



Mellanox ConnectX-3 ESXi 6.7 Inbox Driver Release Notes

Rev 3.17.9.12-vmw

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Release Update History

Table 1 - Release Update History

Release	Date	Description
Rev 3.17.9.12-vmw	July 26, 2018	Initial version of this release

1 Overview

These are the release notes of Mellanox ConnectX-3 ESXi 6.7 Inbox Driver. Mellanox ConnectX-3 ESXi 6.7 Inbox Driver supports the following uplinks to servers

Table 2 - Supported Uplinks to Servers

Version	OS	Uplink Speed
Rev 3.17.9.12-vmw	ESXi 6.7	1/10/4056/GbE

1.1 Supported HCAs Firmware Versions

Mellanox ConnectX-3 ESXi 6.7 Inbox Driver Rev 3.17.9.12-vmw 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

For the latest firmware versions, visit:

- http://www.mellanox.com/page/products_dyn?product_family=29

2 Changes and New Features in Rev 3.17.9.12-vmw

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. Note: It is recommended to use RoCE with PFC enabled in driver and network switches. For how to enable PFC in the driver see section <i>Priority Flow Control (PFC)</i> in the User Manual.
VXLAN Hardware Stateless Offloads	Added support for VXLAN hardware offload. VXLAN hardware offload enables the traditional offloads to be performed on the encapsulated traffic. With ConnectX®-3 Pro, data center operators can decouple the overlay network layer from the physical NIC performance, thus achieving native performance in the new network architecture.
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)
Hardware Capabilities	<ul style="list-style-type: none"> • Multiple Tx/Rx rings • Fixed Pass-Through • Single/Dual port • MSI-X
Ethernet Network	<ul style="list-style-type: none"> • TX/RX checksum • Auto moderation and Coalescing • VLAN stripping offload
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.