

# Emulex LPe15000-series and LPe16000-series HBA Firmware and Boot Code Release Notes

**Version:** 10.6.144.21

**Date:** August 2015

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## Purpose and Contact Information

These release notes describe the new features, resolved known issues, and current known issues associated with this firmware and boot code release for Emulex LightPulse® LPe15004-M8, LPe16000, LPe16000B, LPe16002, LPe16002B, LPe16002-M8, LPe16202-X, LPe16004-M6, and LPe16004-M6-EI host bus adapters (HBAs).

For the latest product documentation, go to [www.Emulex.com](http://www.Emulex.com). If you have questions or require additional information, contact an authorized Emulex technical support representative at [tech.support-elx@avagotech.com](mailto:tech.support-elx@avagotech.com), 800-854-7112 (US/Canada toll free), +1 714-885-3402 (US/International), or +44 1189-772929 (Europe, Middle East, and Africa).

## New Features

1. **Supports Forward Error Correction (FEC) (Technical Preview. Supported for testing only. By default the feature is disabled.)** Not supported on LPe15004 -M8 HBAs.
2. **Supports link cable beacon (LCB) functionality, as defined in the T11 FC-LS-2 standard.** Fabric switches use LCB to flash (or beacon) the light-emitting diodes (LEDs) on the HBAs that are physically given to a specific switch port. Not supported on LPe15004 -M8 HBAs.
3. **Supports read diagnostics parameters (RDP), as defined in the T11 FC-LS-3 draft standard.** RDP allows the fabric switch to query any connected HBA for specific health information, including small form-factor pluggable (SFP) diagnostics, port speed, link error status, temperature, and receive (Rx) and transmit (Tx) power. Not supported on LPe15004 -M8 HBAs.

## Resolved Issues

### Firmware

There are no resolved issues.

### FC x86 BootBIOS

There are no resolved issues.

### FC FCode/OpenBoot

There are no resolved issues.

## FC UEFIBoot

There are no resolved issues.

## Known Issues

### Firmware

1. **To upgrade the firmware to this version, the HBA must be running firmware version 1.0.11.108 or later.**

#### Workaround

Firmware older than version 1.0.11.108 must be updated to that release. From version 1.0.11.108, you can update to the latest release.

2. **Performance with Rec Seq Coalescing (RSC) may be low.**

#### Workaround

None.

3. **Fabric login (FLOGI) does not occur on systems running Red Hat Enterprise Linux (RHEL) 6.5.**

#### Workaround

None.

4. **After loading or unloading the Fibre Channel (FC) driver, the status of Port 1 may be shown as down on ESXi 5.5 systems.**

#### Workaround

None.

5. **Link may not come up when topology is set to 0x6 and/or 0x0 on an L\_Port on ESXi 5.5 systems.**

#### Workaround

None.

### FC x86 BootBIOS

1. **The Link Speed setting will be overwritten by the FC driver and will not take effect during a regular boot into the local operating system. Therefore, setting the link speed from the boot BIOS utility should only be used with boot from storage area network (SAN).**

#### Workaround

None.

2. **Pressing <CTRL><P> to enter the Emulex PXE BIOS utility during system boot may cause the system to hang.**

#### Workaround

None.

3. During boot from SAN, "A Disk read Error occurred press ctrl+alt+del to restart" error may appear.

#### Workaround

None.

4. If two different logical unit numbers (LUNs) are configured, only one may be displayed in the system BIOS boot list.

#### Workaround

None.

## FC FCode/OpenBoot

There are no known issues.

## FC UEFIBoot

There are no known issues.

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