



# Mellanox ConnectX-3 ESXi 6.5 Inbox Driver

## Release Notes

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Rev 1.0

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## Release Update History

*Table 1 - Release Update History*

Release	Date	Description
Rev 1.0	December 9, 2016	Initial version of this release

# 1 Overview

These are the release notes of Mellanox ConnectX-3 ESXi 6.5 Inbox Driver. Mellanox ConnectX-3 ESXi 6.5 Inbox Driver supports the following uplinks to servers

**Table 2 - Supported Uplinks to Servers**

Version	OS	Uplink Speed
Rev 1.0	ESXi 6.5	10/40GbE

## 1.1 Supported HCAs Firmware Versions

Mellanox ConnectX-3 ESXi 6.5 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
Remote Direct Memory Access (RDMA)	Remote Direct Memory Access (RDMA) is the remote memory management capability that allows server-to-server data movement directly between application memory without any CPU involvement.
VXLAN Hardware Stateless Offloads	VXLAN hardware offload enables the traditional offloads to be performed on the encapsulated traffic.
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	Allows the user to configure multiple hardware queues backing up the 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. For further information, see the User Manual section “ <i>NetQ RSS</i> ”.
Data Center Bridging (DCB)	A set of enhancements to the Ethernet local area network communication protocol for use in data center environments, in particular for use with clustering and storage area networks.