



Mellanox ConnectX-4 ESXi 6.5 Inbox Driver

Release Notes

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-4 ESXi 6.5 Inbox Driver. Mellanox ConnectX-4 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	10/25/40/50/100GbE

1.1 Supported HCAs Firmware Versions

Mellanox ConnectX-4 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-4	12.17.2020
ConnectX-4 Lx	14.17.2020

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/>

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"> • Large Send Offload (TCP Segmentation Offload) • Checksum Offload
Hardware Capabilities	<ul style="list-style-type: none"> • Multiple Tx/Rx rings • Fixed Pass-Through • Single/Dual port • MSI-X • Interrupt moderation
Ethernet Network	<ul style="list-style-type: none"> • TX/RX checksum • Auto moderation and Coalescing • VLAN stripping offload
NetQ RSS	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. For further information, see the User Manual section “ <i>NetQ RSS</i> ”.
Device RSS	Allows the user to configure all hardware queues to back up a single default RX queue system wide.
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.