sun Fire	s2i0	2.1.0.11070	s2i0	2.1.0.11070	s2i0	2.1.0.11070
Xframe II Sun Fire LR	s2i0	2.1.0.11070	s2i0	2.1.0.11070	s2i0	2.1.0.11070
Xframe E CX4	s2i0	2.1.0.11070	s2i0	2.1.0.11070	s2i0	2.1.0.11070
Xframe E SR	s2i0	2.1.0.11070	s2i0	2.1.0.11070	s2i0	2.1.0.11070
Xframe E LR	s2i0	2.1.0.11070	s2i0	2.1.0.11070	s2i0	2.1.0.11070

Table 30. NetXen Networking Devices

Device model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
NXB-10GCX4 ¹	unm_nic	3.4.350 ²	unm_nic	3.4.115	unm_nic	3.4.115
NXB-10GXxR ¹	unm_nic	3.4.350 ²	unm_nic	3.4.115	unm_nic	3.4.115

¹ Driver Version 3.4.115 supported with 31 GB of RAM or less. Refer to <http://kb.vmware.com/kb/1003046>.

² Requires ESX 3.5 Update 2 and unm_nic driver CD from http://www.vmware.com/download/vi/drivers_tools.html

Table 31. Nvidia Networking Devices

Device model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
NVIDIA nForce Professional 2200 MCP 1Gbe NIC	forcedeth	0.60 v1.25	forcedeth	0.60 v1.25	forcedeth	0.60 v1.25
NVIDIA nForce Professional 2050 I/O companion chip 1Gbe NIC	forcedeth	0.60 v1.25	forcedeth	0.60 v1.25	forcedeth	0.60 v1.25
NVIDIA nForce Professional 3600 1Gbe NIC	forcedeth	0.60 v1.25	forcedeth	0.60 v1.25	forcedeth	0.60 v1.25

Table 32. ServerEngines Networking Devices

Device model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
BEA3X11-S11 ¹	benet	1.0.748.1155				
BEM3H10-S11 ¹	benet	1.0.748.1155				
BEM3I10-S01 ¹	benet	1.0.748.1155				
PRIMERGY BX600 10GbE I/O Module ¹	benet	1.0.748.1155				

¹ Requires driver CD from http://www.vmware.com/download/vi/drivers_tools.html

Table 33. Sun Networking Devices

Device model	ESX Server 3.5		ESX Server 3i Embedded		ESX Server 3i Installable	
	Driver	Version	Driver	Version	Driver	Version
SG-XPCIE2FCGBE-E-Z	e1000	7.3.15				
SG-XPCIE2FCGBE-Q-Z	e1000	7.3.15				
X1106A-Z ^{1, 2, 3, 4}	ixgbe	3.5_1.3.7.4_16_73033	ixgbe	3.5_1.3.7.4_16_73033	ixgbe	3.5_1.3.7.4_16_73033
X1107A-Z ^{1, 2, 3, 4}	ixgbe	3.5_1.3.7.4_16_73033	ixgbe	3.5_1.3.7.4_16_73033	ixgbe	3.5_1.3.7.4_16_73033
X4446A-Z	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
X5040A-Z	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
X7280A-2	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
X7281A-2	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
X7282A-Z	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
X7283A-Z	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
X7284A-Z	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
X7285A	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
X7286A	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
X7291A	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
X9271A	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
X9272A	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
X9273A	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
X9273A-Z	e1000	7.3.15	e1000	7.3.15	e1000	7.3.15
¹ NetQueue-enabled.						
² The maximum supported number of single-port adapters is 2 with both NetQueue and Jumbo Frames enabled, 4 with only NetQueue enabled, and 8 with neither enabled.						
³ For more information on configuring and enabling this device for use with ESX Server, refer to knowledge base articles http://kb.vmware.com/kb/1004278 and http://kb.vmware.com/kb/1004593 .						
⁴ Requires Update 1 or higher of the ESX Server version listed in the corresponding column.						

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