

Firmware and Boot Code Release Notes for Emulex OneConnect OCe14000-Series Adapters

Versions: Firmware Version 10.0.803.37

Date: May 2014

Purpose and Contact Information

These release notes describe resolved known issues and current known issues associated with this release of the firmware and boot code for Emulex OneConnect™ OCe14000-series adapters.

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@emulex.com, 800-854-7112 (US/Canada toll free), +1 714-885-3402 (US/International), or +44 1189-772929 (Europe, Middle East, and Africa).

Resolved Issues from Firmware Version 10.0.803.23

Firmware Resolved Issues

1. **New flash regions were created to support features that will be available in future Emulex releases.**

Note:

- After you have updated the firmware, you **must not** downgrade the firmware to a version earlier than 10.0.803.37.
 - It is highly recommended that you perform this update before installing newer releases of Emulex firmware, such as 10.2.x.x.
2. **Resolved an issue in which universal multichannel (UMC) functions did not adhere to the bandwidth configured for each function.**

Known Issues

Firmware Known Issues

1. **Out of Box (OOB) Wake on LAN (WoL) is enabled by default with every power cycle. There is no way to change this behavior.**

WoL can be disabled via configuration software. This setting persists across reboots that continue to supply AUX power to the OCe14000-series adapter. A full power cycle of the system or 'warm' boot which results in AUX power disruption to the OCe14000-series adapter results in default behavior being restored.

Workaround

None.

2. **Port identification is not working properly on OCe14400-series 40Gb adapters.**

Workaround

None.

3. **I/O may fail if the firmware programs both Ethernet flow control and priority flow control.**

Workaround

None.

4. **Unexpected error may occur when enabling or disabling a port while traffic is running.**

Workaround

None.

5. **PHY and MAC loopback diagnostics may fail on Windows 2008 R2 systems.**

Workaround

None.

iSCSI UEFI Known Issues

1. **An iSCSI login does not display an error when providing invalid target information.**

Workaround

None.

PXESelect Known Issues

1. **After a firmware upload, the PXESelect utility may experience a delay of up to three minutes while displaying “Rebooting to Apply PCI Function Mapping Changes”.**

Workaround

None.

2. **Attempting to enter the PXESelect utility on an AMD-based system may result in an “Illegal Opcode” message and no access to the PXESelect utility.**

Workaround

None.

3. **PXESelect banner currently displays iSCSI and FCoE functions as NIC functions.**

Workaround

None.

PXE BootBIOS Known Issues

1. PXE BootBIOS screen displays OCe14400-series adapters as “Emulex 10Gb UNDI” during adapter initialization, which is incorrect.

Workaround

None.

2. Enabling UMC when SR-IOV is already enabled does not return a notification message stating that SR-IOV must be disabled.

When UMC is enabled, SR-IOV is automatically disabled without any notification.

Workaround

None.

iSCSISelect Known Issues

1. The iSCSISelect utility does not display the port number for network configuration.

Workaround

None.

2. Incorrect IP address is displayed when target login fails.

Workaround

None.

3. IPv6 formatting does not following RFC standards, which results in invalid IP address error message and a pop-up dialog box requesting that you re-enter the IP address.

Workaround

None.

4. Changing the target’s digest parameters may cause the boot LUN to revert to LUN 0.

Workaround

None. You must re-select the appropriate boot LUN.

5. Logging into multiple targets, including the boot target, from a single port may cause the boot target to get logged out after reboot.

Workaround

None.

6. iSCSI boot target is not persistent when it is logged into from two ports on a 4-port adapter.

Workaround

Only log into the iSCSI boot target from a single port.

7. **Discovery login CHAP authentication must be provided multiple times - once during discovery, once during log in, and when the boot flag is enabled.**

Workaround

None.

8. **iSCSISelect utility may attempt to connect to target even when “connect” option is not selected in iSCSI UEFI utility.**

Workaround

None.

9. **Rebooting the system after changing the iSCSI initiator name may corrupt the iSCSI initiator name causing it to display invalid characters, which may cause the iSCSI login to fail.**

Workaround

From the iSCSISelect utility, you must erase the configuration and reboot the system.

iSCSI BootBIOS Known Issues

1. **When entering the iSCSI BIOS on Windows 2008 x86 SP2 systems, an iSCSI Initiator Name mismatch error message may be displayed.**

The error message states:

“Error: There is an iSCSI Initiator Name mismatch for the OneConnect controllers in this system. Please use the iSCSI Initiator Configuration screen to set a single iSCSI Initiator Name for all controllers in the system.”

Workaround

None.

2. **iSCSI BootBIOS screen displays OCe14400-series adapters as “Emulex 10Gb UNDI” during adapter initialization, which is incorrect.**

Workaround

None.

FCoE Universal Boot Known Issues

1. **The Configure Boot Devices menu only scans for the next 16 LUNs from the starting LUN, which limits the LUNs displayed.**

Workaround

None.

Technical Tips

1. **Under SLES 11, the bond 5 and 6 modes must be configured properly to work with the firmware.**

When configuring the bond mode, change the default setting to include “updelay=100”. For example, the correct setting for bond 6 is `BONDING_MODULE_OPTS='mode=6 miimon=100 updelay=100'`.

2. **For Cisco switches, the access mode must be set in trunk mode, and native VLAN cannot be FCoE VLAN, that is, the FCoE VLAN must be in the allowed list. For example, if VLAN 2 is the FCoE VLAN and VLAN 1 is the Ethernet VLAN, you would enter the following:**
 - Switchport mode trunk
 - Switchport trunk native vlan 1
 - Switchport trunk allowed vlan 1-2
3. **For Brocade switches, trunk mode must be set in converged mode. For example, if VLAN 2 is the FCoE VLAN, you would enter the following:**
 - Switchport mode converged
 - Switchport converged allowed vlan add 2
4. **For best performance, disable the Spanning Tree Protocol (STP) on all networked switches if you are using the following:**
 - Adapter fault tolerance (AFT)
 - Automatic load balancing (ALB)
 - Static link aggregation teaming

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