



Update Firmware Version 3.92a2

Solaris (PCI) Procedure

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Introduction

Updating firmware involves performing the following steps:

1. Decide which firmware file to use.
2. Load the firmware package using the driver utility for Solaris (lputil).
3. Enable boot code if you are using the adapter's drives to boot the system.

If you loaded the firmware package containing boot code, refer to the boot code Update Manual to enable boot code on the adapter. This procedure loads boot code on the adapter and enables boot code on the system.

Firmware File Types

A list of files is provided when you download your new firmware or in the firmware package readme.txt file.

.dwc and .awc Files

- **.dwc - preferred** Does not include POST code. If the update process is interrupted (such as by a power outage), the POST code is not affected and the download process can be retried.
- **.awc** - Includes POST code. If the update process is interrupted (such as by a power outage) during the POST code update, you may have to return the HBA to Emulex for repair.

The readme file that accompanies the firmware package indicates situations in which you must update the firmware with the .awc file.

Boot Code

Firmware is bundled with or without boot code. Boot code allows you to designate a Fibre Channel drive as the boot drive. If the adapter's devices will be used to boot the system, it is recommended that you use the firmware package that includes boot code. The update procedure will load both the new firmware and boot code at the same time. After updating,

Update Firmware using lputil

Prerequisites:

- The driver for Solaris is installed properly.
- The driver utilities kit (including lputil, which is used in this procedure) has been installed properly.
- The firmware file has been downloaded to a local drive.

Caution If you are using lputil to update firmware on an LP10000DC, LP10000, or LP9802DC HBA, you must use lputil version 1.5a0 or later. For any other HBA, you can use lputil version 1.4a4 or later.

Firmware versions differ between adapter versions. Make sure you have downloaded the appropriate firmware for your adapter.

Load Firmware

1. Start the utility by entering the complete path to lputil. The path in the example reflects the default installation path. If the installation path was modified, adjust the command appropriately.

```
/usr/sbin/lpfc/  
lputil
```

2. From the Main menu, enter 3, Firmware Maintenance.
3. If prompted, choose the HBA that is being updated.
4. Enter 1, Load Firmware Image.
5. Enter the full path to the firmware file. The firmware is transferred to flash ROM.

If you are updating the firmware on a dual-channel HBA, repeat steps 3 through 5 to update the firmware on the second port.

If you loaded a firmware package containing boot code, refer to the boot code Update Manual to load and enable boot code.