



# Mellanox ConnectX-3 ESXi 6.0 Inbox Driver

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Rev 1.0

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## Table of Contents

<b>Table of Contents</b> .....	<b>3</b>
<b>List Of Tables</b> .....	<b>4</b>
<b>Release Update History</b> .....	<b>5</b>
<b>Chapter 1 Overview</b> .....	<b>6</b>
1.1 Supported HCAs Firmware Versions .....	6
<b>Chapter 2 Changes and New Features in Rev 1.0</b> .....	<b>7</b>
<b>Chapter 3 Known Issues</b> .....	<b>8</b>

## List Of Tables

Table 1:	Release Update History.....	5
Table 2:	Supported Uplinks to Servers.....	6
Table 3:	Supported HCAs Firmware Versions.....	6
Table 4:	Changes and New Features.....	7
Table 5:	Known Issues.....	8

## Release Update History

*Table 1 - Release Update History*

Release	Date	Description
Rev 1.0	August 14, 2017	Added Known Issues 1117422 (see <a href="#">Section 3, "Known Issues"</a> , on page 8)
	December 9, 2016	Initial version of this release

# 1 Overview

These are the release notes of Mellanox ConnectX- ESXi 6.0 Inbox Driver. Mellanox ConnectX- ESXi 6.0 Inbox Driver supports the following uplinks to servers

**Table 2 - Supported Uplinks to Servers**

Version	OS	Uplink Speed
Rev 1.0	ESXi 6.0	10/40GbE

## 1.1 Supported HCAs Firmware Versions

Mellanox ConnectX- ESXi 6.0 Inbox Driver Rev 1.0 supports the following Mellanox Ethernet HCA:

**Table 3 - Supported HCAs Firmware Versions**

HCAs	Recommended Firmware Rev.
ConnectX-3	2.40.5000
ConnectX-3 Pro	2.40.5000

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

## 2 Changes and New Features in Rev 1.0

**Table 4 - Changes and New Features**

Feature/Change	Description
NetQueue	NetQueue is a performance technology in VMware ESXi that significantly improves performance in Ethernet virtualized environments.
Wake-on-LAN (WoL)	Allows a network administrator to remotely power on a system or to wake it up from the sleep mode.
Hardware Offload	<ul style="list-style-type: none"> <li>• Large Send Offload (TCP Segmentation Offload)</li> <li>• Checksum Offload</li> </ul>
Hardware Capabilities	<ul style="list-style-type: none"> <li>• Multiple Tx/Rx rings</li> <li>• Fixed Pass-Through</li> <li>• Single/Dual port</li> <li>• MSI-X</li> <li>• Interrupt moderation</li> </ul>
Ethernet Network	<ul style="list-style-type: none"> <li>• TX/RX checksum</li> <li>• Auto moderation and Coalescing</li> <li>• VLAN stripping offload</li> </ul>
NetQ RSS	<p>Allows the user to configure multiple hardware queues to back up a single RX queue. NetQ RSS improves vMotion performance and multiple streams of IPv4/IPv6 TCP/UDP/IPSEC bandwidth over single interface between the Virtual Machines.</p> <p>For further information, see the User Manual section “<i>NetQ RSS</i>”.</p>

### 3 Known Issues

The following is a list of general limitations and known issues of the various components of this Mellanox ConnectX- ESXi 6.0 Inbox Driver release.

**Table 5 - 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