

Emulex® HBA Manager Application for Linux

Release 14.2.455.10-1

Purpose and Contact Information

These release notes describe the supported operating systems, new features, resolved issues, known issues, and technical tips associated with this release of the Emulex® HBA Manager application for Linux.

For the latest product source files and documentation, and supported driver versions, go to www.broadcom.com. If you have questions or require additional information, contact an authorized Broadcom® Technical Support representative at ecd-tech.support@broadcom.com.

NOTE: For support on LPe16000-series and LPe12000-series adapters, use release 12.8 software.

Supported Operating Systems

The following table provides the supported Linux operating systems, their supported architectures, and their levels of support in the Emulex HBA Manager.

Table 1: Supported Operating Systems

Operating System	Architecture		Emulex HBA Manager Support	
	x86_64	Arm	Full	Limited CLI
RHEL 8.5-8.7, 9.0-9.1	X	—	X	—
Oracle Linux 8.4-8.7, 9.0-9.1 (RHEL equivalent)	X	—	X	—
Oracle Linux 8.x with UEK 6 or 7 kernel, 9.x with UEK 7 kernel	X	—	X	—
SLES 12 SP4-SP5, SLES 15 SP3-SP4	X	—	X	—
Ubuntu 20.04, 22.04	X	—	X (CLI only)	—
Citrix XenServer 7.2, Citrix Hypervisor 8.x	X	—	X (CLI only, bundled with driver)	—
FusionOS 22.0.1	X	—	—	X
RHEL 8.5-8.7, 9.0-9.1	—	X	—	X
Ubuntu 20.04, 22.04	—	X	—	X
openEuler 20.03 SP1, 20.03 SP3, 22.03	—	X	—	X
Kylin V10 SP1, SP2	—	X	—	X
UnionTech OS V20 1050E	—	X	—	X

The following Emulex HBA Manager CLI commands are supported for operating systems offering limited application support:

- `Download` – This command downloads a firmware image to the specified adapter.
- `Dump` – This command creates a diagnostic dump file in the `HbaCmd` dump file directory.
- `HbaAttributes` – This command displays a list of all adapter attributes for the adapter.
- `ListHBAs` – This command displays a list of the manageable Emulex adapters found by local discovery.
- `LoopBackTest` – This command runs any of several loopback tests on the specified adapter port.

For information about these commands, refer to the *Emulex HBA Manager Application Command Line Interface User Guide*.

New Features

1. Support was added to the Emulex HBA Manager CLI for forward error correction (FEC) error report handling on 64Gb/s HBAs.
2. Support was added to allow upgrades and downgrades using operating-system package managers such as `yum` and `zypper`.
3. NVMe support for the Ubuntu operating system on the x86_64 platform was added to the Emulex HBA Manager CLI.
4. The **Firmware Parameters** tab of the Emulex HBA Manager GUI was redesigned. The tab now resembles the **Host Driver Parameters** tab.
5. The following features are no longer supported. They will be disabled in a future release.
 - Fabric-assigned boot LUN (FABL)
 - Fabric-assigned Port World Wide Name (FA-PWWN)
 - OpenBoot (also known as *Fcode*)

Resolved Issues

1. When the Emulex HBA Manager application is run on a Linux host, batch parameter update errors are now added to the batch log.
2. You can no longer set a Subsystem NQN string that is not in the appropriate format.

Known Issues

There are no known issues in this release.

Technical Tips

1. On SLES 12 SP4, initiating a firmware dump might result in an error message similar to the following:

```
error: Invalid argument [arc/elx_lpe_35000_pci_device.app:TriggerFWDumps:510]
Consider adding "iomem=relaxed" to grub cfg kernel commandline.
[0x1000000090fa9483a2], [host8] [0000:01:00.0] Failed to trigger firmware dump.
```

If this message appears, perform the following steps:
 - a. Add the following kernel command line to the host grub configuration file:

```
iomem=relaxed
```
 - b. Reboot the host.
 - c. Repeat the process to initiate a firmware dump.

2. Interference can occur with the Emulex HBA Manager application's ability to permanently change WWNs.

Some adapters on some systems use techniques in the BIOS code at boot time to configure the adapter, such as the adapter WWN. In such cases, this might interfere with the Emulex HBA Manager application's ability to make permanent (nonvolatile) changes to the adapter's WWN.

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