



Mellanox NATIVE ESX Driver for VMware vSphere 6.0 Release Notes

Rev 3.1.0

NOTE:

THIS HARDWARE, SOFTWARE OR TEST SUITE PRODUCT ("PRODUCT(S)") AND ITS RELATED DOCUMENTATION ARE PROVIDED BY MELLANOX TECHNOLOGIES "AS-IS" WITH ALL FAULTS OF ANY KIND AND SOLELY FOR THE PURPOSE OF AIDING THE CUSTOMER IN TESTING APPLICATIONS THAT USE THE PRODUCTS IN DESIGNATED SOLUTIONS. THE CUSTOMER'S MANUFACTURING TEST ENVIRONMENT HAS NOT MET THE STANDARDS SET BY MELLANOX TECHNOLOGIES TO FULLY QUALIFY THE PRODUCT(S) AND/OR THE SYSTEM USING IT. THEREFORE, MELLANOX TECHNOLOGIES CANNOT AND DOES NOT GUARANTEE OR WARRANT THAT THE PRODUCTS WILL OPERATE WITH THE HIGHEST QUALITY. ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT ARE DISCLAIMED. IN NO EVENT SHALL MELLANOX BE LIABLE TO CUSTOMER OR ANY THIRD PARTIES FOR ANY DIRECT, INDIRECT, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES OF ANY KIND (INCLUDING, BUT NOT LIMITED TO, PAYMENT FOR PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY FROM THE USE OF THE PRODUCT(S) AND RELATED DOCUMENTATION EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



Mellanox Technologies
350 Oakmead Parkway Suite 100
Sunnyvale, CA 94085
U.S.A.
www.mellanox.com
Tel: (408) 970-3400
Fax: (408) 970-3403

Mellanox Technologies, Ltd.
Hakidma 26
Ofar Industrial Park
Yokneam 2069200
Israel
www.mellanox.com
Tel: +972 (0)74 723 7200
Fax: +972 (0)4 959 3245

© Copyright 2015. Mellanox Technologies. All Rights Reserved.

Mellanox®, Mellanox logo, BridgeX®, ConnectX®, Connect-IB®, CoolBox®, CORE-Direct®, GPUDirect®, InfiniBridge®, InfiniHost®, InfiniScale®, Kotura®, Kotura logo, MetroX®, MLNX-OS®, PhyX®, ScalableHPC®, SwitchX®, TestX®, UFM®, Virtual Protocol Interconnect®, Voltaire® and Voltaire logo are registered trademarks of Mellanox Technologies, Ltd.

ExtendX™, FabricIT™, FPGADirect™, HPC-X™, Mellanox Care™, Mellanox CloudX™, Mellanox Open Ethernet™, Mellanox PeerDirect™, Mellanox Virtual Modular Switch™, MetroDX™, NVMeDirect™, Switch-IB™, Unbreakable-Link™ are trademarks of Mellanox Technologies, Ltd.

All other trademarks are property of their respective owners.

Table of Contents

Table of Contents	3
List Of Tables	4
Release Update History	5
Chapter 1 Overview	6
1.1 Legacy Features Overview	6
Chapter 2 Main Features in This Release	6
Chapter 3 Content of MLNX-NATIVE-ESX Package	6
Chapter 4 Supported HCAs	6
Chapter 5 Known Issues	7
Chapter 6 Bug Fixes History	8

List Of Tables

Table 1: Release Update History5

Release Update History

Table 1 - Release Update History

Release	Date	Description
Rev 3.1.0	May 2015	Initial version

1 Overview

These are the release notes of "Mellanox Native Driver for VMware® vSphere 2015". This document provides instructions on drivers for Mellanox Technologies ConnectX® based adapter cards with VMware ESXi Server environment.

1.1 Legacy Features Overview

- Single/Dual port
- MSI-X
- NetQueue support
- Multiple Tx/Rx rings
- Large Send Offload (TCP Segmentation Offload)
- WoL (only on supported hardware)
- RSS Queues
- Fixed Pass-Through
- 10G
- 40G

2 Main Features in This Release

MLNX-NATIVE-ESX-3.1.0.0 provides the following changes and new features:

- Management Interface support

3 Content of MLNX-NATIVE-ESX Package

The MLNX-NATIVE-ESX driver package is distributed as an offline bundle (.zip file) and contains:

- MLNX-NATIVE-ESX-3.1.0.0-10EM-600.0.0.2348722.zip - Hypervisor bundle for ESXi 2015 bundle contains the following kernel modules:
 - nmlx4_core (ConnectX family low-level PCI driver)
 - nmlx4_en (Mellanox Technologies Ethernet driver)
- nmlx_en_mgmtInterface.tar.gz - management interface tarball

4 Supported HCAs

MLNX-NATIVE-ESX Rev 3.1.0 supports the following Mellanox Ethernet HCA:

- ConnectX-3 Pro: 2.33.5100
- ConnectX-3: 2.33.5100

Please note that older firmware versions were not tested with this release.

For the latest firmware versions, visit:

- http://www.mellanox.com/page/vmware_matrix
or
- <http://www.mellanox.com/supportdownloader/>

5 Known Issues

- None

6 Bug Fixes History

- None