

## Multi-boot Image for 4Gb Fibre Channel Adapters

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### 1. Version

These release notes describe the changes, fixes, known issues, and release details that apply to the multi-boot package for 4Gb Fibre Channel adapters, version 1.79. This package is a compressed file that contains:

- 4Gb BIOS version 2.10
- 4Gb FCode version 2.04
- 4Gb EFI version 2.04
- Firmware version 4.06.02
- FlasUtil version 1.78
- EfiUtil version 2.62

## 2. BIOS

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This section describes the changes, fixes, known issues, and release details that apply to the 4Gb BIOS. For details, see the following sections:

- [2.1 Changes](#)
- [2.2 Bug Fixes](#)
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### 2.1 Changes

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The following changes have been made to the 4Gb BIOS between versions 2.02 and 2.10.

#### Hardware Support

- 4Gb Fibre Channel adapters

#### OS Support

None

#### Software Components

- Added code to support new CLP `set_capability` specification.
- Added code to allow two minutes for link to come up when spin-up delay is enabled.
- Added code to poll for keyboard status.
- Removed external loopback test option for ISP8432.
- Added check to see if IO support valid.
- Added check to CLP `set_capability` string for the correct HBA port.
- Added support for new CLP `set_capability` serial link specification for ISP2532.
- Added additional error message for Verify Disk utility when device does not support SCSI cmd 2fh.
- Added support for Extended HBA CLP strings.

#### Industry Standards Compliance

N/A

### 2.2 Bug Fixes

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The following fixes have been made to the 4Gb BIOS between versions 2.02 and 2.10.

- Changed code to prevent the use of bit 13 on host parameters. This avoids potential conflict with inbox driver.
- Fixed bug with `restore netport defaults` when restoring NPIVs.
- Added code to reset ISP before accessing NVRAM the first time.
- Added support for IDT PCIe switch.
- Fixed bug in restoring NPIV after updating with CLP.
- Added code to save some PCI data.
- Added check for INT Polling before updating interrupt controller (PCI3.0).
- Fixed bug where `eax` register became corrupt in `nvrाम_config` routine.
- Fixed cosmetic bug in displaying selectable boot LUN in **CTRL-Q** utility.

### 2.3 Known Issues

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None

### 2.4 Additional Information

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None

### 3. EFI

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This section describes the changes, fixes, known issues, and release details that apply to Fibre Channel EFI driver and utilities. For details, see the following sections:

- [3.1 Changes](#)
- [3.2 Bug Fixes](#)
- [3.3 Known Issues](#)
- [3.4 Additional Information](#)

#### 3.1 Changes

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The following changes have been made to the EFI between driver version 2.00 and 2.04, EfiUtil version 2.46 and 2.62.

**Driver:**

- Added Extended CLP Support. (ER62046)

**EfiUtil:**

- Added support to update NVRAM BIOS default. (ER62912)

#### 3.2 Bug Fixes

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The following fixes have been made to the EFI between driver version 1.09 and 2.00, EfiUtil version 2.30 and 2.46.

**Driver:**

- Disabled HSS support for QLx24xx adapters. HSS CLP command does a NOP and returns success for QLx24xx adapters. (ER62046)
- CLP TargetBootPaths4-7 now work correctly on 25xx. (ER62333)
- CLP TargetBootPath0 now has priority over TargetPortName. (ER62333)
- Fixed CLP TargetBootPath Lun0 bug. (ER62333)
- CLP VirtualInterfaces command now supports default WWNN. (ER62333)
- Fixed NPIV table checksum problem. (ER62333)

**EfiUtil:**

- Fixed a bug that caused Efiutil to hang on x64 systems. The hang occurred right after the Efiutil banner was displayed. (ER62207)
- Fixed `nvram_read` command bug. (ER62587)
- Fixed `nvram_write` command bug: Server crash on `nvram_write` after running script from `Shell>` prompt. (ER62696)
- Fixed `restore_nvdefault` in batch mode.

#### 3.3 Known Issues

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**Driver:**

- The `Info` command via `drvcfg` and `efiutil show` different APCI device paths.

#### 3.4 Additional Information

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- Efiutil and the EFI Driver are a matched set. Always make sure that Efiutil and the EFI Driver are from the same release package.

### 4. FCode

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This section describes the changes, fixes, known issues, and release details that apply to the 4Gb FCode. For details, see the following sections:

- [4.1 Changes](#)
- [4.2 Bug Fixes](#)
- [4.3 Known Issues](#)
- [4.4 Additional Information](#)

## 4.1 Changes

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The following changes have been made to the 4Gb FCode between versions 2.00 and 2.04.

### Hardware Support

None

### OS Support

None

### Software Components

- Removed `set-bootid`, `set-boot-wnn`, and related QLA only words from IBM version.
- Added IBM debugging to BOFM words and `set debug?=C00` if `diag-switch` is true.
- Added max-payload bridge fix for 4-port QMI2464 HBA.
- Preserve flash area x40000-x80000 which has FW-Area, Flash Tables, NPIV data.
- Use complete NVRAM values for `fwopt2` and `fwopt3` in `fw-init`, initialize ICB.
- Removed `stop-fw` from `isp-probe` method. It did nothing since the firmware is not loaded.
- Changed compatible property to append to existing property, if it exists.
- Changed all references in the FCode of 'HBA' to 'Adapter' (for QLE80xx CNA).
- Changed the `d-mbox` (`dump-mailbox`) word to use the `.4z` data format macro.
- Added Access FCoE Data IOCB to allow displaying and changing FCoE configuration.
- Added FCoE version number to the version command (QLE80xx CNA only).
- Changed SubSystem Device ID from x0169 to x014B for Sun QEM3472 HBA.
- Added `sunid-bit = x10` to FCode parameter word (offset x158) in NVRAM.
- Added support for Sun QEM3472 with SubSystem ID = 0x0169, node name `SUNW,qlc`.
- Added QLE80xx CNA support.

### Industry Standards Compliance

N/A

## 4.2 Bug Fixes

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The following fixes have been made to the 4Gb FCode between versions 2.00 and 2.04.

- Fixed `get-mail` to handle Response-Queue interrupts (`stat=13`) and added debugging.
- Fixed `open` to always return -1. This returns link-down fw-state fails on Serengetti.
- Fixed `load-image` to return error status so you can exit on failure.
- Fixed compatible prop for IBM. Return DDDD value back to DevID in strings: `pciVVVV,DDDD.SSSS.ssss.RR` & `pciVVVV,DDDD.SSSS.ssss`.  
where  
DDDD = SSDevID
- Fixed blank lines in `list-wnns` for `set-boot-wnn` command in `qla-mode`. (ER59591)
- Fixed `selftest mem-siz = x20000` (128KB) on IBM CFFe/CFFx mezzanine cards.

## 4.3 Known Issues

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None

## 4.4 Additional Information

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None

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Web: <http://support.qlogic.com>

Email: [support@qlogic.com](mailto:support@qlogic.com)

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