

# Emulex OneConnect NIC Teaming and Multiple VLAN Driver and Application Release Notes

**Version (Kit):** 2.7.2

**Date:** November 2012

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## Purpose and Contact Information

These release notes describe the installation information, resolved known issues, and current known issues associated with this Emulex<sup>®</sup> OneConnect<sup>™</sup> NIC Teaming and Multiple VLAN Driver and Application release.

For the latest product documentation, go to [www.Emulex.com](http://www.Emulex.com). If you have questions or require additional information, contact an authorized Emulex technical support representative at [tech.support@emulex.com](mailto:tech.support@emulex.com), 800-854-7112, or +1 714-885-3402.

## Installation Notes and Warnings

You can update the base NIC driver, NIC firmware, and NIC teaming code in any order because the NIC teaming code is independent of the base NIC driver and firmware. However, when you upgrade the base driver, ensure it is an update, and not an uninstall or re-install. If the base NIC driver is uninstalled or re-installed, all of the NIC teams will be assigned new GUIDs, which will cause all of the current NIC team definitions to be invalid.

Use the version 2.7.2 Emulex-provided kit to install, update, or uninstall the NIC teaming software. Do not use a previous version of the teaming utilities to install, update, or uninstall the OneCommand<sup>™</sup> NIC Teaming driver and NIC Teaming and VLAN Manager. If you do, unpredictable results will occur.

Do not update or uninstall the OneCommand NIC Teaming driver and NIC Teaming and VLAN Manager while I/O traffic is running. If you do, unpredictable results may occur.

## Supported Operating Systems

The NIC Teaming driver supports the following operating systems:

- Windows Server 2012 x64
- Windows Server 2012 Server Core x64
- Windows Server 2008 x64 SP2
- Windows Server 2008 x64 R2
- Windows Server 2008 x64 R2 Server Core
- Windows Server 2008 x64 R2 with Hyper-V
- Windows Server 2008 x64 R2 SP1
- Windows Server 2008 x64 R2 SP1 Server Core
- Windows Server 2008 x64 R2 SP1 with Hyper-V

## Resolved Issues

1. Failover on a load balancing team no longer encounters a GARP storm.
2. VLANs can now be added to the Load Balancing teams without causing system instability.
3. Load re-balancing on link failure has been enhanced.
4. Load Balancing teams running TOE can now process offload requests during traffic disruptions.
5. TOE off-loading resumes after a traffic disruption.
6. Failover now works when TOE is enabled.
7. Load balancing now works when TOE is enabled.
8. Adding a team member that does not support TOE to a Load Balancing team with TOE enabled will disable TOE. TOE remains disabled when the team member is removed.
9. The LACP team does not fail during a switch power-off.
10. Failover team performance now handles correctly during failback reactivation delay.
11. Disabled adapters are now unbound from teaming during the PostUpgrade process.
12. The GUI is now able to successfully create teams. RSS is now functional with team members.

## Known Issues

1. Earlier releases of NIC Teaming may not be installed on systems that had NIC Teaming 2.7 previously installed.  
**Workaround**  
None.
2. During the creation or deletion of teams, or adding or removing VLANs to teams or adapters, the Microsoft server module might generate error 2505 messages in the event log. This message can be generated when a single machine has more than one connection to the same subnet.  
**Workaround**  
None.
3. When adding VLANS to teams, the NetBT module might generate event log entries with an event ID of 4311.  
**Workaround**  
None.
4. Microsoft Networking bridging should not be used to bridge teams or VLANS.  
**Workaround**  
None.

- 5. For configuration changes, disabling adapters, teams or VLANs using the Windows Device Manager or Network Connection Property sheet is not supported.**

For the purpose of making teaming configuration changes, the disabling of adapters, teams or VLANs using the Windows Device Manager or Network Connection Property sheet is not supported. However for the purpose of testing the data path of established teams, such disabling is supported. Remember to re-enable any disabled adapters, teams or VLANs before changing the team's configuration.

**Workaround**

None.

- 6. Teams cannot be uninstalled from the Windows Device Manager.**

**Workaround**

Use the NIC Teaming Manager GUI or CLI to uninstall teams.

- 7. Differences in BIOS and motherboard versions can cause servers with identical model numbers to have different PCI slot addresses.**

Restoration of backup files cannot be performed on these systems.

**Workaround**

Manually duplicate the NIC teaming configurations.

- 8. When upgrading a configuration containing VLANs over teams from NIC Teaming 2.5 or NIC Teaming 2.6 to NIC Teaming 2.7, the team instance will be visible in Network Manager.**

**Workaround**

Do not change the bindings of such an instance.

- 9. When upgrading from NIC Teaming 2.6 or NIC Teaming 2.6 to NIC Teaming 2.7, a reboot is required. You must log back into the system after the reboot for the reboot to complete.**

**Workaround**

None.

- 10. When adapters are deleted from teams created with NIC Teaming versions prior to 2.7, the may end up with incorrect MAC addresses.**

**Workaround**

Use the adapter's Property Sheets in Device Manager to reset the MAC addresses after the team is deleted.

- 11. Windows 2008 SP2 systems fail to display team MAC Addresses.**

While the GUI and CLI are displaying detailed information on a team, the team's MAC address field is blank.

**Work around**

Use the GUI or CLI to view the details of the team's primary adapter. Its MAC address is the same as the team's MAC address.

## Technical Tips

1. Emulex recommends that you do not make any configuration changes while I/O traffic is running. Various issues, including system lock ups and I/O disconnection, may occur.
2. To view online help using the Google Chrome browser, you must disable Chrome's security check using the "--allow-file-access-from-files" option.
  - a) Create a copy of the Chrome shortcut on the desktop and rename it RH Chrome Local (or something similar).
  - b) Right-click on the new Chrome icon and choose **Properties**.
  - c) Add the "--allow-file-access-from-files" text to the end of the path appearing in Target. You must leave a space between the original string and the tag you are adding to the end of it.
  - d) Click **OK** to save your settings.
  - e) Close any open instances of Chrome.
  - f) To open a local copy of the online help, use the new shortcut to open Chrome, then press **Ctrl + Open** and browse to the start page; or open Chrome with the new shortcut, then right-click the start page and click **Open With > Google Chrome**.

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