mlxup - Mellanox Firmware Utility
Release Notes

Rev 4.13.0
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## Release Update History

*Table 1 - Release Update History*

<table>
<thead>
<tr>
<th>Release</th>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rev 4.13.0</td>
<td>October 16, 2019</td>
<td>Initial version of this mlxup release.</td>
</tr>
</tbody>
</table>
1 Overview

These are the release notes for mlxup. mlxup is a Mellanox firmware utility that enables scanning the server machine for available Mellanox adapters and indicates whether firmware update is required for each adapter.

This utility simplifies the procedure of firmware upgrade and is currently available for ConnectX® family adapter cards and Connect-IB™ Mellanox cards only (see Section 1.2, “Supported Adapters Firmware Versions,” on page 7).

1.1 Supported Operating Systems and Platforms

For the complete list, please refer to MFT documentation: https://docs.mellanox.com/ --> Software --> Firmware Management --> MFT
1.2 **Supported Adapters Firmware Versions**

MLXUP Rev 4.13.0 supports the following Mellanox network adapter cards firmware versions:

*Table 2 - Supported Adapters Firmware Versions*

<table>
<thead>
<tr>
<th>Supported Adapters</th>
<th>Current Firmware Rev.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ConnectX®-3 VPI</td>
<td>2.42.5000</td>
</tr>
<tr>
<td>ConnectX®-3 EN</td>
<td></td>
</tr>
<tr>
<td>ConnectX®-3 Pro VPI</td>
<td></td>
</tr>
<tr>
<td>ConnectX®-3 Pro EN</td>
<td></td>
</tr>
<tr>
<td>Connect-IB™</td>
<td>10.16.1200</td>
</tr>
<tr>
<td>ConnectX®-4</td>
<td>12.26.1040</td>
</tr>
<tr>
<td>ConnectX®-4 Lx</td>
<td>14.26.1040</td>
</tr>
<tr>
<td>ConnectX®-5</td>
<td>16.26.1040</td>
</tr>
<tr>
<td>ConnectX®-5 Ex</td>
<td>16.26.1040</td>
</tr>
<tr>
<td>ConnectX®-6</td>
<td>20.26.1040</td>
</tr>
<tr>
<td>BlueField</td>
<td>18.26.1040</td>
</tr>
</tbody>
</table>

The firmware versions above are only for Mellanox cards. For OEM cards, mlxup may contain different firmware versions.
## Changes and New Features in Rev 4.13.0

Table 3 - Changes and New Features in Rev 4.13.0

<table>
<thead>
<tr>
<th>Feature/Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Systems</td>
<td>Updated Operating Systems list, added ConnectX®-6. See Section 1.1, on page 6</td>
</tr>
<tr>
<td>Firmware</td>
<td>Updated firmware version for ConnectX®-3/ConnectX®-3 Pro/ConnectX®-4, ConnectX®-4 Lx, ConnectX®-5 and BlueField. See Section 1.2, on page 7</td>
</tr>
</tbody>
</table>
3 Known Issues

The following table provides a list of known bugs and limitations in regards to this release of the mlxup.

Table 4 - Known Bugs and Limitations

<table>
<thead>
<tr>
<th>Internal Ref.</th>
<th>Issue</th>
</tr>
</thead>
</table>
| 669272        | **Description:** In VMware ESXi, mlxup is not a standalone tool. It requires MLNX-OFED ESXi driver and MST driver to be installed and loaded in the machine.  
  **WA:** Install and load MLNX_OFED ESXi driver (part of the ESXi 5.5 and newer Inbox driver), and MST driver, which can be found at www.mellanox.com.  
  **Key Words:** mst driver, ESXi, VMware |
| -             | **Description:** Running mlxup in parallel with MFT tools causes read/write corruptions and yields unexpected behavior.  
  **WA:** Do not run mlxup in parallel with other MFT tools.  
  **Key Words:** MFT, parallel |
## 4 Bug Fixes History

**Table 5 - Bug Fixes History**

<table>
<thead>
<tr>
<th>Internal Ref.</th>
<th>Issue</th>
</tr>
</thead>
<tbody>
<tr>
<td>681475</td>
<td><strong>Description</strong>: Running mlxup query on ConnectX-4 devices will show both Base MAC and Base GUID, even if the two ports are configured to be ETH only, or IB only. &lt;br&gt;<strong>Key Words</strong>: GUID, MAC, query &lt;br&gt;Discovered in Release: 4.1.0 &lt;br&gt;Fixed in Release: 4.4.0</td>
</tr>
<tr>
<td>631415</td>
<td><strong>Description</strong>: Downloading the latest mlxup binaries by using the flags --download &lt;dir&gt; and --download All is not supported. &lt;br&gt;<strong>Key Words</strong>: Online &lt;br&gt;Discovered in Release: 4.0.0 &lt;br&gt;Fixed in Release: 4.1.0</td>
</tr>
<tr>
<td></td>
<td><strong>Description</strong>: OpenSSL library has been upgraded to v1.0.2b in FreeBSD 11 r290500 while mlxup is compiled with an older version, therefore mlxup 4.1.0 will not work with FreeBSD 11 r290500 and above. &lt;br&gt;<strong>Key Words</strong>: FreeBSD, OpenSSL &lt;br&gt;Discovered in Release: 4.0.0 &lt;br&gt;Fixed in Release: 4.1.0</td>
</tr>
</tbody>
</table>
## 5 Change Log History

### Table 6 - Change Log History

<table>
<thead>
<tr>
<th>Feature/Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rev. 4.12.0</strong></td>
<td><strong>Firmware</strong> Updated firmware version for ConnectX®-3/ConnectX®-3 Pro/ConnectX®-3 Pro/ConnectX®-4, ConnectX®-4 Lx, ConnectX®-5 and BlueField. See Section 1.2, on page 7</td>
</tr>
<tr>
<td><strong>Rev. 4.11.0</strong></td>
<td><strong>Operating Systems</strong> Updated Operating Systems list. See Section 1.1, on page 6</td>
</tr>
<tr>
<td><strong>Rev. 4.10.0</strong></td>
<td><strong>Operating Systems</strong> Updated Operating Systems list. See Section 1.1, on page 6</td>
</tr>
<tr>
<td><strong>Rev. 4.9.0</strong></td>
<td><strong>Operating Systems</strong> Updated Operating Systems list. See Section 1.1, on page 6</td>
</tr>
<tr>
<td><strong>Rev. 4.8.0</strong></td>
<td><strong>Operating Systems</strong> Updated Operating Systems list. See Section 1.1, on page 6</td>
</tr>
<tr>
<td><strong>Rev. 4.7.0</strong></td>
<td><strong>Firmware</strong> Updated firmware version for ConnectX®-3/ConnectX®-3 Pro/ConnectX®-4, ConnectX®-4 Lx.</td>
</tr>
<tr>
<td><strong>Rev. 4.6.0</strong></td>
<td><strong>Operating System</strong> Aligned supported OSs with MFT supported OSs.</td>
</tr>
<tr>
<td><strong>Rev. 4.5.0</strong></td>
<td><strong>Operating System</strong> Aligned supported OSs with MFT supported OSs.</td>
</tr>
<tr>
<td><strong>Rev. 4.4.0</strong></td>
<td><strong>Operating System</strong> Aligned supported OSs with MFT supported OSs.</td>
</tr>
<tr>
<td><strong>Rev. 4.3.0</strong></td>
<td><strong>Operating System</strong> Added support for VMware ESXi.</td>
</tr>
<tr>
<td>Feature/Category</td>
<td>Description</td>
</tr>
<tr>
<td>------------------</td>
<td>-------------</td>
</tr>
<tr>
<td><strong>Firmware</strong></td>
<td>Updated FW version for all cards.</td>
</tr>
<tr>
<td><strong>Rev. 4.1.0</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Firmware</strong></td>
<td>Added support for ConnectX®-4, ConnectX®-4 Lx and Connect-IB™ firmware.</td>
</tr>
<tr>
<td></td>
<td>Updated firmware version for ConnectX®-3 and ConnectX®-3 Pro.</td>
</tr>
</tbody>
</table>