Application Note

Disabling the FCoE Function on HPE FlexFabric Adapters from QLogic

**Products Affected**

<table>
<thead>
<tr>
<th>HPE® Model</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPE FlexFabric® 10Gb 2-port 533FLR-T</td>
<td>700759-B21</td>
</tr>
<tr>
<td>HPE FlexFabric 10Gb 2-port 534FLR-SFP+</td>
<td>700751-B21</td>
</tr>
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<td>HPE FlexFabric 10Gb 2-port 534FLB</td>
<td>700741-B21</td>
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<td>HPE FlexFabric 10Gb 2-port 534M</td>
<td>700748-B21</td>
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<td>HPE FlexFabric 10Gb 4-port 536FLR-T</td>
<td>764302-B21</td>
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<td>HPE FlexFabric 10Gb 2-port 536FLB</td>
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<td>HPE FlexFabric 20Gb 2-port 630FLB</td>
<td>700065-B21</td>
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<tr>
<td>HPE FlexFabric 20Gb 2-port 630M</td>
<td>700076-B21</td>
</tr>
<tr>
<td>HPE StoreFabric® CN1100R</td>
<td>QW990A</td>
</tr>
<tr>
<td>HPE StoreFabric CN1100R-T</td>
<td>N3U52A</td>
</tr>
<tr>
<td>HPE Synergy 2820C</td>
<td>794538-B21</td>
</tr>
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</table>
| HPE Synergy 3820C                              | 777430-B21    

**Introduction**

This application note describes a condition in VMware® vSphere®/ESXi environments where it is necessary to turn off or disable the Fibre Channel over Ethernet (FCoE) function on the adapters listed in the *Products Affected* table.

**Issue: vmkernel Logs Filled with FCoE Data**

In VMware environments, when the HPE FlexFabric/StoreFabric adapter operates as NIC only, the FCoE discovery function of the Converged Network Adapter fills vmkernel logs, which overwrites the log data for other issues being investigated.

To resolve this issue, the FCoE function must be disabled on the adapter when operating as NIC-only in VMware environments.
3 – Workaround: Disabling the FCoE Storage Function on HPE 53x/63x and CN1100 Series Adapters

At the time of publication, there are three ways to disable the storage (FCoE) function on the HPE FlexFabric 53x/63x and CN1100 Series adapters. Follow the instructions for the method that best suits your system configuration.

Section 3.1, Disabling FCoE in VMware
Section 3.2, Removing the FCoE Driver
Section 3.3, Disabling the libfcoe Driver in VMware

3.1 Disabling FCoE in VMware

NOTE
The following instructions disable all FCoE connectivity to the VMware host.

To disable FCoE in VMware:
1. Reboot the server and launch the System Configuration menu.
2. In the System Configuration menu:
   a. Select the adapter.
   b. Ensure that the Boot to FCoE Target feature is set to Disabled.
3. Issue the `esxcli fcoe nic disable` command to turn off the FCoE function. Instructions for using this command are located on the following VMware websites:
   - vSphere 5
   - vSphere 6

3.2 Removing the FCoE Driver

Remove the FCoE driver by issuing the following command in VMware:

```
esxcfg-module -d bnx2fc
```

3.3 Disabling the `libfcoe` Driver in VMware

**NOTE**

The following instructions disable all FCoE connectivity to the VMware host.

Turn off the `libfcoe` driver by issuing the following command:

```
# esxcfg-module -d fcoe
```

In addition, stop `libfcoe` from loading by issuing the following command:

```
#esxcfg-module -d libfcoe_92
```
Future Workaround: Storage Personality Override

There will be a software update for all HPE FlexFabric 53x/63x and CN1100R Series adapters that will coincide with the release of HPE ProLiant® Gen10 servers. This update will add a system configuration item called “Storage Personality Override.” Enabling this configuration option will disable the storage personality and eliminate the potential issue.