

Lenovo System x Firmware and Boot Code Release

Notes for Emulex OneConnect OCe11100-series Adapters

Affected Products: Lenovo Virtual Fabric Adapters (VFA)
Version: 10.4.303.12
Date: June 2015

Purpose and Contact Information

These release notes describe the new features, resolved known issues, and current known issues associated with this release of the firmware and boot code for Emulex OneConnect® OCe11100-series adapters.

Note: Firmware version 10.4 is not supported on Lenovo Bladecenter or Flex systems.

For the latest product documentation, go to www.Emulex.com. If you have questions or require additional information, contact an authorized Emulex technical support representative at 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. Added support for Lenovo-branded versions of formerly IBM-branded products.
2. Added support for Lenovo xClarity for inventory management.

Resolved Issues from Firmware Version 10.3.144.0

1. Improved handling of ASU/UCM-deployed configurations.
2. Corrected an issue where, in FCoE configurations with OneConnect OCe11100-series adapters in UFP mode on System x3690 X5 servers, a UEFI rescan was required to boot to the operating system.

Known Issues

1. After making changes to any options in the Controller Configuration sub-menus in the Emulex UEFI NIC configuration utility and returning to the previous menu, there is no prompt to save the changes.

Note: This issue applies to some legacy rack and blade servers.

Workaround

Ensure that you select “Save” before exiting the configuration menu.

2. **When changing the multichannel mode, the system does not automatically reboot after exiting the F1 UEFI setup and continues through POST.**

Note: This issue applies to some legacy rack and blade servers.

Workaround

Manually reboot the server after exiting UEFI Setup to ensure that all changes are applied.

3. **VMware configurations with more than eight Emulex Ethernet interfaces may produce unexpected results.**

Workaround

Increase driver heap size by typing the following command:

```
# esxcfg-module -s heap_max=20971520 be2net
```

Up to 32 Ethernet interfaces are supported with this command.

4. **When operating in pNIC mode, the forwarding data base of the switch lists the Ethernet port base MAC address and also lists the port's MAC+1 address value.**

Workaround

None. This is expected behavior.

5. **A CRC error may occur when the transmitted jumbo packet size is larger than the jumbo packet receive size setting on the adapter.**

Workaround

Ensure the transmitted jumbo packet size is equal to the jumbo packet receive size set on the adapter. Refer to the specific operating system driver manual for additional information.

6. **SAN paths may not recover after the reboot or power cycle of an upstream switch.**

Workaround

The following options are available:

- Check multi-path configuration.
- Manually re-scan for targets.

7. **IPv6 address is not visible through the IMM GUI for Lenovo System x Option 90Y6456.**

Workaround

Use IPv4 instead of IPv6.

8. **Selecting "RECONNECT DEVICES" in the UEFI utility causes the selected storage port to move to the bottom of the list in System Settings.**

Workaround

None.

9. **RHEL 6.x and SLES 11 SPx inbox drivers may not boot when the adapter is in the iSCSI personality.**

Note: The driver update disk or package (DUD or DUP) must be used if the operating system is being installed while the adapter is in the iSCSI personality.

Workaround

- Install the latest out-of-box Linux iSCSI driver before using the iSCSI port.

-or-

- For the inbox Linux iSCSI driver, edit the grub menu during boot or in /boot/grub/menu.lst or /boot/efi/EFI/redhat/grub.conf:
add "maxcpus=4" at the line starting with "kernel".

- 10. The system may take an extended amount of time to boot when any one of the storage ports is down during system boot (when "Connecting boot devices and adapters" is displayed).**

Workaround

Ensure that all ports configured for SAN boot are properly connected to the storage target. If the target is no longer available, remove the SAN boot configuration from the ports.

- 11. With OCe11100-series adapters in converged mode configuration, FCoE data transmission may occasionally be stalled for a long duration (more than 30 seconds). As a result, FCoE I/O will time out.**

This issue is observed only when NIC traffic exceeds 6-7 Gbps. Once NIC traffic slows to under 6Gbps, FCoE functionality returns to normal.

Workaround

None.

- 12. When viewing OCe11102-N2-X adapter information within some Lenovo System x utilities, the interface type is displayed as "Unknown".**

Workaround

None.

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