



OneConnectTM
OCe10102-NX-XI
10 GbE Integrated Virtual
Fabric Adapter for IBM[®]
System x[®]

Release Notes for OneConnect SW version 5.0.31

Copyright © 2010 Emulex. All rights reserved worldwide. No part of this document may be reproduced by any means or translated to any electronic medium without the prior written consent of Emulex.

Information furnished by Emulex is believed to be accurate and reliable. However, no responsibility is assumed by Emulex for its use; or for any infringements of patents or other rights of third parties which may result from its use. No license is granted by implication or otherwise under any patent, copyright or related rights of Emulex.

Emulex, the Emulex logo, AutoPilot Installer, AutoPilot Manager, BlockGuard, Connectivity Continuum, Convergenomics, Emulex Connect, Emulex Secure, EZPilot, FibreSpy, HBAnyware, InSpeed, LightPulse, MultiPulse, OneCommand, OneConnect, One Network. One Company., One Network, One Company, Connect with Emulex, SBOD, SLI, and VEngine are trademarks of Emulex. All other brand or product names referenced herein are trademarks or registered trademarks of their respective companies or organizations.

Emulex provides this manual "as is" without any warranty of any kind, either expressed or implied, including but not limited to the implied warranties of merchantability or fitness for a particular purpose. Emulex may make improvements and changes to the product described in this manual at any time and without any notice. Emulex assumes no responsibility for its use, nor for any infringements of patents or other rights of third parties that may result. Periodic changes are made to information contained herein; although these changes will be incorporated into new editions of this manual, Emulex disclaims any undertaking to give notice of such changes.

Emulex, 3333 Susan Street
Costa Mesa, CA 92626

Introduction.....	1
OCe10102-NX-XI Integrated VFA Overview	1
OCe10102-NX-XI Integrated VFA Key Points	1
New Features	2
Supported Operating Systems and Versions	2
Updating the Firmware	2
Resolved Issues	2
Firmware version 2.101.411.14	2
Firmware version 2.101.411.9	2
Windows Driver 2.101.411.11	3
Known Issues	3
Installing the Ethernet Driver	3

Introduction

This document contains important information about the Emulex[®] OneConnect[™] OCe10102-NX-XI 10 GbE Integrated Virtual Fabric Adapter (VFA) for IBM[®] System x[®].

This document includes the following sections:

- Overview of the product.
- Key points.
- The various operating systems that support the Integrated VFA.
- Instructions for updating the Emulex OneConnect firmware.
- Resolved issues in this release.
- Known issues in this release.
- Instructions for manually installing the NIC Windows driver version 2.101.411.11.

OCe10102-NX-XI Integrated VFA Overview

The OCe10102-NX-XI Integrated VFA provides traditional network interface card (NIC) functionality for a 10-gigabit (Gb) Enhanced Ethernet (EE) fabric. Highlights of this release include:

- Support for the Emulex OneCommand Manager application.
- Support for dual port 10Gb Ethernet adapter.
- User documentation includes:
 - *OneCommand Manager User Manual*: Describes how to use the OneCommand Manager management application.
 - *Firmware Update Manual*: Provides a reference to Emulex applications that include firmware update capability.
 - Operating system—specific documentation: May include driver user manuals, quick installation guides, and release notes.

Note: The driver versions listed in the operating system—specific documentation may not match the driver versions provided for the VFA. If this is the case, any differences in functionality are listed in the New Features section of the *Emulex OneConnect OCe10102-NX-XI 10 GbE IVFA for IBM[®] System x[®] Release Notes* (this document).

- *Emulex OneConnect OCe10102-NX-XI 10 GbE Integrated Virtual Fabric Adapter for IBM[®] System x[®] Release Notes* (this document).
- *OneCommand NIC Teaming and VLAN Manager User Manual (for Windows only)*: Provides instructions for configuring NIC teaming functionality.
- *Boot Manual*: Provides instructions for UEFI boot.

OCe10102-NX-XI Integrated VFA Key Points

- The OCe10102-NX-XI Integrated VFA is pre-installed in a custom connector on your system.
- The OCe10102-NX-XI Integrated VFA will not function properly in any other PCI slot of this, or any other system.
- If more 10 GbE ports are needed, purchase the Emulex OneConnect OCe10102-NX-X 10 GbE Virtual Fabric Adapter (VFA) for IBM System x.

- The OCe10102-NX-XI Integrated VFA can be distinguished from the optional adapter by its blue versus green board color.

New Features

- Support for more than three adapters in a single system.
- Support for more than 32 CPUs in Windows R2.
- Support for vNIC with the Blade Network Technologies (BNT) 8124 top of rack switch.

Supported Operating Systems and Versions

- Microsoft Windows Server 2003
- Microsoft Windows Server 2008
- Microsoft Windows Server 2008 R2
- Red Hat Enterprise Linux 5 Update 3
- Red Hat Enterprise Linux 5 Update 4
- SUSE Linux Enterprise Server 10 SP2
- SUSE Linux Enterprise Server 10 SP3
- SUSE Linux Enterprise Server 11
- VMware ESX 4.0

Note: Windows and Linux operating systems are supported for x86 and x64 system architectures.

Updating the Firmware

- The *Firmware Update Manual* provides a reference to Emulex applications that include firmware update capability.
- The *Elxflash User Manual* provides information about the Linux ElxflashOffline NIC Kit, which you must use to perform firmware download to the inbox NIC drivers on RedHat operating systems.

Resolved Issues

Firmware version 2.101.411.14

1. Firmware fix to formally support vNIC on IBM two socket x86 servers with the BNT 8124 top of rack switch.

Firmware version 2.101.411.9

1. More than three Emulex 10 Gb adapters are now supported in the x3850 x5 and x3950 x5 servers. If less than three adapters are in the server, you can continue to use firmware version 2.101.411.2.

2. IBM System x now supports more than two adapters in a single server that includes OneConnect™ OCe10102-NX-XI-10 GbE Integrated (VFA) for IBM System x. If only one adapter is in the server, you can continue to use firmware version 2.101.411.2.
3. IBM System x now supports more than three adapters in a single server without an OneConnect™ OCe10102-NX-XI-10 GbE Integrated (VFA) for IBM System x. If less than three adapters are in the server, you can continue to use firmware version 2.101.411.2.

Windows Driver 2.101.411.11

1. Support for more than 32 CPU cores in a server system. A multi-node, IBM System x x3950 x5 is an example of such a system.

Known Issues

This section lists the known issues associated with this release. If you have any questions or require additional information, contact an authorized Emulex technical representative.

1. No more than two adapters are supported in IBM servers with legacy BIOS. Consult IBM support for more information.

Installing the Ethernet Driver

To update the NIC driver manually:

1. Extract the files from 2.101.411.11 driver .zip kit into an available directory such as C:\Program Files\Emulex\AutoPilot Installer\NIC\Drivers\NDIS\x64\2.101.411.11.
2. Select **Start>Settings>Control Panel>System**.
3. Select the **Hardware** tab.
4. Click **Device Manager**.
5. Open the "Network Adapters" item.
6. Double-click the desired Emulex adapter.
7. Select the **Driver** tab.
8. Click **Update Driver**. The Update Driver wizard starts.
9. Select **No, not this time**. Click **Next** on the Welcome to the Hardware Update Wizard window.
10. Select **Install from a list or specific location (Advanced)** and click **Next**.
11. Select **Don't search**. I will choose the driver to install and click **Next**.
12. Click **Have Disk...** Direct the Device Wizard to the location of oemsetup.inf. If you have installed the driver installer kit to the default folder, the path is:
C:\Program Files\Emulex\AutoPilot Installer\NIC\Drivers\NDIS\x64\[Windows Version]
13. Click **OK**. Select **Emulex OneConnect OCeXXXXX, NIC/TOE** (your adapter model will be displayed here).
14. Click **Next**.
15. Click **Finish**.

The driver installation is complete. The driver should start automatically.