Emulex Drivers for Windows Release Notes

Versions: FC and FCoE Version 2.72.012.001
NIC Version 4.2.390.6
iSCSI Version 4.2.281.0

Date: November 2012

Purpose and Contact Information

These release notes describe the resolved known issues and current known issues associated with this Emulex driver release for Windows.

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

1. **Adds support for NIC SR-IOV in Windows Server 2012.**
2. **Adds support for LPe16000B and LPe16002B adapters.**
3. **The DOS Ghost Cloning application successfully clones an operating system installation.**
4. **The storport miniport Fibre Channel driver supports up to 128 concurrent command and completion paths on LPe16000 and 16002 adapters.**

   The storport miniport Fibre Channel driver supports up to 128 command paths and 128 completion paths if the operating system platform has enough processors to scale to the 128 level.

   Previous limits are unchanged on earlier adapters and on CNAs.

Known Issues

1. **Link Aggregation Control Protocol (LACP) cannot be used on the same port as FCoE or iSCSI.**
2. **While up to 128 targets can be found on an iSCSI port, only a maximum of 64 targets can be discovered using the Add Portal option in the iSCSI Target Discovery dialog box.**

   Workaround

   Targets can be added manually or discovered through iSNS.
3. **Windows 7 is only supported on OneConnect OCe11102 UCNAs.**

   Workaround

   None.

4. **If you currently use a SCSIport Miniport or FC Port driver, the driver will be replaced when you install the Emulex Storport Miniport FC driver.**

   The FC driver will be installed for all HBAs on the server. You will also lose your customized driver parameters, persistent bindings, LUN masking, and LUN mapping. The default parameters set with AutoPilot Installer are usually be the best options.

   Workaround

   Note your current settings before you install the Emulex FC driver. After the installation, you can update your customized driver parameters.

5. **Crash Dump on Windows iSCSI Boot From SAN fails when the boot target is not among the first 7 targets configured in iSCSISelect/UEFI BIOS.**

   When a iSCSI Boot From SAN configuration has many iSCSI targets configured and the iSCSI boot target is not among the first 7 targets configured from iSCSISelect/UEFI BIOS, the crash dump function fails to complete successfully. This is a known limitation of the iSCSI driver on Windows.

   Workaround

   From iSCSI Select/UEFI BIOS, the boot target must be configured before the other persistent targets are setup so that they are within the first 7 targets.

6. **In a Boot From SAN configuration of Windows 2008 R2 and Windows 7, if MPIO is enabled and the pagefile is configured on a DAS volume, updating the boot driver causes a system crash.**

   The MPIO driver, claiming the boot LUN, incorrectly allows the boot LUN to be disabled during a driver update. This leads to a system crash.

   Workaround

   Microsoft has released a hotfix that remedies this problem. Download and install information for the hotfix at http://support.microsoft.com/?id=2591462

7. **If Device Manager is used to uninstall Emulex devices on Windows 2008 and Windows 2008 SP2 (not Windows 2008 R2), you must do one of the following before installing the Windows driver package. Otherwise, the driver will not be installed.**

   - Run "Scan for hardware changes" from the Device Manager.

   -or-

   - Reboot the system.

Windows Driver Manual Known Issues

These issues are applicable to the Windows Driver Manual.

1. **There are two missing error codes in Appendix A of the manual.**

   The following error codes are missing from Table A-1 Severe Errors

Bits 0 – 7	Interpretation
0xE0	Unable to allocate exchange for unsolicited ELS command
0xE1	Mis-configured ports event on indicated port, link, and status. (Bits 31-24: Port ID; Bits 23-16: Link ID; Bits 15-8: Link status.)