

# Mellanox NATIVE ESX Driver for VMware vSphere 6.5 Release Notes

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Rev 3.16.70.2

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## Release Update History

*Table 1 - Release Update History*

Release	Date	Description
Rev 3.16.70.2	May 3, 2020	Initial release of this MLNX-NATIVE-ESX 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 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-ConnectX-4-5\_4.16.70.2-1OEM.650.0.0.4598673.zip

Driver bundle for ESXi 6.5 contains the following kernel modules:

- nmlx4\_core (ConnectX family low-level PCI driver)
- nmlx4\_en (Mellanox Technologies Ethernet driver)
- nmlx4\_rdma (Mellanox Technologies RDMA driver)
- nmlx\_en\_mgmtInterface.tar.gz - management interface tarball

## 1.2 Supported HCAs Firmware Versions

MLNX-NATIVE-ESX v3.16.70.2 supports the following Mellanox Ethernet HCA:

**Table 2 - Supported HCAs Firmware Versions**

HCAs	Recommended Firmware Rev.	Additional Firmware Rev.
ConnectX-3 Pro	2.42.5000	2.36.5000
ConnectX-3	2.42.5000	2.36.5000

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](http://www.mellanox.com/page/vmware_matrix)

## 2 Changes and New Features in Rev 3.16.70.2

*Table 3 - Changes and New Features in Rev 3.16.70.2*

Category	Description
PSID in Privstats (Private statistics)	Adapter card's PSID is now displayed in the Privstats (Private statistics).

### 3 Known Issues

The following is a list of general limitations and known issues of the various components of this MLNX-NATIVE-ESX release.

**Table 4 - Known Issues**

#	Description	Workaround
1.	<b>RM#1117422:</b> ConnectX-3 Pro 10G adapter cards wrongly report support for 40G speed when running the "esxcli network nic get" command.	N/A
2.	When the port is DOWN, the management interface port type field (nmlx_en_MgmtIFPortType) indicates one of the port types supported by the device, in the following order: TP, FIBER, DA, NONE. If the cable supports several types, the first type in the list mentioned above will be printed.	N/A
3.	When the port is UP, the management interface port type field (nmlx_en_MgmtIFPortType) indicates which one of all possible supported types is currently connected.	N/A
4.	Management interface port type field (nmlx_en_MgmtIFPortType) reports SFP-to-RJ45 cable as FIBER.	N/A
5.	Management interface auto negotiation field (nmlx_en_MgmtIFAutoNegMode) is equivalent to "esxcli network nic get -n vmnicX" field "Pause Autonegotiate"	N/A