

# Emulex<sup>®</sup> LPe12000-Series LightPulse<sup>®</sup> HBA Firmware and Boot Code Release Notes

Boot Code Version: 1120a1  
Firmware Version: 202a3  
Date: January 30, 2017

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## Purpose and Contact Information

These release notes describe the new features, supported boot topologies, resolved issues, and known issues associated with this firmware release for Emulex<sup>®</sup> LPe12000-series LightPulse<sup>®</sup> host bus adapters (HBAs).

For the latest product documentation, go to [www.broadcom.com](http://www.broadcom.com). If you have questions or require additional information, contact an authorized Broadcom<sup>®</sup> technical support representative at [ecd-tech.support@broadcom.com](mailto:ecd-tech.support@broadcom.com) or request assistance online at <https://oemsupportportal.broadcom.com/web2tech/ecd.html>.

## New Features

- Beginning with software release 11.2, LightPulse adapters and OneConnect<sup>®</sup> adapters have independent software kits. Before updating earlier drivers and applications to the software in release 11.2, refer to the *Emulex Software Kit Migration User Guide* for special instructions and considerations for using the 11.2 software kits for LightPulse and OneConnect adapters.
- The SUSE Linux Enterprise Server (SLES) 12 SP2 operating system is now supported.
- The VMware ESXi 5.5 operating system is supported, but no new features were added.
- The VMware ESXi 5.1 operating system is no longer supported.

## Supported Boot Topologies

- Auto topology with loop (default)
- Auto topology with fabric point-to-point (P2P)
- Fibre Channel-Arbitrated Loop (FC-AL)
- Fabric P2P

## Resolved Issues

### Firmware

1. **An issue in which a link-down could occur with a large number of logical unit number (LUN) loads, exceeding 50 LUNs, is resolved.**
2. **Delays in the direct memory access (DMA) transfer over PCI Express (PCIe) between the main memory and the functional test exposure (FTE) no longer occur.**

## Known Issues

### FC x86 BootBIOS

1. **x86 BootBIOS only supports direct-connect FC-AL loop topology and does not support direct-connect P2P. LPe12000-series adapters that are attached to new targets that support direct-connect P2P and not direct-connect FC-AL do not work.**

#### **Workaround**

None.

2. **When booting from SAN (BFS) on some Brocade switches, the LUN might not be recognized as a bootable logical drive.**

#### **Workaround**

Update to the latest firmware.

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