



Ubuntu 16.10 Inbox Driver Release Notes

Ubuntu 16.10

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1 Overview

These are the release notes of Ubuntu 16.10 Inbox Driver. This document provides instructions on drivers for Mellanox Technologies ConnectX® based adapter cards with Ubuntu 16.10 Inbox Driver environment.

This version supports the following uplinks to servers:

Table 1 - Supported Uplinks to Servers

Uplink/HCA	Uplink Speed
ConnectX®-4	<ul style="list-style-type: none"> Ethernet: 1GigE, 10GigE, 25GigE, 40GigE, 50GigE, 56GigE^a, and 100GigE
ConnectX®-4 Lx	<ul style="list-style-type: none"> Ethernet: 1GigE, 10GigE, 25GigE, 40GigE, and 50GigE
Connect-IB®	<ul style="list-style-type: none"> InfiniBand: SDR, QDR, FDR10, FDR
ConnectX®-3/ConnectX®-3 Pro	<ul style="list-style-type: none"> InfiniBand: SDR, QDR, FDR10, FDR Ethernet: 10GigE, 40GigE and 56GigE^a

- a. 56GbE is a Mellanox propriety link speed and can be achieved while connecting a Mellanox adapter cards to Mellanox SX10XX switch series or connecting a Mellanox adapter card to another Mellanox adapter card.

1.1 Supported HCAs Firmware Versions

Ubuntu 16.10 Inbox Driver Ubuntu 16.10 supports the following Mellanox network adapter cards firmware versions:

Table 2 - Supported HCAs Firmware Versions

HCA	Recommended Firmware Rev.	Additional Firmware Rev. Supported
Connect-IB®	10.16.1006	N/A
ConnectX®-4 Lx	14.17.2020	N/A
ConnectX®-4	12.17.2020	N/A
ConnectX®-3 Pro	2.40.5000	N/A
ConnectX®-3	2.40.5000	N/A

2 Known Issues

The following table describes known issues in this release and possible workarounds..

Table 3 - Known Issues

Internal Ref.	Description
742682	Description: Missing "srptools" packages in ppc64le architecture.
	WA: N/A
	Keywords: stptools
554392	Description: RDMA and IB drivers need to be loaded manually after boot.
	WA: Install an RDMA service: 1. apt install software-properties-common 2. add-apt-repository ppa:talat-b87/rdmappa 3. apt-get update 4. apt-get install rdma 5. systemctl start rdma.service
	Keywords: RDMA and IB drivers, Manual loading
684897	Description: On rare occasions, ConnectX-3 linkup takes longer than expected, resulting in delay of link-local address generation and DHCP client failure.
	WA: Add <code>ll-attempts 120</code> to the network interface configuration file.
	Keywords: IPv6 address, VLAN, ifdown/ifup interface