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1 Introduction

These are the release notes for the BridgeX® gateway firmware, fw-BridgeX Rev 8.3.3160. This firmware supports the following protocols:

- Ethernet over InfiniBand (EoIB)
- Fibre Channel over Ethernet (FCoE)
- Fibre Channel over InfiniBand (FCoIB)
- Ethernet to Ethernet (PHyX®)

**Note:** After burning the new firmware, reboot your system to activate the new firmware. Failing to do so will result in an error when running the RUN_FW command.

2 Firmware fw-BridgeX Compatibility

Firmware fw-BridgeX Rev 8.3.3160 is compatible with:

- BridgeX Programmer’s Reference Manual (PRM), Rev 0.90 or later
- Mellanox BridgeX Management (BXM) software version 1.3.6-0
3 Changes and New Features

3.1 BridgeX Firmware v8.3.3160

BridgeX firmware v8.3.3160 does not contain any new changes/features.

3.2 BridgeX Firmware v8.3.3000

- Added VL separation support
- Added PhyX® command interface
- Added ARP proxy lookup mode
- Added anti-spoofing support for multicast Packets
- Added RSS configuration
- Made Ethernet link change events configurable
- Added Ethernet link change events support in managed PhyX® mode
- Added link policy reflection in PhyX® mode
- Added module rate select configuration in Fibre Channel port (access by i2c or GPIO).
- Added external port module state change
- Added port drop counters
- Added counters per priority port
- Added support to XFI detection in the parallel detect.
- Added reset counters policy
- Added MTU configuration
- The chips are now presented as 2 port IB with a single node_guid
## 4 Bug Fixes

*Table 1 - Bug Fixes*

<table>
<thead>
<tr>
<th>Index</th>
<th>Issue</th>
<th>Description</th>
<th>Found in FW Version</th>
<th>Fixed in FW Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Cable plugging issue</td>
<td>Possible link failure upon cable plugging.</td>
<td>8.3.0000</td>
<td>8.3.3160</td>
</tr>
<tr>
<td>2.</td>
<td>Device link up issues</td>
<td>The device might link up in SDR vs. DDR capable devices.</td>
<td>8.3.0000</td>
<td>8.3.3160</td>
</tr>
<tr>
<td>3.</td>
<td>SGMII link issues</td>
<td>Upon protocol change the SGMII link might fail.</td>
<td>8.3.0000</td>
<td>8.3.3160</td>
</tr>
</tbody>
</table>
5 Known Issues

The following table describes known issues and possible workarounds.

<table>
<thead>
<tr>
<th>Index</th>
<th>Description</th>
<th>Possible Workaround</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Fibre Channel link resets in apha state.</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Dcbx is not supported in this version.</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>The firmware does not indicate the actual capability of the Fibre Channel module speed.</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>The FCoE protocol indicator LEDs of external ports is not flouncing.</td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Mapping of sl2vl can be performed only when the IB logical link is down.</td>
<td></td>
</tr>
</tbody>
</table>