

C122-E082-02EN

Application of Firmware Compatible with the Fibre Channel Card Drivers for PRIMEQUEST

Second edition
July 15, 2008

Preface

Purpose

This manual describes the work required for updating the Fibre Channel card firmware compatible with drivers for the Fibre Channel cards (MC-08FC11/31/41/51/61/71) supplied for PRIMEQUEST servers used in Windows environments.

Intended Readers

This manual is intended for system administrators.

Constitution

This manual is organized as follows.

| Chapter and title | Description |
|---|---|
| Chapter 1: Fibre Channel Card Firmware | Describes the firmware compatible with the Fibre Channel card drivers for PRIMEQUEST. |
| Chapter 2: Application of Firmware | Describes the flow for setting the firmware that is compatible with a driver. |
| Chapter 3: Fibre Channel Card Firmware Update Procedures | Describes the preparations required for changing the firmware and explains the procedures for updating it. |
| Appendix : Lists of the Folder Hierarchy on the Firmware CD | Describes the directory paths to the corresponding firmware contained on the Firmware CD. |
| Exhibit : Directions for Fibre Channel Card Settings | Provides directions for the settings of Fibre Channel firmware compatible with various Fibre Channel drivers for Windows Server 2003 as a means for confirming compatibility. |

•Revision History

Publisher : Fujitsu Limited
July, 2008 publication [2.0]

| Edition | Page | Date | Description |
|---------|------|---------------|----------------------------|
| 1.0 | All | Des. 10, 2007 | First issued |
| 2.0 | 43 | Jul. 15. 2008 | Add PRIMEQUEST 500A Series |
| | | | |
| | | | |

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Exhibit Directions for Fibre Channel Card Settings

Chapter 1 Fibre Channel Card Firmware

1.1 Firmware Compatible with the Fibre Channel Card Drivers for PRIMEQUEST

When an FC driver for Windows Server 2003 is installed, firmware for the Fibre Channel card supported by the driver must be updated.

This firmware update work is required at the time of PRIMEQUEST new installation, the Fibre Channel driver change time, and the Fibre Channel card replacement/addition time. For details of the work, see Section 2.1, "Flow for Setting Firmware Compatible with a Driver for Windows Server 2003."

1.1.1 Firmware for the Fibre Channel cards supported by Windows Server 2003 drivers

Note: Only the following pairs of drivers and cards can be used.

| Model name | Number shown in brackets on label for Fibre Channel | Windows Server 2003 driver | | |
|------------|---|-------------------------------|-------------------------------|---------------------------------|
| | | 1.11a3(V6.1.11.3) for Win SP1 | 1.30a6(V6.1.30.6) for Win SP2 | 1.30a9(V6.1.30.9) for Win SP1/2 |
| MC-08FC11 | CA05950-0966 | 1.91a1/1.91a5 | 1.91a5 | |
| MC-08FC71 | CA05950-1020 | | | |
| MC-08FC31 | CA05951-9610 | 2.10a7 | 2.70a5 | |
| MC-08FC41 | CA05951-9611 | | | |
| MC-08FC51 | CA05951-9612 | 2.50a4 | | |
| MC-08FC61 | CA05951-9613 | | | |

- Remarks -

- MC-08FC11 : 2GFC PCI-X Single Port Channel (LP10000)
- MC-08FC71 : 2GFC PCI-X Single Port Channel (LP10000)
- MC-08FC31 : 4GFC PCI-X Single Port Channel (LP11000)
- MC-08FC41 : 4GFC PCI-X Dual Port Channel (LP11002)
- MC-08FC51 : 4GFC PCI-Express Single Port Channel (LPe11000)
- MC-08FC61 : 4GFC PCI-Express Dual Port Channel (LPe11002)

* The 2G Fibre Channel card (MC08FC11/71) firmware that is compatible with one of the above Windows Server 2003 drivers is set by default. This 2G Fibre Channel card firmware need not be updated as described here. (Products shipped after June 2007)

Note: For the Fibre Channel cards purchased before June 2007, only the firmware compatible with Windows Server 2003 1.11a3 (V6.1.11.3) can be set by default.

* The 4G Fibre Channel card (MC08FC31/41/51/61) firmware that is compatible with Windows Server 2003 1.11a3 (V6.1.11.3) is set by default. To use Fibre Channel card firmware together with the Windows Server 2003 1.30a6 (V6.1.30.6) or 1.30a9 (V6.1.30.9) driver, update the firmware.

* Firmware CD(C122-E018-XXC2) is version 16 or later for PRIMEQUEST 420, PRIMEQUEST 480/440, PRIMEQUEST 520 and PRIMEQUEST 580/540.

* Firmware CD(C122-E018-XXC2) is version 18 or later for PRIMEQUEST 520A, PRIMEQUEST 580A/540A and PRIMEQUEST 510A.

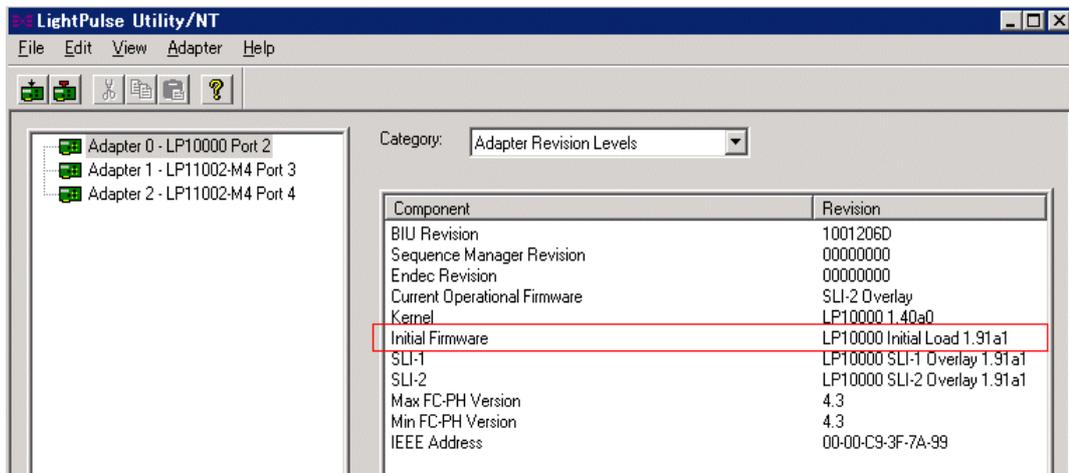
* XX in "C122-E018-XXC2" represents an arbitrary value.
(For example, if XX is 18, it represents Version 18.)

1.1.2 Confirming the firmware version

Confirm the current firmware version by following one of the procedures below.

(1) Confirmation with a Windows tool (LightPulse Utility/NT)

1. Start LightPulse Utility/NT.
Click the [Start] button, and then click [Program] (or [All Programs]) - [Emulex] - [lputilnt]. LightPulse Utility/NT is started.
2. Select the corresponding Fibre Channel card (port). Select [Adapter Revision Levels] in [Category:].
3. Confirm the Revision number of the Initial Firmware component.



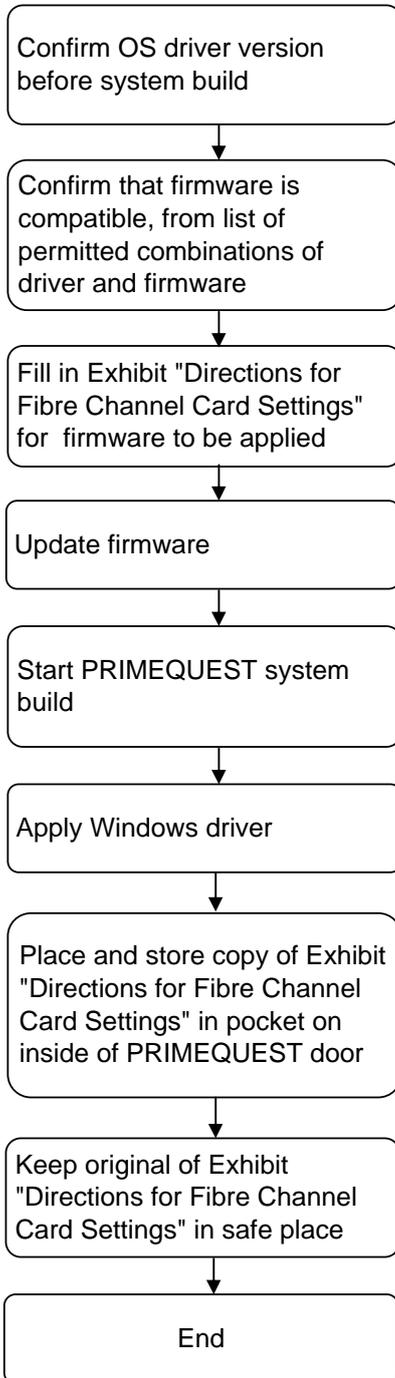
(2) Confirmation with an EFI tool (Emulex FC EFI-Bios Firmware Update Utility)

See Section 3.6.3-3 (or 3.6.9-3), "Confirm the version number before the update," in the section titled Fibre Channel Card Firmware Update Procedures in Detail."

Chapter 2 Application of Firmware

2.1 Flow for Setting Firmware Compatible with a Driver for Windows Server 2003

(1) PRIMEQUEST new installation



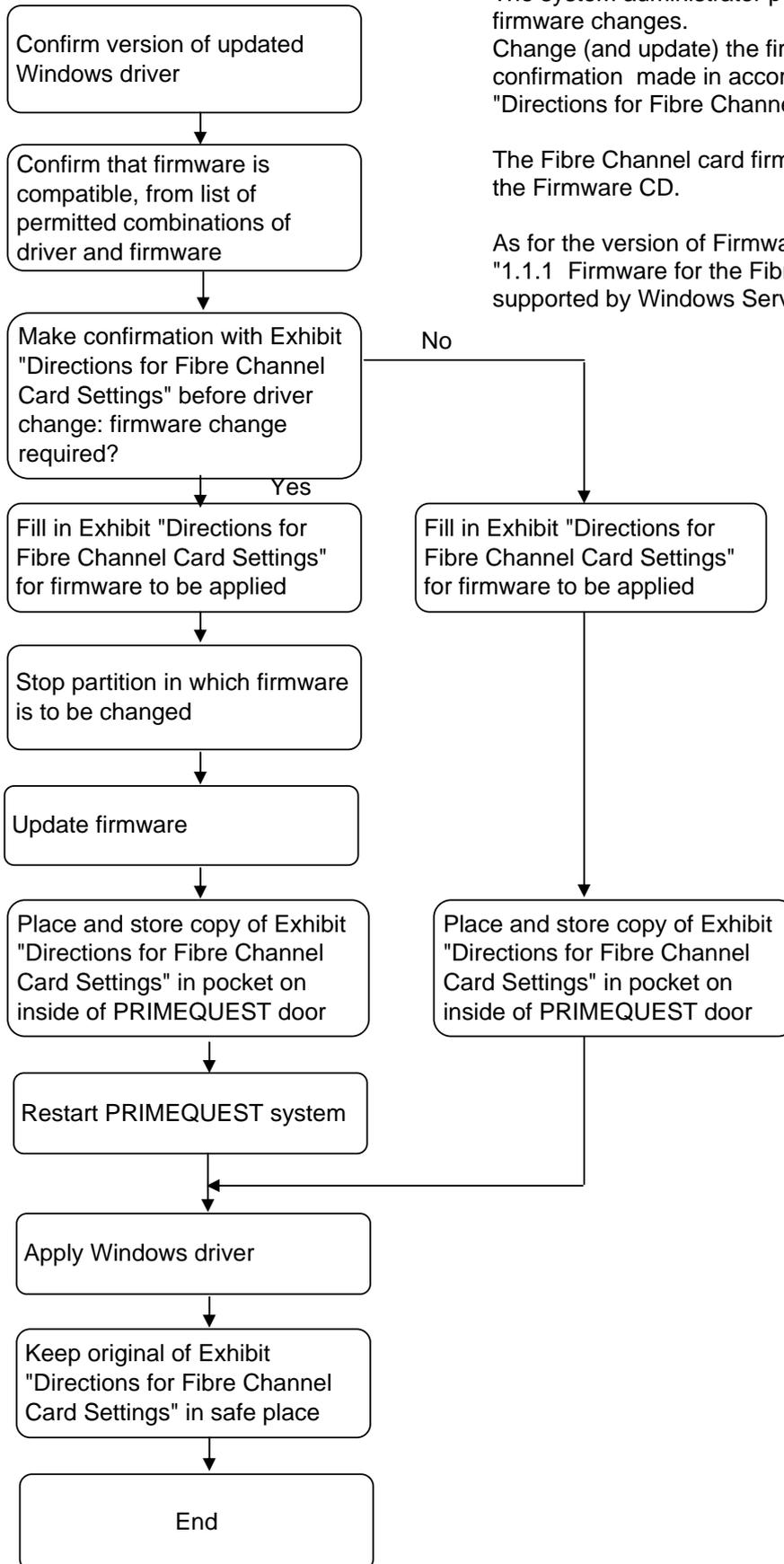
The system administrator performs the work for firmware changes.

Change (and update) the firmware, with confirmation made in accordance with Exhibit "Directions for Fibre Channel Card Settings".

The Fibre Channel card firmware is updated with the Firmware CD.

As for the version of Firmware CD, refer to "1.1.1 Firmware for the Fibre Channel cards supported by Windows Server 2003 drivers"

(2) Fibre Channel driver change

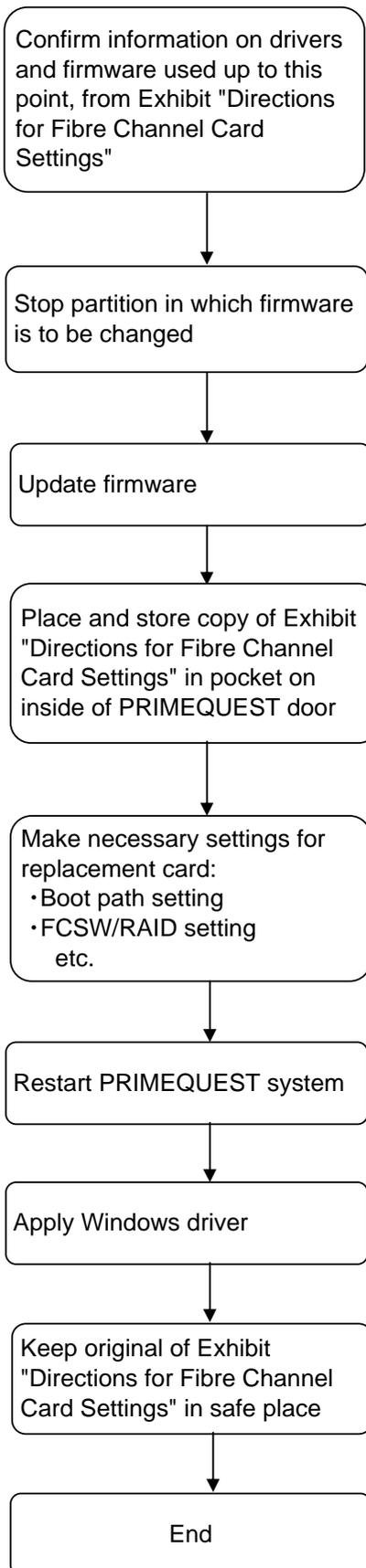


The system administrator performs the work for firmware changes.
Change (and update) the firmware, with confirmation made in accordance with Exhibit "Directions for Fibre Channel Card Settings".

The Fibre Channel card firmware is updated with the Firmware CD.

As for the version of Firmware CD, refer to "1.1.1 Firmware for the Fibre Channel cards supported by Windows Server 2003 drivers"

(3) Fibre Channel card



The system administrator performs the work for firmware changes.

Change (and update) the firmware, with confirmation made in accordance with Exhibit "Directions for Fibre Channel Card Settings".

The Fibre Channel card firmware is updated with the Firmware CD.

As for the version of Firmware CD, refer to "1.1.1 Firmware for the Fibre Channel cards supported by Windows Server 2003 drivers"

If the work for firmware changes is unnecessary in Fibre Channel card replacement (i.e., the card at the shipment time has firmware with the same revision number), this task is unnecessary.

Chapter 3 Fibre Channel Card Firmware Update Procedures

3.1 Preliminary Information

This chapter explains how to change the firmware for the Fibre Channel cards supplied for PRIMEQUEST servers.

The model names, purchasing numbers, and maintenance part numbers of the Fibre Channel cards are as follows:

- MC-08FC11 (CA06657-E301 / CA05950-0966) --- 2G FC PCI-X Single Port
- MC-08FC71 (CA06657-E311 / CA05950-1020) --- 2G FC PCI-X Dual Port
- MC-08FC31 (CA06657-E303 / CA05951-9610) --- 4G FC PCI-X Single Port
- MC-08FC41 (CA06657-E304 / CA05951-9611) --- 4G FC PCI-X Dual Port
- MC-08FC51 (CA06657-E305 / CA05951-9612) --- 4G FC PCI-Ex Single Port
- MC-08FC61 (CA06657-E306 / CA05951-9613) --- 4G FC PCI-Ex Dual Port

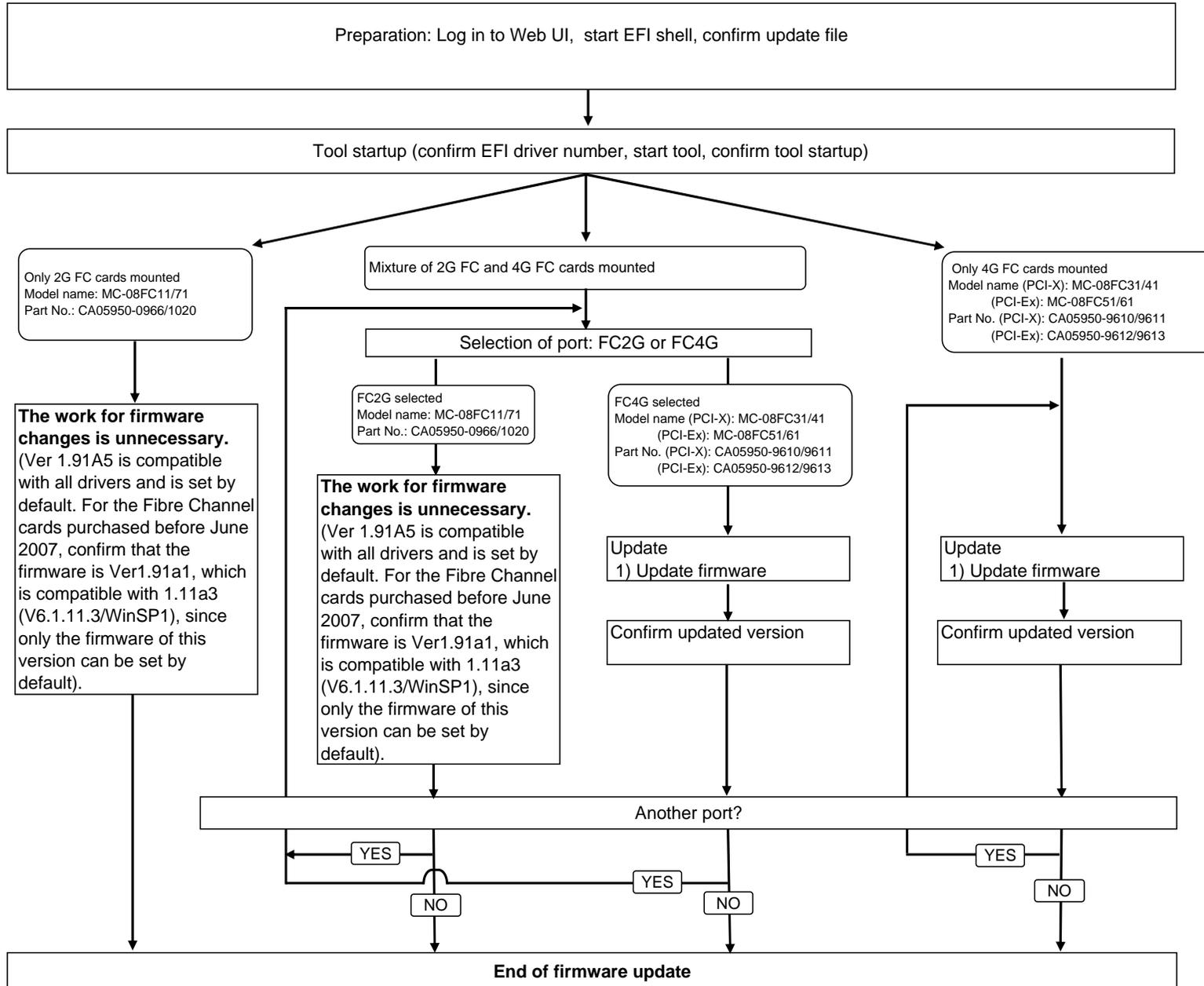
3.2 Required Setup

- (1) The control terminal must be able to perform Web-UI operations through terminal software or through the keyboard and monitor connected to the KVM interface of the PRIMEQUEST main unit.
- (2) Before beginning the work for firmware changes, confirm that the corresponding partition is in the standby state (in which its operation is stopped and only the power to its power supply circuit is still on).
- (3) Firmware is updated with the Firmware CD (C122-E018-XXC2).
 - * Firmware CD(C122-E018-XXC2) is version 16 or later for PRIMEQUEST 420, PRIMEQUEST 480/440, PRIMEQUEST 520 and PRIMEQUEST 580/540.
 - * Firmware CD(C122-E018-XXC2) is version 18 or later for PRIMEQUEST 520A, PRIMEQUEST 580A/540A and PRIMEQUEST 510A.
 - * XX in "C122-E018-XXC2" represents an arbitrary value.
(For example, if XX is 18, it represents Version 18.)

3.3 Notes

- (1) An update tool that can run under the EFI shell is used to change firmware for the Fibre Channel cards.
Confirm the methods for operations in the section titled "Fibre Channel Firmware Update Procedures" and the subsequent section.
- (2) Firmware must be updated for every channel of the mounted Fibre Channel card.
 - Single port channel: MC-08FC11/31/51/71
→ Channels to update: One per Fibre Channel card
 - Dual port channel: MC-08FC41/61
→ Channels to update: Two per Fibre Channel card
- (3) The device names, firmware versions, directory structures, and file names that are described and displayed in screenshots in this manual are examples. When changing firmware, read and interpret this information appropriate to your environment.

3.4 Flow for Updating Fibre Channel Card Firmware



3.5 Fibre Channel Card Firmware Update Procedures

Select work procedure 1 or work procedure 2.

| Item | Section No. | Work procedure 1 | Section No. | Work procedure 2 | Operations | Result and action |
|---|----------------------------------|--|-------------------------------------|--|---|---|
| Preparation | Web-UI operations | | | | | |
| | 3.6.1-1 | Connect to the Web-UI | | | Connect to Web-UI and enter Power Control mode. | |
| | 3.6.1-2 | Boot Control / power-on / selection of [DVD] | | | Perform setting Boot Control, power-on and selecting DVD. | |
| | Confirmation of work terminal | | | | | |
| | Operation through KVM | | Operation through terminal software | | | |
| | | | Console connection procedure | | | Prepare to start work from console screens. |
| | 3.6.1-3 | Start the EFI shell | 3.6.7-1 | Start the EFI shell | Select "EFI Shell [Built-in]" on the EFI startup screen. | |
| 3.6.1-4 | Confirm the file system (fs) | 3.6.7-2 | Confirm the file system (fs) | Confirm the fs number assigned to the DVD-ROM drive. | | |
| 3.6.1-5 | Confirm the Firmware CD | 3.6.7-3 | Confirm the Firmware CD | Move to the assigned fs location. Confirm that the Firmware CD is read by the ls command. | | |
| Tool startup | 3.6.2-1 | Confirm the EFI driver number for the Fibre Channel device | 3.6.8-1 | Confirm the EFI driver number for the Fibre Channel device | Confirm this with the drivers command (-b is the page display option). | |
| | 3.6.2-2 | Enter the command for startup | 3.6.8-2 | Enter the command for startup | Start the tool with the drvcfg command. | |
| | 3.6.2-3 | Confirm startup | 3.6.8-3 | Confirm startup | Confirm startup on the screen. | |
| Update | 3.6.3-1 | Select the adapter to be updated | 3.6.9-1 | Select the adapter to be updated | Select a listed adapter with the arrow keys. Note: Select one for every port of a Dual Port card. | |
| | 3.6.3-2 | Select "Firmware Update" | 3.6.9-2 | Select "Firmware Update" | Select "2. Firmware Update" with the arrow keys, and press [Enter]. | *3 |
| | 3.6.3-3 | Confirm the version number before the update | 3.6.9-3 | Confirm the version number before the update | Confirm the version number at the beginning of the "Firmware" line on the screen. | |
| | 3.6.3-4 | Perform the update | 3.6.9-4 | Perform the update | Specify the directory path and file name of the update file. | *1 |
| | 3.6.3-5 | Complete the update procedure | 3.6.9-5 | Complete the update procedure | Press any key to complete the update process (which is followed by a return to the step in Section 3.6.3-2 or 3.6.9-2). | |
| Confirmation | 3.6.4-1 | Select "Firmware Update" | 3.6.10-1 | Select "Firmware Update" | Select "2. Firmware Update" with the arrow keys, and press [Enter]. | |
| | 3.6.4-2 | Confirm the version number after the update | 3.6.10-2 | Confirm the version number after the update | Confirm the version number at the beginning of the "Firmware" line on the screen. | *2 |
| Work on another adapter | 3.6.5 | Updating another adapter | 3.6.11 | Updating another adapter | Repeat the update work for any associated adapter. Note: Perform an update for every port of a Dual Port card. | |
| Go back in the procedure to Section 3.6.3-2 or 3.6.9-2 to update another adapter. | | | | | | |
| Exiting EFI shell | 3.6.6-1 | Exit the tool | 3.6.12-1 | Exit the tool | Exit the tool after updating all corresponding adapters. | |
| | 3.6.6-2 | Enter "exit" in the EFI shell | 3.6.12-2 | Enter "exit" in the EFI shell | | |
| | 3.6.6-3 | Eject the Firmware CD | 3.6.12-3 | Eject the Firmware CD | Eject the Firmware CD from the KVM DVD-ROM drive. | |
| Terminating Web-UI | Termination of Web-UI connection | | | | | |
| | 3.6.13 | Setting "Power Off" for the partition | | | Set "Power Off" for the partition. | |
| Notes | 3.6.14 | Starting the tool in an environment with various EFI drivers | Same as on left | | | |

*1 Syntax error occurs: Repeat the steps starting from the step in Section 3.6.3-4 or 3.6.9-4.
 Execution error occurs: Repeat the steps starting from the step in Section 3.6.2-2 or 3.6.8-2.
 If the process takes more than one minute, treat it as an execution error since a normal process ends within several seconds.

*2 Unexpected value occurs: Repeat the steps starting from the step in Section 3.6.2-2 or 3.6.8-2.

*3 The file name entered at the step explained in Section 3.6.3-4 or 3.6.9-4 is automatically selected for the firmware update.

3.6 Fibre Channel Card Firmware Update Procedures in Detail

Preparation

3.6.1-1 Connect to the Web-UI

1) Connect to the Web-UI with the following Login URL:

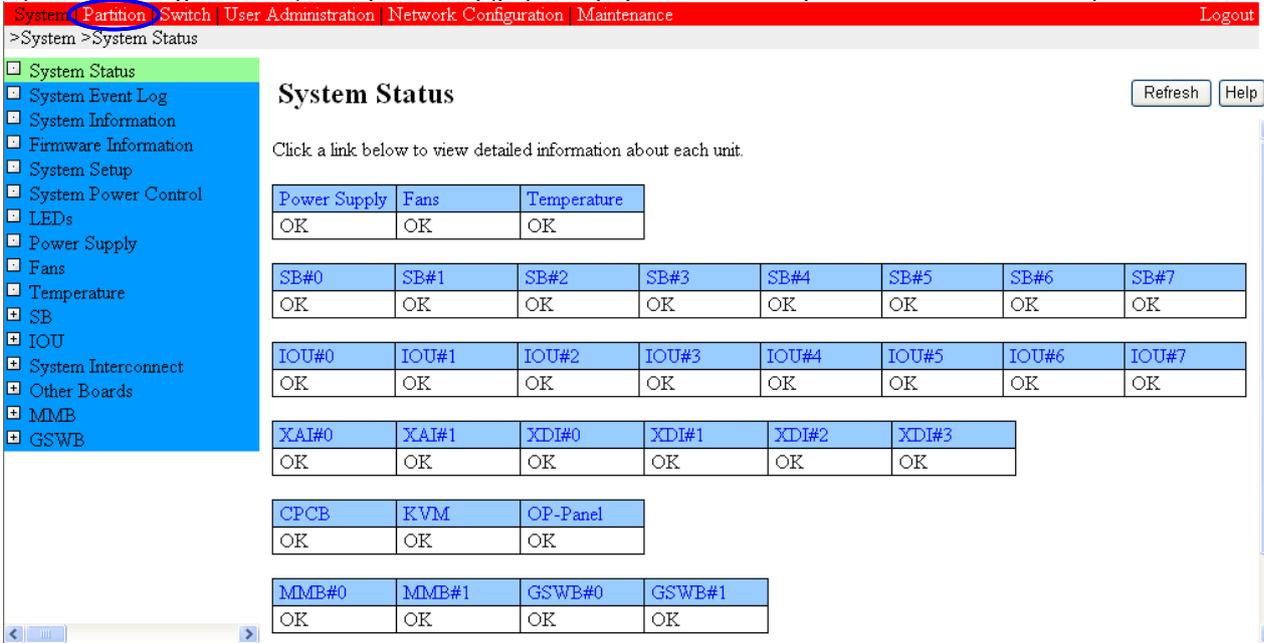
http://<<MMB-IP>>:<<http-port-number>>

Username: Administrator account Password: Administrator account password



Login page (for preparations)

2) On the navigation bar, click [Partition] ([System] - [Power Control] in PRIMEQUEST 510A).



System Status page

3) Go to the Partition > Power Control page (System > Power Control page in PRIMEQUEST 510A), and confirm the information there.

System | Partition | Switch | User Administration | Network Configuration | Maintenance Logout

>Partition >Power Control

Power Control Refresh Help

Select a Power Control option for one or more partitions, then click the Apply button to take effect.

| # | Partition Name | Status | Power Status | System Progress | Power Control | Force Power Off Delay |
|----|----------------|--------|--------------|-----------------|-------------------|--------------------------------|
| 0 | Partition#0 | OK | On | OS Running | (Not specified) ▾ | <input type="checkbox"/> ▾ min |
| 2 | Partition#2 | OK | Standby | Power Off | (Not specified) ▾ | <input type="checkbox"/> ▾ min |
| 3 | Partition#3 | OK | Standby | Power Off | (Not specified) ▾ | <input type="checkbox"/> ▾ min |
| 4 | Partition#4 | OK | Standby | Power Off | (Not specified) ▾ | <input type="checkbox"/> ▾ min |
| 6 | Partition#6 | OK | On | OS Running | (Not specified) ▾ | <input type="checkbox"/> ▾ min |
| 8 | Partition#8 | OK | On | OS Running | (Not specified) ▾ | <input type="checkbox"/> ▾ min |
| 10 | Partition#10 | OK | Standby | Power Off | (Not specified) ▾ | <input type="checkbox"/> ▾ min |
| 12 | Partition#12 | OK | Standby | Power Off | (Not specified) ▾ | <input type="checkbox"/> ▾ min |
| 14 | Partition#14 | OK | On | OS Running | (Not specified) ▾ | <input type="checkbox"/> ▾ min |

Apply Cancel

Partition > Power Control page

*PRIMEQUEST 510A

System | User Administration | Network Configuration | Maintenance Logout

>System >Power Control

Power Control Refresh Help

Select a Power Control option, then click the Apply button to take effect.

| | |
|--------------------------|---|
| Status | OK |
| Power Status | On |
| System Progress | Power Off |
| Power Control | (Not specified) ▾ |
| Force Power Off Delay | <input type="checkbox"/> ▾ min |
| Boot Selector | No Override ▾ Note: The Boot Selector only applies for one system restart. After the system restart, this setting returns to "No Override" automatically. |
| POST(Power On Self Test) | Fast Boot ▾ |

Apply Cancel

System > Power Control page

3.6.1-2 Change the boot control mode

- 1) Select the partition of the Fibre Channel card whose firmware is to be updated. Click [Boot Control]. (In PRIMEQUEST 510A, this procedure is unnecessary.)

System | Partition | Switch | User Administration | Network Configuration | Maintenance Logout

>Partition >Partition#12 >Boot Control

Boot Control

Click the Apply Button to apply all changes.

| | |
|--------------------------|--|
| Boot Selector | No Override Note: The boot Selector only applies for one partition restart. After the partition restart, this setting returns to 'No Override' automatically. |
| POST(Power On Self Test) | Standard Diagnosis |

Apply Cancel

Partition > Boot Control page

- 2) Select a Boot Selector mode.

Set "Force boot into EFI Boot Manager" as the Boot Selector mode, and click <Apply>. (This prevents automatic startup with an arbitrary OS (the one selected by the cursor position) when the Wait Count time (default: 30 seconds) has elapsed on the EFI shell startup screen.)

Note: This "Force boot into EFI Boot Manager" setting for a partition is cleared when the partition is started. It must be set again each time that the Fibre Channel firmware is updated.

System | Partition | Switch | User Administration | Network Configuration | Maintenance Logout

>Partition >Partition#12 >Boot Control

Boot Control

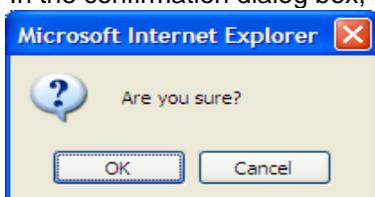
Click the Apply Button to apply all changes.

| | |
|--------------------------|---|
| Boot Selector | Force boot into EFI Boot Manager Note: The boot Selector only applies for one partition restart. After the partition restart, this setting returns to 'No Override' automatically. |
| POST(Power On Self Test) | Standard Diagnosis |

Apply Cancel

Partition > Boot Control page (with the Boot Selector setting)

In the confirmation dialog box, click <OK>.



In the completion dialog box, click <OK>.



- 3) On the Partition > Power Control page (System > Power Control page in PRIMEQUEST 510A), turn on the power to the partition. [Part 1]
On the navigation bar, click [Partition].

System | Partition | Switch | User Administration | Network Configuration | Maintenance | Logout

>Partition >Power Control

- Power Control
- Schedule
- USB/Video/DVD Switch
- Console Redirection Switch
- Partition Configuration
- Split Configuration
- Reserved SB Configuration
- Partition#0
- Partition#2
- Partition#3
- Partition#4
- Partition#6
- Partition#8
- Partition#10
- Partition#12
- Partition#14

Power Control

Select a Power Control option for one or more partitions, then click the Apply button to take effect.

| # | Partition Name | Status | Power Status | System Progress | Power Control | Force Power Off Delay |
|----|----------------|--------|--------------|-----------------|-----------------|------------------------------|
| 0 | Partition#0 | OK | On | OS Running | (Not specified) | <input type="checkbox"/> min |
| 2 | Partition#2 | OK | Standby | Power Off | (Not specified) | <input type="checkbox"/> min |
| 3 | Partition#3 | OK | Standby | Power Off | (Not specified) | <input type="checkbox"/> min |
| 4 | Partition#4 | OK | Standby | Power Off | (Not specified) | <input type="checkbox"/> min |
| 6 | Partition#6 | OK | On | OS Running | (Not specified) | <input type="checkbox"/> min |
| 8 | Partition#8 | OK | On | OS Running | (Not specified) | <input type="checkbox"/> min |
| 10 | Partition#10 | OK | Standby | Power Off | (Not specified) | <input type="checkbox"/> min |
| 12 | Partition#12 | OK | Standby | Power Off | (Not specified) | <input type="checkbox"/> min |
| 14 | Partition#14 | OK | On | OS Running | (Not specified) | <input type="checkbox"/> min |

Apply Cancel

Partition > Power Control page

- 4) On the Partition > Power Control page (System > Power Control page in PRIMEQUEST 510A), turn on the power to the partition. [Part 2]
Set [Power On] in the appropriate Power Control list box, and click <Apply>.

System | Partition | Switch | User Administration | Network Configuration | Maintenance | Logout

>Partition >Power Control

- Power Control
- Schedule
- USB/Video/DVD Switch
- Console Redirection Switch
- Partition Configuration
- Split Configuration
- Reserved SB Configuration
- Partition#0
- Partition#2
- Partition#3
- Partition#4
- Partition#6
- Partition#8
- Partition#10
- Partition#12
- Partition#14

Power Control

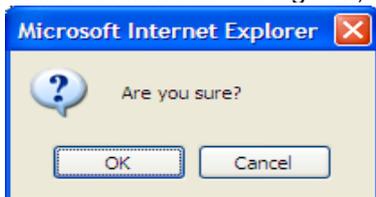
Select a Power Control option for one or more partitions, then click the Apply button to take effect.

| # | Partition Name | Status | Power Status | System Progress | Power Control | Force Power Off Delay |
|----|----------------|--------|--------------|-----------------|-----------------|------------------------------|
| 0 | Partition#0 | OK | On | OS Running | (Not specified) | <input type="checkbox"/> min |
| 2 | Partition#2 | OK | Standby | Power Off | (Not specified) | <input type="checkbox"/> min |
| 3 | Partition#3 | OK | Standby | Power Off | (Not specified) | <input type="checkbox"/> min |
| 4 | Partition#4 | OK | Standby | Power Off | (Not specified) | <input type="checkbox"/> min |
| 6 | Partition#6 | OK | On | OS Running | (Not specified) | <input type="checkbox"/> min |
| 8 | Partition#8 | OK | On | OS Running | (Not specified) | <input type="checkbox"/> min |
| 10 | Partition#10 | OK | Standby | Power Off | (Not specified) | <input type="checkbox"/> min |
| 12 | Partition#12 | OK | Standby | Power Off | Power On | <input type="checkbox"/> min |
| 14 | Partition#14 | OK | On | OS Running | (Not specified) | <input type="checkbox"/> min |

Apply Cancel

Partition > Power Control page ("Power On" set)

In the confirmation dialog box, click <OK>.



5) On the Partition > Power Control page (System > Power Control page in PRIMEQUEST 510A), turn on the power to the partition. [Part 3]

Confirm that the partition has "Power On In Progress" displayed in the System Progress column after "Power On" is set.

System | Partition | Switch | User Administration | Network Configuration | Maintenance Logout

>Partition >Power Control

- Power Control
- Schedule
- USB/Video/DVD Switch
- Console Redirection Switch
- Partition Configuration
- Split Configuration
- Reserved SB Configuration
- Partition#0
- Partition#2
- Partition#3
- Partition#4
- Partition#6
- Partition#8
- Partition#10
- Partition#12
- Partition#14

Power Control

Refresh Help

Select a Power Control option for one or more partitions, then click the Apply button to take effect.

| # | Partition Name | Status | Power Status | System Progress | Power Control | Force Power Off Delay |
|----|----------------|--------|--------------|----------------------|-----------------|------------------------------|
| 0 | Partition#0 | OK | On | OS Running | (Not specified) | <input type="checkbox"/> min |
| 2 | Partition#2 | OK | Standby | Power Off | (Not specified) | <input type="checkbox"/> min |
| 3 | Partition#3 | OK | Standby | Power Off | (Not specified) | <input type="checkbox"/> min |
| 4 | Partition#4 | OK | Standby | Power Off | (Not specified) | <input type="checkbox"/> min |
| 6 | Partition#6 | OK | On | OS Running | (Not specified) | <input type="checkbox"/> min |
| 8 | Partition#8 | OK | On | OS Running | (Not specified) | <input type="checkbox"/> min |
| 10 | Partition#10 | OK | Standby | Power Off | (Not specified) | <input type="checkbox"/> min |
| 12 | Partition#12 | OK | Standby | Power On In Progress | (Not specified) | <input type="checkbox"/> min |
| 14 | Partition#14 | OK | On | OS Running | (Not specified) | <input type="checkbox"/> min |

Apply Cancel

Partition > Power Control page ("Power On" operation started)

6) On the Partition > Power Control page (System > Power Control page in PRIMEQUEST 510A), turn on the power to the partition. [Part 4]

Confirm that the partition has "POST 1094h" displayed finally in the System Progress column after "Power On" is set.

System | Partition | Switch | User Administration | Network Configuration | Maintenance Logout

>Partition >Power Control

- Power Control
- Schedule
- USB/Video/DVD Switch
- Console Redirection Switch
- Partition Configuration
- Split Configuration
- Reserved SB Configuration
- Partition#0
- Partition#2
- Partition#3
- Partition#4
- Partition#6
- Partition#8
- Partition#10
- Partition#12
- Partition#14

Power Control

Refresh Help

Select a Power Control option for one or more partitions, then click the Apply button to take effect.

| # | Partition Name | Status | Power Status | System Progress | Power Control | Force Power Off Delay |
|----|----------------|--------|--------------|-----------------|-----------------|------------------------------|
| 0 | Partition#0 | OK | On | OS Running | (Not specified) | <input type="checkbox"/> min |
| 2 | Partition#2 | OK | Standby | Power Off | (Not specified) | <input type="checkbox"/> min |
| 3 | Partition#3 | OK | Standby | Power Off | (Not specified) | <input type="checkbox"/> min |
| 4 | Partition#4 | OK | Standby | Power Off | (Not specified) | <input type="checkbox"/> min |
| 6 | Partition#6 | OK | On | OS Running | (Not specified) | <input type="checkbox"/> min |
| 8 | Partition#8 | OK | On | OS Running | (Not specified) | <input type="checkbox"/> min |
| 10 | Partition#10 | OK | Standby | Power Off | (Not specified) | <input type="checkbox"/> min |
| 12 | Partition#12 | OK | On | POST 1094h | (Not specified) | <input type="checkbox"/> min |
| 14 | Partition#14 | OK | On | OS Running | (Not specified) | <input type="checkbox"/> min |

Apply Cancel

Partition > Power Control page ("Power On" operation completed)

7) Select [DVD].

On the Partition > USB/Video/DVD Switch page, select the USB/Video/DVD switch for this partition, and click <Apply>.

Never make this change during firmware update processing.

Note: Write down the current setting in order to restore the setting after the firmware update.

(In PRIMEQUEST 510A, this procedure is unnecessary.)

System | Partition | Switch | User Administration | Network Configuration | Maintenance | Logout

>Partition >USB/Video/DVD Switch

Power Control
Schedule
USB/Video/DVD Switch
Console Redirection Switch
Partition Configuration
Split Configuration
Reserved SB Configuration
Partition#0
Partition#2
Partition#3
Partition#4
Partition#6
Partition#8
Partition#10
Partition#12
Partition#14

USB/Video/DVD Switch Help

Select partition to connect USB, Video, or DVD respectively, then click the Apply button to take effect.

| # | Partition Name | Status | Power Status | USB | Video | DVD |
|------|----------------|--------|--------------|----------------------------------|----------------------------------|----------------------------------|
| 0 | Partition#0 | OK | On | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2 | Partition#2 | OK | Standby | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3 | Partition#3 | OK | Standby | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4 | Partition#4 | OK | Standby | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 6 | Partition#6 | OK | On | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 8 | Partition#8 | OK | On | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 10 | Partition#10 | OK | Standby | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 12 | Partition#12 | OK | On | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> |
| 14 | Partition#14 | OK | On | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Free | | | | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

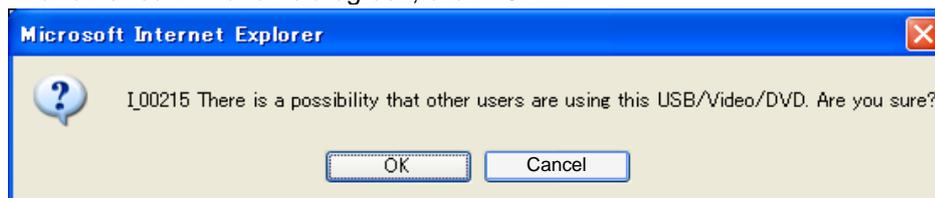
Apply Cancel

Partition > USB/Video/DVD Switch page (DVD switch selection)

In the confirmation dialog box, click <OK>.



In another confirmation dialog box, click <OK>.



In the completion dialog box, click <OK>.



8) Insert the Firmware CD into the DVD-ROM drive.

Preparation (Continued) ** Operation through KVM **

3.6.1-3 Start the EFI shell

From the Boot Option Maintenance menu for EFI displayed on the flat panel display screen, select "EFI Shell [Built-in]," and press the [Enter] key.

"EFI Shell [Built-in]" selected on the terminal software screen

```
EFI Boot Manager ver 1.10 [1.11]

Please select a boot option

Windows Server 2003, Datacenter
EFI Shell [Built-in]
DVD/Acpi (PNP0A03, 0)/Pci (1D|1)/Usb (0, 0)/Usb (1, 0)
Network/Acpi (PNP0A03, 0)/Pci (1E|0)/Pci (8|0)/Mac (000B5D6F801B)
Boot Option Maintenance
Setup Menu

Use ^ and v to change option(s). Use Enter to select an option
```

* Screenshot of the screen (The displayed menu varies depending on the user's settings.)

3.6.1-4 Confirm the file system (fs)

The next screen displayed is as shown below.

Confirm the fsN value assigned to the Firmware CD (here, it is fs0).

```
Loading : EFI Shell [Built-in]
EFI Shell version 1.10 [1.11]
Device mapping table
fs0 : Acpi (PNP0A03, 0)/Pci (1D|1)/Usb (0, 0)/Usb (0, 0)/CDROM (Entry0)/HD (Part1, Sig00000000)
fs1 : Acpi (PNP0A03, 0)/Pci (1|1)/Pci (0|0)/Pci (1|0)/Scsi (Pun4, Lun0)/HD (Part1, Sig 41C4C48E-7253-4942-9F50-5547C7B1E6C4)
blk0 : Acpi (PNP0A03, 0)/Pci (1D|1)/Usb (0, 0)/Usb (0, 0)
blk1 : Acpi (PNP0A03, 0)/Pci (1D|1)/Usb (0, 0)/Usb (0, 0)/CDROM (Entry0)
*** : *****
blk6 : Acpi (PNP0A03, 0)/Pci (1|1)/Pci (0|0)/Pci (1|0)/Scsi (Pun4, Lun0)/HD (Part3, Sig 715930EE-C30D-481F-BC83-83F17A640F30)

Shell >
```

If the fs number of the CD is not found:

Enter the following command from the EFI shell to reconnect the device.

```
shell> reconnect -r[Enter]
```

Upon the return to the EFI shell screen, enter the following command to display the device map again, and confirm the fs number assigned to the CD:

```
shell> map -r[Enter]
```

3.6.1-5 Confirm the Firmware CD

Move to the location indicated by the fs number assigned to the CD. Confirm that the CD is read normally by the ls command.

```
Shell>fs0:
fs0:\>ls
Directory of: fs0:¥

03/10/08 01:42a          4,224  README. ja_JP. EUC. txt
03/10/08 01:42a          4,350  README. ja_JP. SJIS. txt
03/10/08 01:42a          4,922  README. ja_JP. UTF-8. txt
03/10/08 01:42a          4,596  README. txt
03/24/08 03:54p <DIR>          2,048  PQ420
03/24/08 03:55p <DIR>          2,048  PQ480_440
03/24/08 03:55p <DIR>          2,048  PQ510A
03/24/08 03:56p <DIR>          2,048  PQ520
03/24/08 03:56p <DIR>          2,048  PQ520A_520X
03/24/08 03:57p <DIR>          2,048  PQ580_540
03/24/08 04:04p <DIR>          2,048  PQ580A_540A
          4 File(s)          18,092 bytes
          7 Dir(s)
```

Tool Startup

3.6.2-1 Confirm the EFI driver number for the Fibre Channel device

```
fs0:\> drivers -b
          T  D
D          Y C I
R          P F A
V  VERSION  E G G #D #C DRIVER NAME          IMAGE NAME
== ===== = = = == == =====
18 00000010 B - - 5 42 Pci Bus Driver
** *****
** *****
22 00031131 D X X 2 - Emulex SCSI Pass Thru Driver  PciRom Seg=000000
** ***** *
```

Confirm the numerical value NN at the beginning of the "Emulex SCSI Pass Thru Driver" line (here, it is 22).

Notes:

1. The value in the IMAGE NAME column varies depending on the EFI Driver version.
2. If "Emulex SCSI Pass Thru Driver" is displayed on multiple lines with different version numbers, see Section 3.6.14, "Starting the tool in an environment with various EFI drivers," and follow the steps in it.

3.6.2-2 Enter the command for startup

```
fs0:\> drvcfg -s 22
```

The number entered after "-s" is the numerical value (NN) confirmed in the step explained in Section 3.6.2-1.

3.6.2-3 Confirm startup

Based on the screen displayed for startup, such as shown below, confirm that the tool has started.

```
-----  
Emulex Fibre Channel EFI-Bios Utility, Ver: 3.11x1  
-----  
  
Emulex Adapters in this System: 001 thru002  
  
001: LP11000    PCI-X  133MHz Bus#: 0F Dev#: 01 Func#: 00  
002: LP11000    PCI-X  133MHz Bus#: 10 Dev#: 01 Func#: 00
```

Note: In the above screenshot, the system is equipped with two 4G (Single Port) Fibre Channel adapter cards. Each adapter card is displayed with "Func#:00."
If the system is equipped with a 4G (Dual Port) Fibre Channel adapter card, the card is displayed on two lines, with "Func#00" on the first (top) line and "Func#:01" on the second (bottom) line.

Update

3.6.3-1 Select the adapter to be updated

If the card is a Dual Port card, apply the update to every port (Func#: xx) displayed. Select the adapter with the up (↑) and down (↓) arrow keys, and press [Enter].

```
-----  
Emulex Fibre Channel EFI-Bios Utility, Ver: 3.11x1  
-----  
  
Emulex Adapters in this System: 001 thru002  
  
001: LP11000    PCI-X  133MHz Bus#: 0F Dev#: 01 Func#: 00  
002: LP11000    PCI-X  133MHz Bus#: 10 Dev#: 01 Func#: 00
```

Note: Each page of the screen displays lines for up to eight ports. To change the page for a system that has nine or more ports, use the right (<-->) and left (-->) arrow keys.

3.6.3-2 Select "Firmware Update"

```
-----  
Emulex FC EFI-Bios Utility, Ver: 3.11x1  
-----  
  
1. Setup Utility  
2. Firmware Update
```

Select "2. Firmware Update" with the up (↑) and down (↓) arrow keys, and press [Enter]. The following screen is displayed.

```
-----  
Emulex FC EFI-Bios Firmware Update Utility, Ver: 3.11x1  
-----  
001: LP11000    PCI-X  133MHz Bus#: 0F Dev#: 01 Func#: 00  
EFI Boot : **3.11X1          SLI - 1   : B1D2.10A7  
Firmware  : **2.10A7         SLI - 2   : B2D2.10A7  
Port Name : 10000000C945CA68 Kernel   : 1.40A3  
-----  
Directory Path : \
```

3.6.3-3 Confirm the version number before the update

Note: The first two characters in each version number vary depending on the adapter card. The characters are represented by "***" in the following explanation.

**Confirm the version number on the "Firmware" line before the update.
Number displayed at "Firmware" for confirmation: **2.10A7 (in this example)**

3.6.3-4 Perform the update

Specify the directory path (fs* is unnecessary), and press [Enter]. Specify the file name on the next line, and press [Enter].

If the specified path is incorrect, press [Enter] to go back to that line, and repeat this operation.

For the folder hierarchy of each adapter card, see Appendix, "Lists of the Folder Hierarchy on the Firmware CD".

```
-----
Emulex FC EFI-Bios Firmware Update Utility, Ver: 3.11x1
-----
001: LP11000    PCI-X 133MHz Bus#: 0F Dev#: 01 Func#: 00
      EFI Boot : **3.11X1          SLI - 1   : B1D2.10A7
      Firmware : **2.10A7         SLI - 2   : B2D2.10A7
      Port Name : 10000000C945CA68 Kernel   : 1.40A3
-----
Directry Path : \PQ580A_540A\Emulex_FC\MC08FC31\Firm_2.70A5
Filename      : bd270a5.all
```

<Update the firmware>

The following screen is displayed. The update is completed.

```
Directry Path : \PQ580A_540A\Emulex_FC\MC08FC31\Firm_2.70A5
Filename      : bd270a5.all
File Open     : Done
Validate Adapter: Done
Flash Erase   : Done
Flash Program : Done
WakeUp Parameter: Updated
Press any Key to Return to Previous Menu ...
```

3.6.3-5 Complete the update procedure

Press any key to return to the screen displayed for the step in Section 3.6.3-2.

Confirmation

3.6.4-1 Select "Firmware Update"

```
-----  
Emulex FC EFI-Bios Utility, Ver: 3.11x1  
-----  
1.Setup Utility  
2.Firmware Update
```

Select "2. Firmware Update" with the up (↑) and down (↓) arrow keys, and press [Enter]. The following screen is displayed.

```
-----  
Emulex FC EFI-Bios Firmware Update Utility, Ver: 3.11x1  
-----  
001: LP11000 PCI-X 133MHz Bus#: 0F Dev#: 01 Func#: 00  
EFI Boot : **3.11X1 SLI - 1 : B1D2.70A5  
Firmware : **2.70A5 SLI - 2 : B2D2.70A5  
Port Name : 10000000C945CA68 Kernel : 1.40A3  
-----  
Directory Path :
```

3.6.4-2 Confirm the version number after the update

Note: The first two characters in each version number vary depending on the adapter card. The characters are represented by "***" in the following explanation. For details, see the rightmost column in the tables in Appendix, "Lists of the Folder Hierarchy on the Firmware CD".

Confirm the version number on the "Firmware" line.
Number displayed at "Firmware" for confirmation: **2.70A5 (in this example)

Upon completing confirmation of the final version number displayed for the update on the screen, press [Enter] with "Directory Path" and "Filename" left blank.

```
-----  
Emulex FC EFI-Bios Firmware Update Utility, Ver: 3.11x1  
-----  
001: LP11000 PCI-X 133MHz Bus#: 0F Dev#: 01 Func#: 00  
EFI Boot : **3.11X1 SLI - 1 : B1D2.70A5  
Firmware : **2.70A5 SLI - 2 : B2D2.70A5  
Port Name : 10000000C945CA68 Kernel : 1.40A3  
-----  
Directory Path : (blank)  
Filename : (blank)
```

The following screen is displayed.

```
Directory Path :  
Filename : No Filename Entered.  
  
Press any Key to Return to Previous Menu ...
```

Press any key to return to the screen displayed for the step in Section 3.6.3-2.

```
-----  
Emulex FC EFI-Bios Utility, Ver: 3.11x1  
-----  
1.Setup Utility  
2.Firmware Update
```

Press the [Esc] key to return to the screen displayed in the step in Section 3.6.2-3.

```
-----  
Emulex Fibre Channel EFI-Bios Utility, Ver: 3.11x1  
-----  
  
Emulex Adapters in this System : 001 thru002  
  
001: LP11000      PCI-X  133MHz Bus#: 0F Dev#: 01 Func#: 00  
002: LP11000      PCI-X  133MHz Bus#: 10 Dev#: 01 Func#: 00
```

Updating another adapter

Note: If the card is a Dual Port card, perform an update for the other port.

3.6.5 Updating another adapter

If adapters to be updated remain, select it with the up (↑) and down (↓) arrow keys, and press [Enter].

```
-----  
Emulex Fibre Channel EFI-Bios Utility, Ver: 3.11x1  
-----  
  
Emulex Adapters in this System : 001 thru002  
  
001: LP11000      PCI-X  133MHz Bus#: 0F Dev#: 01 Func#: 00  
002: LP11000      PCI-X  133MHz Bus#: 10 Dev#: 01 Func#: 00
```

The screen returns to that shown in the step in Section 3.6.3-2.

Exiting the EFI Shell

3.6.6-1 Exit the tool

Press [Enter] with "Directory Path" and "Filename" left blank.

```
-----  
Emulex Fibre Channel EFI-Bios Utility, Ver: 3.11x1  
-----  
  
Emulex Adapters in this System: 001 thru002  
  
001: LP11000    PCI-X  133MHz Bus#: 0F Dev#: 01 Func#: 00  
002: LP11000    PCI-X  133MHz Bus#: 10 Dev#: 01 Func#: 00
```

The following screen is displayed.

```
Directory Path  : .  
Filename       : No Filename Entered.  
  
Press any Key to Return to Previous Menu ...
```

Press any key to return to the screen displayed for the step in Section 3.6.3-2.

```
-----  
Emulex FC EFI-Bios Utility, Ver: 3.11x1  
-----  
  
1.Setup Utility  
2.Firmware Update
```

Press the [Esc] key to return to the screen displayed for the step in Section 3.6.3-1.

```
-----  
Emulex Fibre Channel EFI-Bios Utility, Ver: 3.11x1  
-----  
  
Emulex Adapters in this System: 001 thru002  
  
001: LP11000    PCI-X  133MHz Bus#: 0F Dev#: 01 Func#: 00  
002: LP11000    PCI-X  133MHz Bus#: 10 Dev#: 01 Func#: 00
```

Press the [Esc] key again to return to the EFI shell (exiting the tool).

```
fs0:\>
```

3.6.6-2 Enter "exit" in the EFI shell

Enter "exit" in the EFI shell to return to the EFI Boot Manager screen (the following screen).

```
EFI Boot Manager ver 1.10 [1.11]  
  
Please select a boot option  
  
Windows Server 2003, Datacenter  
EFI Shell [Built-in]  
DVD/Acpi (PNP0A03, 0)/Pci (1D|1)/Usb (0, 0)/Usb (1, 0)  
Network/Acpi (PNP0A03, 0)/Pci (1E|0)/Pci (8|0)/Mac (000B5D6F801B)  
Boot Option Maintenance Menu  
Setup Menu  
  
Use ^ and v to change option(s). Use Enter to select an option
```

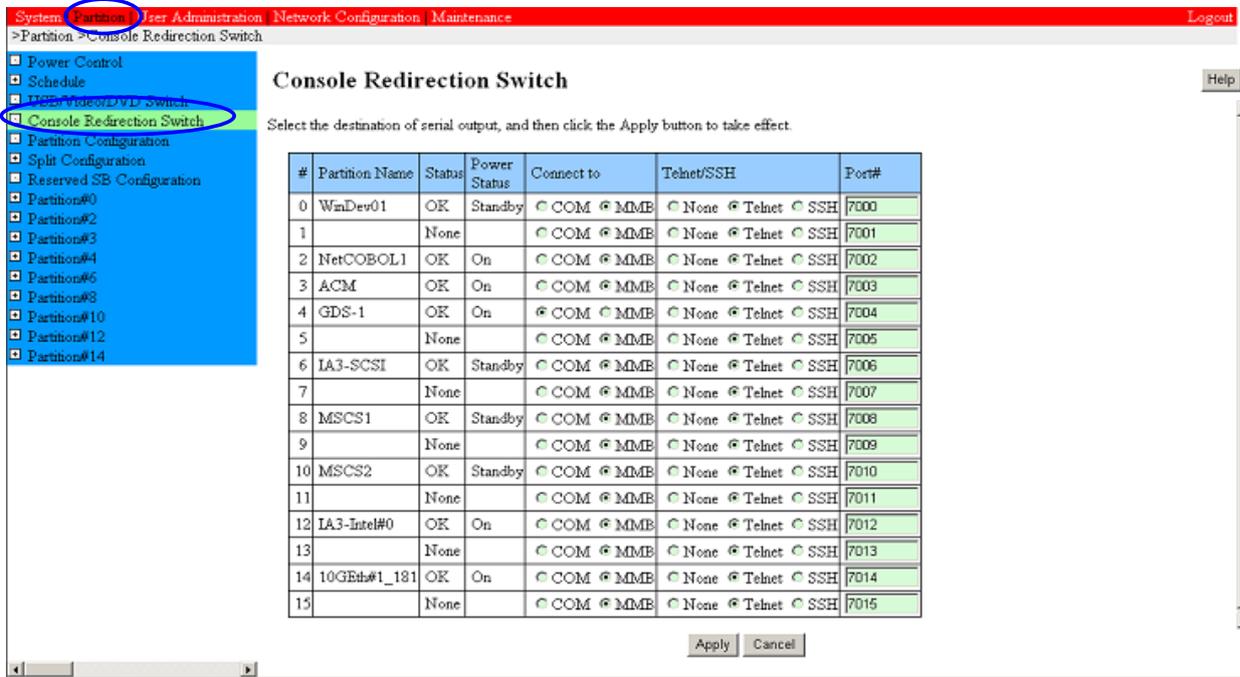
3.6.6-3 Eject the Firmware CD

**Eject the Firmware CD from the KVM DVD-ROM drive.
Exit from the terminal software screen.**

Preparation (Continued) ** Operation through Terminal Software **

<Connect to the console>

- 1) Set the Boot Selector mode with the Web-UI. (For details of this step, see "Preparation.")
- 2) <MMB operation> From the menu, select [Partition] --> [Console Redirection Switch]
 (In PRIMEQUEST 510A, [System] --> [Console Redirection] --> [Console Redirection Switch])
 to display the Console Redirection Switch page, and set [MMB] under "Connect to" for the partition.
 (When you have changed it, click <Apply>.)



- 3) Start the terminal software.

When it connects with Telnet,

Set IP address : Set the virtual IP address of MMB

Set TCP port : Set the port number (7000~) for each partition

When it connects with SSH, specify SSH Version2 (SSH2).

Start a console by the above operation.

login: CE account

Password: CE account password

Terminal size: 80x24

3.6.7-1 Start the EFI shell

From the Boot Option Maintenance menu for EFI displayed in the terminal software window, select "EFI Shell [Built-in]," and press the [Enter] key.

"EFI Shell [Built-in]" selected in the terminal software window

```
EFI Boot Manager ver 1.10 [1.13]
Please select a boot option

Windows Server 2008, Datacenter
EFI Shell [Built-in]
DVD/Acpi(PNP0A03,0)/Pci(1D|1)/Usb(0, 0)/Usb(1, 0)
Network/Acpi(PNP0A03,0)/Pci(1E|0)/Pci(8|0)/Mac(000B5D6E01BF)
Boot Option Maintenance Menu
Setup Menu

Use ^ and v to change option(s). Use Enter to select an option.
```

* Screenshot of the window (The displayed menu varies depending on the user's settings.)

3.6.7-2 Confirm the file system (fs)

The next window displayed is as shown below.

Confirm the fsN value assigned to the Firmware CD (here, it is fs0).

```
Loading.: EFI Shell [Built-in]
EFI Shell version 1.10 [1.13]
Device mapping table
fs0 : Acpi(PNP0A03,0)/Pci(1D|1)/Usb(0, 0)/Usb(1, 0)/CDROM(Entry0)/HD(Part1,Signature00000000)
fs1 : Acpi(PNP0A03,0)/Pci(F|1)/Pci(0|2)/Pci(1|0)/Scsi(Pun0,Lun0)/HD(Part1,SignatureDEEFD388-C5E0-463F-BE91-14C2B48424BA)
blk0 : Acpi(PNP0A03,0)/Pci(1D|1)/Usb(0, 0)/Usb(1, 0)
blk1 : Acpi(PNP0A03,0)/Pci(1D|1)/Usb(0, 0)/Usb(1, 0)/CDROM(Entry0)
blk2 : Acpi(PNP0A03,0)/Pci(1D|1)/Usb(0, 0)/Usb(1, 0)/CDROM(Entry0)/HD(Part1,Signature00000000)
blk3 : Acpi(PNP0A03,0)/Pci(F|1)/Pci(0|2)/Pci(1|0)/Scsi(Pun0,Lun0)
blk4 : Acpi(PNP0A03,0)/Pci(F|1)/Pci(0|2)/Pci(1|0)/Scsi(Pun0,Lun0)/HD(Part1,SignatureDEEFD388-C5E0-463F-BE91-14C2B48424BA)
blk5 : Acpi(PNP0A03,0)/Pci(F|1)/Pci(0|2)/Pci(1|0)/Scsi(Pun0,Lun0)/HD(Part2,SignatureA8E787F6-F0AE-4EB7-8820-6A82F367C6D0)
blk6 : Acpi(PNP0A03,0)/Pci(F|1)/Pci(0|2)/Pci(1|0)/Scsi(Pun0,Lun0)/HD(Part3,SignatureDC040D9A-9AA1-48B4-83CB-5801C2146A65)
blk7 : Acpi(PNP0A03,0)/Pci(F|1)/Pci(0|2)/Pci(1|0)/Scsi(Pun0,Lun0)/HD(Part4,SignatureBD728977-81FA-42DF-811F-B67DBF89B9B2)
Shell>
Shell>
Shell>
Shell>
```

If the fs number of the CD is not found:

Enter the following command from the EFI shell to reconnect the device.

```
shell> reconnect -r[Enter]
```

Upon the return to the EFI shell screen, enter the following command to display the device map again, and confirm the fs number assigned to the CD:

```
shell> map -r[Enter]
```

3.6.7-3 Confirm the firmware CD

Move to the location indicated by the fs number assigned to the CD. Confirm that the CD is read normally by the ls command.

```
fs0:\> ls
Directory of: fs0:

03/10/08 01:42a      4,224 README.ja_JP.EUC.txt
03/10/08 01:42a      4,350 README.ja_JP.SJIS.txt
03/10/08 01:42a      4,922 README.ja_JP.UTF-8.txt
03/10/08 01:42a      4,596 README.txt
03/24/08 03:54p <DIR>      2,048 PQ420
03/24/08 03:55p <DIR>      2,048 PQ480_440
03/24/08 03:55p <DIR>      2,048 PQ510A
03/24/08 03:56p <DIR>      2,048 PQ520
03/24/08 03:56p <DIR>      2,048 PQ520A_520X
03/24/08 03:57p <DIR>      2,048 PQ580_540
03/24/08 04:04p <DIR>      2,048 PQ580A_540A
      4 File(s)      18,092 bytes
      7 Dir(s)
```

```
fs0:\>
fs0:\>
fs0:\>
fs0:\>
fs0:\>
fs0:\>
```

Tool Startup

3.6.8-1 Confirm the EFI driver number for the Fibre Channel device

Command: drivers -b

```
fs0:\> drivers -b
=====
D  T  D
R  Y  C  D
V  P  F  A
V  VERSION  E  G  G  #D  #C  DRIVER NAME  IMAGE NAME
=====
00D 00000010 B - - 2 38 PCI Bus Driver PciBus
00F 00000010 D - - 1 - PC-AT ISA Device Enumeration Driver PcatIsaAcpi
010 00000010 B - - 1 2 ISA Bus Driver IsaBus
011 00000010 B - - 1 1 ISA Serial Driver IsaSerial
013 00000119 D - - 1 - ATI Rage XL UGA Driver XL_IPF_119.efi
014 00000010 D - - 1 - UGA Console Driver GraphicsConsole
015 00000010 D - - 3 - Usb Uhci Driver UsbUhci
016 00000010 B - - 1 1 Serial Terminal Driver Terminal
017 00000010 D - - 2 - Platform Console Management Driver ConPlatform
018 00000010 D - - 2 - Platform Console Management Driver ConPlatform
019 00000010 B - - 2 2 Console Splitter Driver ConSplitter
01A 00000010 B - - 1 1 Console Splitter Driver ConSplitter
01B 00000010 B - - 2 2 Console Splitter Driver ConSplitter
01C 00000010 B - - 2 2 Console Splitter Driver ConSplitter
020 00000010 B - - 3 6 USB Bus Driver UsbBus
021 00000010 D - - 1 - Usb Keyboard Driver UsbKeyboard
022 00031131 D X X 2 - Emulex SCSI Pass Thru Driver PciRom Seg=000000
035 00000010 D - - 1 - Generic USB Mass Storage Driver UsbMassStorage
=====
```

Confirm the numerical value NN at the beginning of the "Emulex SCSI Pass Thru Driver" line (here, it is 22).

Notes:

1. The value in the IMAGE NAME column varies depending on the EFI Driver version.
2. If "Emulex SCSI Pass Thru Driver" is displayed on multiple lines with different version numbers, see Section 3.6.14, "Starting the tool in an environment with various EFI drivers," and follow the steps in it.

3.6.8-2 Enter the command for startup

Command: drvcfg -s 22

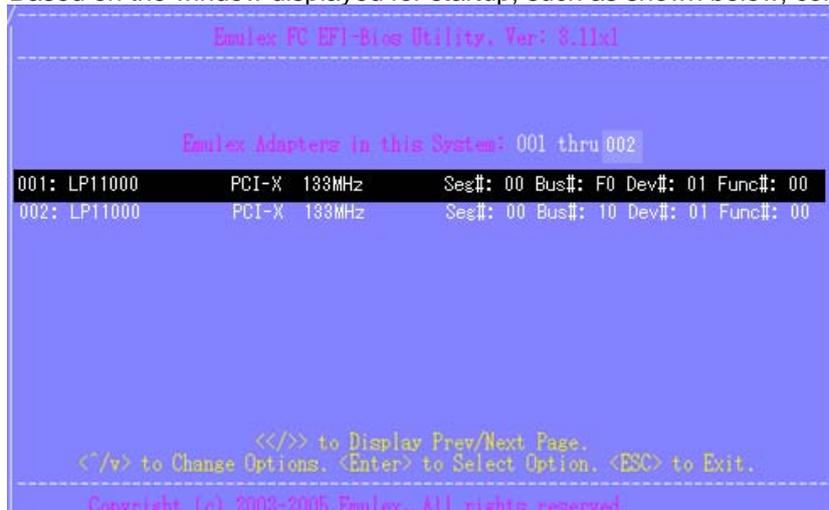
```
019 00000010 B - - 2 2 Console Splitter Driver ConSplitter
01A 00000010 B - - 1 1 Console Splitter Driver ConSplitter
01B 00000010 B - - 2 2 Console Splitter Driver ConSplitter
01C 00000010 B - - 2 2 Console Splitter Driver ConSplitter
020 00000010 B - - 3 6 USB Bus Driver UsbBus
021 00000010 D - - 1 - Usb Keyboard Driver UsbKeyboard
022 00031131 D X X 2 - Emulex SCSI Pass Thru Driver PciRom Seg=000000
035 00000010 D - - 1 - Generic USB Mass Storage Driver UsbMassStorage
Press ENTER to continue, q to exit:
036 00000010 D - - 1 - Usb Bot Mass Storage Driver UsbBot
037 00000010 ? - - - - Usb Cbi1 Mass Storage Driver UsbCbi1
038 00000010 ? - - - - Usb Cbi0 Mass Storage Driver UsbCbi0
039 00000010 D - - 2 - Generic Disk I/O Driver DiskIo
03A 00000010 B - - 1 1 Partition Driver(MBR/GPT/El Torito) Partition
03B 00000010 D - - 1 - FAT File System Driver Fat
03C 00000010 B - - 2 2 Intel(R) PRO 100 UEFI Driver Undi
03D 00000010 D - - 4 - Simple Network Protocol Driver Snp3264
03E 00000010 D - - 4 - PXE Base Code Driver PxeBc
03F 00000010 D - - 4 - PXE DHCPv4 Driver PxeDhcp4
040 00000010 D - - 1 - Usb Mouse Driver UsbMouse
042 01050000 B X X 2 1 LSI Logic Fusion MPT Driver lsimptfw.efi
046 00070700 B X X 2 2 Broadcom Gigabit Ethernet Driver b57undi64.efi

fs0:\> drvcfg -s 22
```

The number entered after "-s" is the numerical value (NN) confirmed in the in the step explained in Section 3.6.8-1.

3.6.8-3 Confirm startup

Based on the window displayed for startup, such as shown below, confirm that the tool has started.



Note: In the above screenshot, the system is equipped with two 4G (Single Port) Fibre Channel adapter cards. Each adapter card is displayed with "Func#:00."

If the system is equipped with a 4G (Dual Port) Fibre Channel adapter card, the card is displayed on two lines, with "Func#00" on the first (top) line and "Func#:01" on the second (bottom) line.

Update

3.6.9-1 Select the adapter to be updated

If the card is a Dual Port card, apply the update to every port (Func#: xx) displayed. Select the adapter with the up (↑) and down (↓) arrow keys, and press [Enter].

```
Emulex FC EFI-Bios Utility, Ver: 3.11x1
-----
Emulex Adapters in this System: 001 thru 002
001: LP11000      PCI-X 133MHz      Seg#: 00 Bus#: F0 Dev#: 01 Func#: 00
002: LP11000      PCI-X 133MHz      Seg#: 00 Bus#: 10 Dev#: 01 Func#: 00
-----
          <</>> to Display Prev/Next Page.
    <~/v> to Change Options. <Enter> to Select Option. <ESC> to Exit.
-----
Copyright (c) 2003-2005 Emulex. All rights reserved.
```

Note: Each page of the window displays lines for up to eight ports. To change the page for a system that has nine or more ports, use the right (<--) and left (-->) arrow keys.

3.6.9-2 Select "Firmware Update"

Select "2. Firmware Update" with the up (↑) and down (↓) arrow keys, and press [Enter].

```
Emulex FC EFI-Bios Utility, Ver: 3.11x1
-----
001: LP11000      PCI-X 133MHz      Seg#: 00 Bus#: F0 Dev#: 01 Func#: 00
      HBA Status: Ready      Boot Bios : Enabled
      EFI Boot : BE3.11X1     Firmware  : BS2.10A7
-----
          1. Setup Utility
          2. Firmware Update
-----
    <~/v> to Change Options. <Enter> to Select Option. <ESC> to Prev Menu.
-----
Copyright (c) 2003-2005 Emulex. All rights reserved.
```

The following window is displayed.

```
Emulex FC EFI-Bios Firmware Update Utility, Ver: 3.11x1
-----
001: LP11000      PCI-X 133MHz      Seg#: 00 Bus#: F0 Dev#: 01 Func#: 00
      EFI Boot  : **3.11X1      SLI - 1  : B1D2.10A7
      Firmware : **2.10A7      SLI - 2  : B2D2.10A7
      Port Name : 10000000C93F7A99 Kernel   : 1.40A3
-----

      Directory Path      :

-----
Copyright (c) 2003-2005 Emulex. All rights reserved.
```

3.6.9-3 Confirm the version number before the update

Note: The first two characters in each version number vary depending on the adapter card. The characters are represented by "*" in the following explanation.

Confirm the version number on the "Firmware" line before the update.
Number displayed at "Firmware" for confirmation: **2.10A7 (in this example)

3.6.9-4 Perform the update

Specify the directory path (fs* is unnecessary), and press [Enter]. Specify the file name on the next line, and press [Enter].

If the specified path is incorrect, press [Enter] to go back to that line, and repeat this operation.

For the folder hierarchy of each adapter card, see Appendix, "Lists of the Folder Hierarchy on the Firmware CD".

<Firmware update>

```
Emulex FC EFI-Bios Firmware Update Utility, Ver: 3.11x1
-----
001: LP11000      PCI-X 133MHz      Seg#: 00 Bus#: F0 Dev#: 01 Func#: 00
      EFI Boot  : BE3.11X1      SLI - 1  : B1D2.10A7
      Firmware : BS2.10A7      SLI - 2  : B2D2.10A7
      Port Name : 10000000C93F7A99 Kernel   : 1.40A3
-----

      Directory Path      : \\PQ580A340A\Emulex_FC\MC08\FC3\Firm_2.70A3
      Filename           : b027003.atl
-----

Copyright (c) 2003-2005 Emulex. All rights reserved.
```

<Update the firmware>

The following window is displayed. The update is completed.

```
Emulex FC EFI-Bios Firmware Update Utility, Ver: 3.11x1
-----
001: LPI1000      PCI-X 133MHz      Seg#: 00 Bus#: F0 Dev#: 01 Func#: 00
      EFI Boot : BE3.11X1      SLI - 1 : B1D2.10A7
      Firmware : BS2.10A7      SLI - 2 : B2D2.10A7
      Port Name : 10000000C93F7A99 Kernel : 1.40A3
-----

Directory Path      : \PDS80A_540A\Emulex_FC\MC08FC31\Firm_2_70A5
Filename           : bd270a5.a11
File Open          : Done.
Validate Adapter   : Done.
Flash Erase       : Done.
Flash Program     : Done.
WakeUp Parameter  : Updated.

Press any Key to Return to Previous Menu ...

-----
Copyright (c) 2003-2005 Emulex. All rights reserved.
```

3.6.9-5 Complete the update procedure

Press any key to return to the window displayed for the step in Section 3.6.9-2.

Confirmation

3.6.10-1 Select "Firmware Update"

Select "2. Firmware Update" with the up (↑) and down (↓) arrow keys, and press [Enter].

```
Emulex FC EFI-Bios Utility, Ver: 3.11x1
-----
001: LP11000      PCI-X 133MHz      Seg#: 00 Bus#: F0 Dev#: 01 Func#: 00
      HBA Status: Ready      Boot Bios : Enabled
      EFI Boot : BE3.11X1    Firmware  : BS2.70A5
-----

1. Setup Utility
2. Firmware Update

<^/v> to Change Options. <Enter> to Select Option. <ESC> to Prev Menu.
Copyright (c) 2003-2005 Emulex. All rights reserved.
```

The following window is displayed.

```
Emulex FC EFI-Bios Firmware Update Utility, Ver: 3.11x1
-----
001: LP11000      PCI-X 133MHz      Seg#: 00 Bus#: F0 Dev#: 01 Func#: 00
      EFI Boot : ***3.11X1    SLI - 1 : B1D2.70A5
      Firmware : **2.70A5    SLI - 2 : B2D2.70A5
      Port Name : 10000000C93F7A99 Kernel : 1.40A3
-----

Directory Path      :

Copyright (c) 2003-2005 Emulex. All rights reserved.
```

3.6.10-2 Confirm the version number after the update

Note: The first two characters in each version number vary depending on the adapter card.

The characters are represented by "***" in the following explanation.

For details, see the rightmost column in the tables in Appendix, "Lists of the Folder Hierarchy on the Firmware CD".

**Confirm the version number on the "Firmware" line.
Number displayed at "Firmware" for confirmation: **2.70A5 (in this example)**

Upon completing confirmation of the final version number displayed for the update in the window, press [Enter] with "Directory Path" and "Filename" left blank. The following window is displayed.

```
-----  
Emulex FC EFI-Bios Firmware Update Utility, Ver: 3.11x1  
-----  
001: LP11000      PCI-X 133MHz      Seg#: 00 Bus#: F0 Dev#: 01 Func#: 00  
      EFI Boot : **3.11X1      SLI - 1 : B1D2.70A5  
      Firmware : **2.70A5     SLI - 2 : B1D2.70A5  
      Port Name : 10000000C93F7A99 Kernel : 1.40A3  
-----  
  
      Directory Path :  
      Filename      : No Filename Entered.  
  
  
  
  
  
  
  
  
  
  
Press any Key to Return to Previous Menu ...  
-----  
Copyright (c) 2003-2005 Emulex. All rights reserved.
```

Press any key to return to the window displayed for the step in Section 3.6.9-2.

```
-----  
Emulex FC EFI-Bios Utility, Ver: 3.11x1  
-----  
001: LP11000      PCI-X 133MHz      Seg#: 00 Bus#: F0 Dev#: 01 Func#: 00  
      HBA Status: Ready      Boot Bios : Enabled  
      EFI Boot : BE3.11X1    Firmware  : BS2.70A5  
-----  
  
  
  
  
  
  
  
  
  
  
1. Setup Utility  
2. Firmware Update  
  
  
  
  
  
  
  
  
  
  
<^/v> to Change Options, <Enter> to Select Option, <ESC> to Prev Menu.  
-----  
Copyright (c) 2003-2005 Emulex. All rights reserved.
```

Updating another adapter

Note: If the card is a Dual Port card, perform an update for the other port.

3.6.11 Updating another adapter

Press the [Esc] key to return to the window displayed for the step in Section 3.6.9-1.

```
Emulex FC EFI-Bios Utility, Ver: 3.11x1
-----
Emulex Adapters in this System: 001 thru 002
001: LP11000      PCI-X  133MHz      Seg#: 00 Bus#: F0 Dev#: 01 Func#: 00
002: LP11000      PCI-X  133MHz      Seg#: 00 Bus#: 10 Dev#: 01 Func#: 00
-----
<</>> to Display Prev/Next Page.
<~/v> to Change Options. <Enter> to Select Option. <ESC> to Exit.
-----
Copyright (c) 2003-2005 Emulex. All rights reserved.
```

If adapters to be updated remain, select it with the up (↑) and down (↓) arrow keys, and press [Enter].

```
Emulex FC EFI-Bios Utility, Ver: 3.11x1
-----
Emulex Adapters in this System: 001 thru 002
001: LP11000      PCI-X  133MHz      Seg#: 00 Bus#: F0 Dev#: 01 Func#: 00
002: LP11000      PCI-X  133MHz      Seg#: 00 Bus#: 10 Dev#: 01 Func#: 00
-----
<</>> to Display Prev/Next Page.
<~/v> to Change Options. <Enter> to Select Option. <ESC> to Exit.
-----
Copyright (c) 2003-2005 Emulex. All rights reserved.
```

The window returns to that displayed for the step in Section 3.6.9-2.

Exiting the EFI Shell

3.6.12-1 Exit the tool

Press [Enter] with "Directory Path" and "Filename" left blank.
The following window is displayed.

```
Emulex FC EFI-Bios Firmware Update Utility, Ver: 3.11x1
-----
001: LP11000   PCI-X 133MHz   Seg#: 00 Bus#: F0 Dev#: 01 Func#: 00
      EFI Boot : BE3.11X1   SLI - 1   : B1D2.70A5
      Firmware : BS2.70A5   SLI - 2   : B1D2.70A5
      Port Name : 10000000C93F7A99 Kernel   : 1.40A3
-----

Directory Path : .
Filename       : No Filename Entered.

Press any Key to Return to Previous Menu ...

Copyright (c) 2003-2005 Emulex. All rights reserved.
```

Press any key to return to the window displayed for the step in Section 3.6.9-2.

```
Emulex FC EFI-Bios Utility, Ver: 3.11x1
-----
001: LP11000   PCI-X 133MHz   Seg#: 00 Bus#: F0 Dev#: 01 Func#: 00
      HBA Status: Ready     Boot Bios : Enabled
      EFI Boot   : BE3.11X1   Firmware  : BS2.70A5
-----

1. Setup Utility
2. Firmware Update

<^/v> to Change Options, <Enter> to Select Option, <ESC> to Prev Menu.

Copyright (c) 2003-2005 Emulex. All rights reserved.
```

Press the [Esc] key to return to the window displayed for the step in Section 3.6.9-1.

```
Emulex FC EFI-Bios Utility, Ver: 3.11x1
-----

Emulex Adapters in this System: 001 thru 002
-----
001: LP11000   PCI-X 133MHz   Seg#: 00 Bus#: F0 Dev#: 01 Func#: 00
002: LP11000   PCI-X 133MHz   Seg#: 00 Bus#: 10 Dev#: 01 Func#: 00
-----

<</>> to Display Prev/Next Page.
<^/v> to Change Options, <Enter> to Select Option, <ESC> to Exit.

Copyright (c) 2003-2005 Emulex. All rights reserved.
```

Press the [Esc] key again to return to the EFI shell (exiting the tool).

```
Drv[22] Ctrl[ALL] Lang[eng] - Options set. Action Required is None
None
fs0: >
```

3.6.12-2 Enter "exit" in the EFI shell

Enter "exit" in the EFI shell to return to the EFI Boot Manager window (the following window).

```
EFI Boot Manager ver 1.10 [1.13]
Please select a boot option
Windows Server 2008, Datacenter
EFI Shell [Built-in]
DVD/Acpi(PNP0A03,0)/Pci(1D|1)/Usb(0, 0)/Usb(1, 0)
Network/Acpi(PNP0A03,0)/Pci(1E|0)/Pci(8|0)/Mac(000B5D6E01BF)
Boot Option Maintenance Menu
Setup Menu
Use ^ and v to change option(s). Use Enter to select an option
```

3.6.12-3 Eject the Firmware CD

Eject the Firmware CD from the KVM DVD-ROM drive.
Exit the terminal software, closing its window.

Terminating the Web-UI Connection

3.6.13 Setting "Power Off" for the partition

1) For the partition that was set to "Power On" for the Fibre Channel card firmware update, set "Power Off. [Part 1]

On the Partition > Power Control page (System > Power Control page in PRIMEQUEST 510A), set [Power Off] under "Power Control" for the partition, and click <Apply>.

System | **Partition** | Switch | User Administration | Network Configuration | Maintenance | Logout

>Partition > Power Control

Power Control [Refresh] [Help]

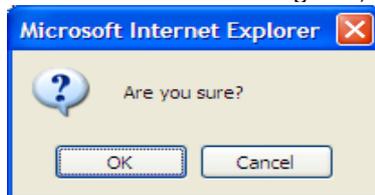
Select a Power Control option for one or more partitions, then click the Apply button to take effect.

| # | Partition Name | Status | Power Status | System Progress | Power Control | Force Power Off Delay |
|----|----------------|--------|--------------|-----------------|------------------|------------------------------|
| 0 | Partition#0 | OK | On | OS Running | (Not specified) | <input type="checkbox"/> min |
| 2 | Partition#2 | OK | Standby | Power Off | (Not specified) | <input type="checkbox"/> min |
| 3 | Partition#3 | OK | Standby | Power Off | (Not specified) | <input type="checkbox"/> min |
| 4 | Partition#4 | OK | Standby | Power Off | (Not specified) | <input type="checkbox"/> min |
| 6 | Partition#6 | OK | On | OS Running | (Not specified) | <input type="checkbox"/> min |
| 8 | Partition#8 | OK | On | OS Running | (Not specified) | <input type="checkbox"/> min |
| 10 | Partition#10 | OK | Standby | Power Off | (Not specified) | <input type="checkbox"/> min |
| 12 | Partition#12 | OK | On | POST 1094h | Power Off | <input type="checkbox"/> min |
| 14 | Partition#14 | OK | On | OS Running | (Not specified) | <input type="checkbox"/> min |

[Apply] [Cancel]

Partition > Power Control page ("Power Off" set)

In the confirmation dialog box, click <OK>.



- 2) For the partition that was set to "Power On" for the Fibre Channel card firmware update, set "Power Off".
 [Part 2]
 Confirm that the partition has "Power Off In Progress" displayed in the System Progress column after "Power Off" is set.

System | Partition | Switch | User Administration | Network Configuration | Maintenance Logout

>Partition >Power Control

- Power Control
- Schedule
- USB/Video/DVD Switch
- Console Redirection Switch
- Partition Configuration
- Split Configuration
- Reserved SB Configuration
- Partition#0
- Partition#2
- Partition#3
- Partition#4
- Partition#6
- Partition#8
- Partition#10
- Partition#12
- Partition#14

Power Control

Refresh Help

Select a Power Control option for one or more partitions, then click the Apply button to take effect.

| # | Partition Name | Status | Power Status | System Progress | Power Control | Force Power Off Delay |
|----|----------------|--------|--------------|-----------------------|-----------------|------------------------------|
| 0 | Partition#0 | OK | On | OS Running | (Not specified) | <input type="checkbox"/> min |
| 2 | Partition#2 | OK | Standby | Power Off | (Not specified) | <input type="checkbox"/> min |
| 3 | Partition#3 | OK | Standby | Power Off | (Not specified) | <input type="checkbox"/> min |
| 4 | Partition#4 | OK | Standby | Power Off | (Not specified) | <input type="checkbox"/> min |
| 6 | Partition#6 | OK | On | OS Running | (Not specified) | <input type="checkbox"/> min |
| 8 | Partition#8 | OK | On | OS Running | (Not specified) | <input type="checkbox"/> min |
| 10 | Partition#10 | OK | Standby | Power Off | (Not specified) | <input type="checkbox"/> min |
| 12 | Partition#12 | OK | On | Power Off In Progress | (Not specified) | <input type="checkbox"/> min |
| 14 | Partition#14 | OK | On | OS Running | (Not specified) | <input type="checkbox"/> min |

Apply Cancel

Partition > Power Control page ("Power Off" operation started)

- 3) For the partition that was set to "Power On" for the Fibre Channel card firmware update, set "Power Off".
 [Part 3]
 Confirm that the partition has "Power Off" displayed finally in the System Progress column after "Power Off" is set.

System | Partition | Switch | User Administration | Network Configuration | Maintenance Logout

>Partition >Power Control

- Power Control
- Schedule
- USB/Video/DVD Switch
- Console Redirection Switch
- Partition Configuration
- Split Configuration
- Reserved SB Configuration
- Partition#0
- Partition#2
- Partition#3
- Partition#4
- Partition#6
- Partition#8
- Partition#10
- Partition#12
- Partition#14

Power Control

Refresh Help

Select a Power Control option for one or more partitions, then click the Apply button to take effect.

| # | Partition Name | Status | Power Status | System Progress | Power Control | Force Power Off Delay |
|----|----------------|--------|--------------|-----------------|-----------------|------------------------------|
| 0 | Partition#0 | OK | On | OS Running | (Not specified) | <input type="checkbox"/> min |
| 2 | Partition#2 | OK | Standby | Power Off | (Not specified) | <input type="checkbox"/> min |
| 3 | Partition#3 | OK | Standby | Power Off | (Not specified) | <input type="checkbox"/> min |
| 4 | Partition#4 | OK | Standby | Power Off | (Not specified) | <input type="checkbox"/> min |
| 6 | Partition#6 | OK | On | OS Running | (Not specified) | <input type="checkbox"/> min |
| 8 | Partition#8 | OK | On | OS Running | (Not specified) | <input type="checkbox"/> min |
| 10 | Partition#10 | OK | Standby | Power Off | (Not specified) | <input type="checkbox"/> min |
| 12 | Partition#12 | OK | Standby | Power Off | (Not specified) | <input type="checkbox"/> min |
| 14 | Partition#14 | OK | On | OS Running | (Not specified) | <input type="checkbox"/> min |

Apply Cancel

Partition > Power Control page ("Power Off" operation completed)

4) Restore the DVD setting.

On the Partition > USB/Video/DVD Switch page, restore the USB/Video/DVD Switch setting, and click <Apply>.

(In PRIMEQUEST 510A, this procedure is unnecessary.)

System | Partition | Switch | User Administration | Network Configuration | Maintenance Logout

>Partition >USB/Video/DVD Switch

- Power Control
- Schedule
- USB/Video/DVD Switch**
- Console Redirection Switch
- Partition Configuration
- Split Configuration
- Reserved SB Configuration
- Partition#0
- Partition#2
- Partition#3
- Partition#4
- Partition#6
- Partition#8
- Partition#10
- Partition#12
- Partition#14

USB/Video/DVD Switch Help

Select partition to connect USB, Video, or DVD respectively, then click the Apply button to take effect.

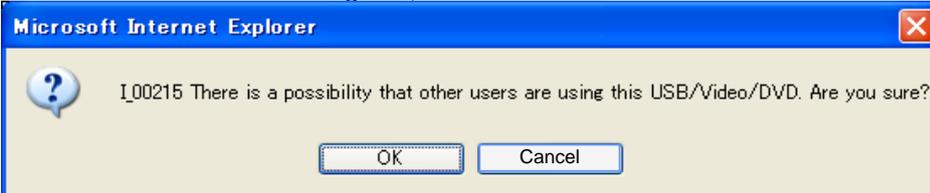
| # | Partition Name | Status | Power Status | USB | Video | DVD |
|------|----------------|--------|--------------|----------------------------------|----------------------------------|----------------------------------|
| 0 | Partition#0 | OK | On | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2 | Partition#2 | OK | Standby | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3 | Partition#3 | OK | Standby | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4 | Partition#4 | OK | Standby | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 6 | Partition#6 | OK | On | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 8 | Partition#8 | OK | On | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 10 | Partition#10 | OK | Standby | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 12 | Partition#12 | OK | Standby | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 14 | Partition#14 | OK | On | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Free | | | | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> |

Partition > USB/Video/DVD Switch page (DVD switch selection)

In the confirmation dialog box, click <OK>.



In another confirmation dialog box, click <OK>.



In the completion dialog box, click <OK>.



3.6.14 Starting the tool in an environment with various EFI drivers

If there is a mixture of Fibre Channel adapters with different EFI driver version numbers, start the EFI tool by following the procedure below.

3.6.14-1 Confirm the EFI driver number for each Fibre Channel device

```
fs1:\> drivers -b
          T  D
D         Y C I
R         P F A
V  VERSION  E G G #D #C DRIVER NAME          IMAGE NAME
==  =====  = = = == ==  =====
18 00000010 B - - 5 42 Pci Bus Driver          PciBus
** *****
** *****
22 00031114 D X X 2 - Emulex SCSI Pass Thru Driver  3.11A4
** *****
** *****
34 00031016 D X X   - Emulex SCSI Pass Thru Driver  3.10A6
** ***** *
```

For two different Emulex version numbers, confirm the numerical value NN at the beginning of the line of the EFI driver that is the newer version (the one with the higher number, which is 0031114). (Here, NN is 22.)

3.6.14-2 Enter the command for startup

```
fs1:\> drvcfg -s 22
```

The number entered after "-s" is the numerical value (NN) confirmed in the step explained in Section 3.6.14-1.

3.6.14-3 Confirm startup

Based on the screen displayed for startup, such as shown below, confirm that the tool has started.

```
-----
Emulex Fibre Channel EFI-Bios Utility, Ver: 3.11a4
-----

Emulex Adapters in this System: 001 thru002

001: LP10000    PCI-X 133MHz Bus#: 0F Dev#: 01 Func#: 00
```

3.6.14-4 Notes

If an old version number is specified by mistake (here, that would be 34), the Fibre Channel adapter with the older version number may be incorrectly displayed with "PCI 33MHz," as shown below on line 002. In this state with the selected device having the old version number and being incorrectly displayed, the update cannot be performed.

In this state, exit the EFI tool once by pressing the [Esc] key, and go back to the step in Section 3.6.14-1.

```
-----
Emulex Fibre Channel EFI-Bios Utility, Ver: 3.10a6
-----

Emulex Adapters in this System: 001 thru002

001: LP10k     PCI-X 133MHz Bus#: 0F Dev#: 01 Func#: 00
002: PCI 33MHz Bus#: 00 Dev#: 00 Func#: 00
```

Appendix Lists of the Folder Hierarchy on the Firmware CD

[PQ420]

| Model name | Specification | Number displayed on screen | Firmware | Directory path | File name | Confirmation of version number |
|------------|---|----------------------------|----------|--|-------------|--------------------------------|
| MC-08FC11 | Delivery No.: CA06657-E301 Maintenance No.: CA05950-0966 | LP10000 | 1.91A5 | \\PQ420\Emulex_FC\MC08FC11\Firm_1.91A5 | td191a5.all | TS1.91A5 |
| | | | 1.91A1 | \\PQ420\Emulex_FC\MC08FC11\Firm_1.91A1 | td191a1.all | TS1.91A1 |
| MC-08FC71 | Delivery No.: CA06657-E311 Maintenance No.:CA05950-1020 | LP10000 | 1.91A5 | \\PQ420\Emulex_FC\MC08FC71\Firm_1.91A5 | td191a5.all | TS1.91A5 |
| | | | 1.91A1 | \\PQ420\Emulex_FC\MC08FC71\Firm_1.91A1 | td191a1.all | TS1.91A1 |
| MC-08FC31 | Delivery No.: CA06657-E303 Maintenance No.:CA05951-9610 | LP11000 | 2.70A5 | \\PQ420\Emulex_FC\MC08FC31\Firm_2.70A5 | bd270a5.all | BS2.70A5 |
| | | | 2.10A7 | \\PQ420\Emulex_FC\MC08FC31\Firm_2.10A7 | bd210a7.all | BS2.10A7 |
| MC-08FC41 | Delivery No.: CA06657-E304 Maintenance No.: CA05951-9611 | LP11002 | 2.70A5 | \\PQ420\Emulex_FC\MC08FC41\Firm_2.70A5 | bf270a5.all | BS2.70A5 |
| | | | 2.10A7 | \\PQ420\Emulex_FC\MC08FC41\Firm_2.10A7 | bf210a7.all | BS2.10A7 |
| MC-08FC51 | Delivery No.: CA06657-E305 Maintenance No.: CA05951-9612 | LPe11000 | 2.70A5 | \\PQ420\Emulex_FC\MC08FC51\Firm_2.70A5 | zd270a5.all | ZS2.70A5 |
| | | | 2.50A4 | \\PQ420\Emulex_FC\MC08FC51\Firm_2.50A4 | zd250a4.all | ZS2.50A4 |
| MC-08FC61 | Delivery No.: CA06657-E306 Maintenance No.: CA05951-9613 | LPe11002 | 2.70A5 | \\PQ420\Emulex_FC\MC08FC61\Firm_2.70A5 | zf270a5.all | ZS2.70A5 |
| | | | 2.50A4 | \\PQ420\Emulex_FC\MC08FC61\Firm_2.50A4 | zf250a4.all | ZS2.50A4 |

[PQ480/440]

| Model name | Specification | Number displayed on screen | Firmware | Directory path | File name | Confirmation of version number |
|------------|---|----------------------------|----------|--|-------------|--------------------------------|
| MC-08FC11 | Delivery No.: CA06657-E301 Maintenance No.: CA05950-0966 | LP10000 | 1.91A5 | \\PQ480_440\Emulex_FC\MC08FC11\Firm_1.91A5 | td191a5.all | TS1.91A5 |
| | | | 1.91A1 | \\PQ480_440\Emulex_FC\MC08FC11\Firm_1.91A1 | td191a1.all | TS1.91A1 |
| MC-08FC71 | Delivery No.: CA06657-E311 Maintenance No.: CA05950-1020 | LP10000 | 1.91A5 | \\PQ480_440\Emulex_FC\MC08FC71\Firm_1.91A5 | td191a5.all | TS1.91A5 |
| | | | 1.91A1 | \\PQ480_440\Emulex_FC\MC08FC71\Firm_1.91A1 | td191a1.all | TS1.91A1 |
| MC-08FC31 | Delivery No.: CA06657-E303 Maintenance No.: CA05951-9610 | LP11000 | 2.70A5 | \\PQ480_440\Emulex_FC\MC08FC31\Firm_2.70A5 | bd270a5.all | BS2.70A5 |
| | | | 2.10A7 | \\PQ480_440\Emulex_FC\MC08FC31\Firm_2.10A7 | bd210a7.all | BS2.10A7 |
| MC-08FC41 | Delivery No.: CA06657-E304 Maintenance No.: CA05951-9611 | LP11002 | 2.70A5 | \\PQ480_440\Emulex_FC\MC08FC41\Firm_2.70A5 | bf270a5.all | BS2.70A5 |
| | | | 2.10A7 | \\PQ480_440\Emulex_FC\MC08FC41\Firm_2.10A7 | bf210a7.all | BS2.10A7 |

[PQ520]

| Model name | Specification | Number displayed on screen | Firmware | Directory path | File name | Confirmation of version number |
|------------|--|----------------------------|----------|--|-------------|--------------------------------|
| MC-08FC71 | Delivery No.: CA06657-E311 Maintenance No.: CA05950-1020 | LP10000 | 1.91A5 | \\PQ520\Emulex_FC\MC08FC71\Firm_1.91A5 | td191a5.all | TS1.91A5 |
| | | | 1.91A1 | \\PQ520\Emulex_FC\MC08FC71\Firm_1.91A1 | td191a1.all | TS1.91A1 |
| MC-08FC31 | Delivery No.: CA06657-E303 Maintenance No.: CA05951-9610 | LP11000 | 2.70A5 | \\PQ520\Emulex_FC\MC08FC31\Firm_2.70A5 | bd270a5.all | BS2.70A5 |
| | | | 2.10A7 | \\PQ520\Emulex_FC\MC08FC31\Firm_2.10A7 | bd210a7.all | BS2.10A7 |
| MC-08FC41 | Delivery No.: CA06657-E304 Maintenance No.: CA05951-9611 | LP11002 | 2.70A5 | \\PQ520\Emulex_FC\MC08FC41\Firm_2.70A5 | bf270a5.all | BS2.70A5 |
| | | | 2.10A7 | \\PQ520\Emulex_FC\MC08FC41\Firm_2.10A7 | bf210a7.all | BS2.10A7 |
| MC-08FC51 | Delivery No.: CA06657-E305 Maintenance No.: CA05951-9612 | LPe11000 | 2.70A5 | \\PQ520\Emulex_FC\MC08FC51\Firm_2.70A5 | zd270a5.all | ZS2.70A5 |
| | | | 2.50A4 | \\PQ520\Emulex_FC\MC08FC51\Firm_2.50A4 | zd250a4.all | ZS2.50A4 |
| MC-08FC61 | Delivery No.: :CA06657-E306 Maintenance No.: CA05951-9613 | LPe11002 | 2.70A5 | \\PQ520\Emulex_FC\MC08FC61\Firm_2.70A5 | zf270a5.all | ZS2.70A5 |
| | | | 2.50A4 | \\PQ520\Emulex_FC\MC08FC61\Firm_2.50A4 | zf250a4.all | ZS2.50A4 |

[PQ580/540]

| Model name | Specification | Number displayed on screen | Firmware | Directory path | File name | Confirmation of version number |
|------------|--|----------------------------|----------|--|-------------|--------------------------------|
| MC-08FC71 | Delivery No.: CA06657-E311 Maintenance No.: CA05950-1020 | LP10000 | 1.91A5 | \\PQ580_540\Emulex_FC\MC08FC71\Firm_1.91A5 | td191a5.all | TS1.91A5 |
| | | | 1.91A1 | \\PQ580_540\Emulex_FC\MC08FC71\Firm_1.91A1 | td191a1.all | TS1.91A1 |
| MC-08FC31 | Delivery No.: CA06657-E303 Maintenance No.: CA05951-9610 | LP11000 | 2.70A5 | \\PQ580_540\Emulex_FC\MC08FC31\Firm_2.70A5 | bd270a5.all | BS2.70A5 |
| | | | 2.10A7 | \\PQ580_540\Emulex_FC\MC08FC31\Firm_2.10A7 | bd210a7.all | BS2.10A7 |
| MC-08FC41 | Delivery No.: CA06657-E304 Maintenance No.: CA05951-9611 | LP11002 | 2.70A5 | \\PQ580_540\Emulex_FC\MC08FC41\Firm_2.70A5 | bf270a5.all | BS2.70A5 |
| | | | 2.10A7 | \\PQ580_540\Emulex_FC\MC08FC41\Firm_2.10A7 | bf210a7.all | BS2.10A7 |
| MC-08FC51 | Delivery No.: CA06657-E305 Maintenance No.: CA05951-9612 | LPe11000 | 2.70A5 | \\PQ580_540\Emulex_FC\MC08FC51\Firm_2.70A5 | bd270a5.all | BS2.70A5 |
| | | | 2.10A7 | \\PQ580_540\Emulex_FC\MC08FC51\Firm_2.10A7 | bd210a7.all | BS2.10A7 |
| MC-08FC61 | Delivery No.: :CA06657-E306 Maintenance No.: CA05951-9613 | LPe11002 | 2.70A5 | \\PQ580_540\Emulex_FC\MC08FC61\Firm_2.70A5 | bf270a5.all | BS2.70A5 |
| | | | 2.10A7 | \\PQ580_540\Emulex_FC\MC08FC61\Firm_2.10A7 | bf210a7.all | BS2.10A7 |

[PQ520A/520X]

| Model name | Specification | Number displayed on screen | Firmware | Directory path | File name | Confirmation of version number |
|------------|--|----------------------------|----------|--|-------------|--------------------------------|
| MC-08FC71 | Delivery No.: CA06657-E311 Maintenance No.: CA05950-1020 | LP10000 | 1.91A5 | \\PQ520A_520X\Emulex_FC\MC08FC71\Firm_1.91 | td191a5.all | TS1.91A5 |
| | | | 1.91A1 | \\PQ520A_520X\Emulex_FC\MC08FC71\Firm_1.91 | td191a1.all | TS1.91A1 |
| MC-08FC31 | Delivery No.: CA06657-E303 Maintenance No.: CA05951-9610 | LP11000 | 2.70A5 | \\PQ520A_520X\Emulex_FC\MC08FC31\Firm_2.70 | bd270a5.all | BS2.70A5 |
| | | | 2.10A7 | \\PQ520A_520X\Emulex_FC\MC08FC31\Firm_2.10 | bd210a7.all | BS2.10A7 |
| MC-08FC41 | Delivery No.: CA06657-E304 Maintenance No.: CA05951-9611 | LP11002 | 2.70A5 | \\PQ520A_520X\Emulex_FC\MC08FC41\Firm_2.70 | bf270a5.all | BS2.70A5 |
| | | | 2.10A7 | \\PQ520A_520X\Emulex_FC\MC08FC41\Firm_2.10 | bf210a7.all | BS2.10A7 |
| MC-08FC51 | Delivery No.: CA06657-E305 Maintenance No.: CA05951-9612 | LPe11000 | 2.70A5 | \\PQ520A_520X\Emulex_FC\MC08FC51\Firm_2.70 | zd270a5.all | ZS2.70A5 |
| | | | 2.50A4 | \\PQ520A_520X\Emulex_FC\MC08FC51\Firm_2.50 | zd250a4.all | ZS2.50A4 |
| MC-08FC61 | Delivery No.: :CA06657-E306 Maintenance No.: CA05951-9613 | LPe11002 | 2.70A5 | \\PQ520A_520X\Emulex_FC\MC08FC61\Firm_2.70 | zf270a5.all | ZS2.70A5 |
| | | | 2.50A4 | \\PQ520A_520X\Emulex_FC\MC08FC61\Firm_2.50 | zf250a4.all | ZS2.50A4 |

[PQ580A/540A]

| Model name | Specification | Number displayed on screen | Firmware | Directory path | File name | Confirmation of version number |
|------------|--|----------------------------|----------|--|-------------|--------------------------------|
| MC-08FC71 | Delivery No.: CA06657-E311 Maintenance No.: CA05950-1020 | LP10000 | 1.91A5 | \\PQ580A_540A\Emulex_FC\MC08FC71\Firm_1.91 | td191a5.all | TS1.91A5 |
| | | | 1.91A1 | \\PQ580A_540A\Emulex_FC\MC08FC71\Firm_1.91 | td191a1.all | TS1.91A1 |
| MC-08FC31 | Delivery No.: CA06657-E303 Maintenance No.: CA05951-9610 | LP11000 | 2.70A5 | \\PQ580A_540A\Emulex_FC\MC08FC31\Firm_2.70 | bd270a5.all | BS2.70A5 |
| | | | 2.10A7 | \\PQ580A_540A\Emulex_FC\MC08FC31\Firm_2.10 | bd210a7.all | BS2.10A7 |
| MC-08FC41 | Delivery No.: CA06657-E304 Maintenance No.: CA05951-9611 | LP11002 | 2.70A5 | \\PQ580A_540A\Emulex_FC\MC08FC41\Firm_2.70 | bf270a5.all | BS2.70A5 |
| | | | 2.10A7 | \\PQ580A_540A\Emulex_FC\MC08FC41\Firm_2.10 | bf210a7.all | BS2.10A7 |
| MC-08FC51 | Delivery No.: CA06657-E305 Maintenance No.: CA05951-9612 | LPe11000 | 2.70A5 | \\PQ580A_540A\Emulex_FC\MC08FC51\Firm_2.70 | zd270a5.all | ZS2.70A5 |
| | | | 2.50A4 | \\PQ580A_540A\Emulex_FC\MC08FC51\Firm_2.50 | zd250a4.all | ZS2.50A4 |
| MC-08FC61 | Delivery No.: :CA06657-E306 Maintenance No.: CA05951-9613 | LPe11002 | 2.70A5 | \\PQ580A_540A\Emulex_FC\MC08FC61\Firm_2.70 | zf270a5.all | ZS2.70A5 |
| | | | 2.50A4 | \\PQ580A_540A\Emulex_FC\MC08FC61\Firm_2.50 | zf250a4.all | ZS2.50A4 |

[PQ510A]

| Model name | Specification | Number displayed on screen | Firmware | Directory path | File name | Confirmation of version number |
|------------|--|----------------------------|----------|---|-------------|--------------------------------|
| MC-08FC51 | Delivery No.: CA06657-E305 Maintenance No.: CA05951-9612 | LPe11000 | 2.70A5 | \\PQ510A\Emulex_FC\MC08FC51\Firm_2.70A5 | zd270a5.all | ZS2.70A5 |
| | | | 2.50A4 | \\PQ510A\Emulex_FC\MC08FC51\Firm_2.50A4 | zd250a4.all | ZS2.50A4 |
| MC-08FC61 | Delivery No.: :CA06657-E306 Maintenance No.: CA05951-9613 | LPe11002 | 2.70A5 | \\PQ510A\Emulex_FC\MC08FC61\Firm_2.70A5 | zf270a5.all | ZS2.70A5 |
| | | | 2.50A4 | \\PQ510A\Emulex_FC\MC08FC61\Firm_2.50A4 | zf250a4.all | ZS2.50A4 |

Corrective actions for error messages

| Error message | Cause | Corrective action |
|--------------------------|--|---|
| Unable to Open the file. | The folder path is incorrect. The file name is incorrect. | Enter the correct folder path. Enter the correct file name. |
| Incompatible Image. | Incompatible firmware has been selected. | Confirm that the firmware of this version number is compatible with the corresponding adapter card. |

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