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For more information on hardware and software features, commands, and capabilities, refer to the Dell Networking website at [www.force10networks.com](http://www.force10networks.com).
How To Use This Document

This document contains information on open and resolved caveats and operational information specific to the Networking OS (FTOS™) software on the MXL 10/40GbE Switch IO module.

Caveats are unexpected or incorrect behavior, and are listed in order of Problem Report (PR) number within the appropriate sections.

Note: Customers can subscribe to caveat update reports or use the BugTrack search tool to read current information about open and closed software caveats. To subscribe or use BugTrack, visit iSupport at: https://www.force10networks.com/CSPortal20/BugTrack/SearchIssues.aspx.

All Release Notes are available on the Software Center tab of iSupport. The link to the relevant Release Notes for each software version is next to the link for that version:


Prerequisites

- The Dell Chassis Management Controller (CMC) version 4.11 or later is required in a Dell PowerEdge M1000e Enclosure to use an MXL 10/40GbE Switch IO module running FTOS version 8.3.16.3 or later.


Supported Hardware

<table>
<thead>
<tr>
<th>Hardware</th>
</tr>
</thead>
<tbody>
<tr>
<td>MXL 10/40GbE Switch IO Module: base module</td>
</tr>
<tr>
<td>4-Port 10-Gigabit Ethernet SFP+ module</td>
</tr>
<tr>
<td>2-Port 40-Gigabit Ethernet QSFP+ module</td>
</tr>
<tr>
<td>4-Port 10GBASE-T module</td>
</tr>
</tbody>
</table>

Changes to FTOS Version 8.3.16.4

FTOS version 8.3.16.4 supports the following:

- Support for MSTP instance IDs 0 to 4094, with a maximum of 64 total instances.
- Support for 1 GbE copper with 10G SFP+ module
- Support for 16 LAG members, in certain scenarios. Contact your Dell Networking representative for specific scenario explanations.

For complete information on the supported software features, including their configuration, usage, and restrictions, refer to the **MXL 10/40GbE Switch IO Module Configuration Guide** and **MXL 10/40GbE Switch IO Module Command Reference Guide**.

## Restrictions

- An MXL 10/40GbE Switch supports only one 4-Port 10GBASE-T Module at a time.
- An MXL 10/40GbE Switch does not support the Brocade BR1741M-k Converged Network Adapter (CNA).
- If an Intel X520 CNA adapter is used as an FCoE initiator, follow these steps to establish FCoE sessions to send and receive traffic on an MXL 10/40GbE Switch:

<table>
<thead>
<tr>
<th>Step</th>
<th>Task</th>
<th>Command</th>
<th>Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>On each server-facing port, enter the following commands in interface configuration mode.</td>
<td><strong>The dcbx version cee</strong> command configures a port to use the CDD (Intel 1.01) version of DCBX. Configure server-facing ports with the <strong>shutdown</strong> and <strong>no shutdown</strong> commands as needed. For example:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>FTOS# interface tenGigabitEthernet 0/1</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>FTOS(conf-if-te-0/1)# portmode hybrid</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>FTOS(conf-if-te-0/1)# switchport</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>FTOS(conf-if-te-0/1)# protocol lldp</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>FTOS(conf-if-te-0/1)# dcbx port-role auto-downstream</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>FTOS(conf-if-te-0/1)# dcbx version cee</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>FTOS(conf-if-te-0/1)# exit</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>FTOS(conf-if-te-0/1)# spanning-tree pvst edge-port</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>FTOS(conf-if-te-0/1)# no shutdown</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>FTOS(conf-if-te-0/1)# exit</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>FTOS#</strong></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Display information on FIP-snooped sessions and check the entries in ENode Interface fields to see if you have established the FCoE session on each server-facing port.</td>
<td><strong>show fip-snooping sessions</strong></td>
<td>EXEC Privilege</td>
</tr>
</tbody>
</table>

- If the MXL switch is in boot-line interface (BLI) mode:
  - You cannot switch to the CMC console and manage the switch using CMC.
  - You cannot disconnect and reconnect to CMC from the CMC console.
  Connect to the CMC console after you exit the BLI interface or after the BLI phase of the bootup finishes.
- After you upgrade the CPLD version on an MXL switch using the BLI, the new CPLD version is not displayed in **show revision** output if you power cycle the switch using the **power-cycle stack-unit** command. Instead, power cycle the MXL switch using the CMC interface.
- The MXL switch crashes and reboots when an FRU read operation fails.
Upgrading the FTOS Image on the MXL 10/40GbE Switch

The MXL 10/40GbE Switch is pre-loaded with default FTOS software. Each MXL 10/40GbE Switch IO module must be upgraded individually to a new FTOS release.

Follow these steps to upgrade your MXL 10/40GbE Switch IO module.

Note: If you are using Bare Metal Provisioning, refer to the Bare Metal Provisioning chapter in the MXL 10/40GbE Switch IO Module FTOS Configuration Guide.

<table>
<thead>
<tr>
<th>Step</th>
<th>Task</th>
<th>Command</th>
<th>Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dell Networking recommends that you back up your startup configuration and any important files or directories to an external media prior to upgrading the system.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Upgrade the FTOS version, as shown below.</td>
<td>upgrade system {flash:</td>
<td>ftp:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>FTOS# upgrade system ftp: A:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Address or name of remote host [ ]: 10.10.10.15</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Source file name [ ]: $w/Releases/E8.3.16/E8.3.16.4/FTOS-XL-8.3.16.4.bin</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>User name to login remote host: ftp</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Password to login remote host:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Erasing IOM Primary Image, please wait</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>!........................................................................................................................ ... bytes successfully copied</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>System image upgrade completed successfully.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>FTOS#</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>For stacked units, propagate the upgrade to other units.</td>
<td>upgrade system stack-unit {all</td>
<td>0 - 5}</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>FTOS# upgrade system stack-unit all A:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>!........................................................................................................................</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>FTOS#</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Write the running configuration to the memory, and create the startup-config file.</td>
<td>write mem</td>
<td>EXEC Privilege</td>
</tr>
<tr>
<td></td>
<td>If this command is not entered, configuration settings will be lost when the system is reloaded.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Upon a successful completion of the copy process, reload the unit.</td>
<td>reload</td>
<td>EXEC Privilege</td>
</tr>
<tr>
<td></td>
<td>FTOS# reload</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Proceed with reload [confirm yes/no]: yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>.00:09:11: %STKUNIT0-M:C %CMGR-5-RELOAD: User request to reload the chassis</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Upgrading the MXL 10/40GbE Switch Boot Code

The MXL 10/40GbE Switch IO Module with FTOS Version 8.3.16.4 requires boot-flash version 4.0.1.1 and boot-selector version 4.0.0.1.

Note: Unless otherwise stated in the release notes or directed by Dell Networking, boot code should not be downgraded.

For details about using the Network Boot facility, see the “Recovering from a Failed Start” section of the Management chapter in the Dell Force10 Configuration Guide for the MXL 10/40GbE Switch IO Module.

Note: FTOS upgrades performed with Bare Metal Provisioning (formerly called Jumpstart) do not include upgrading the boot code.

<table>
<thead>
<tr>
<th>Step</th>
<th>Task</th>
<th>Command</th>
<th>Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Upgrade the switch to the latest FTOS release.</td>
<td>upgrade system</td>
<td>EXEC Privilege</td>
</tr>
</tbody>
</table>

See Upgrading the FTOS Image on the MXL 10/40GbE Switch.
## Release Notes for the MXL 10/40GbE Switch IO Module, FTOS Version 8.3.16.4 March 2013

<table>
<thead>
<tr>
<th>Step</th>
<th>Task</th>
<th>Command</th>
<th>Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Upgrade the boot-flash and/or boot-selector image.</td>
<td><strong>upgrade boot</strong> {all</td>
<td>bootflash-image</td>
</tr>
<tr>
<td></td>
<td>You can either enter the full url path for the location of the source file or press Enter to launch a prompt sequence.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

FTOS# upgrade boot bootflash-image stack-unit 0 booted A:

Current BootFlash information in the system:

```
+-------------------------------+-----------------+----------------+-----+
<table>
<thead>
<tr>
<th>Card</th>
<th>BootFlash</th>
<th>Current Version</th>
<th>New Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit0</td>
<td>Boot Flash A</td>
<td>4.0.0.0</td>
<td>4.0.0.1</td>
</tr>
</tbody>
</table>
```

* Warning - Upgrading boot flash is inherently risky and should only be attempted when necessary. A failure at this upgrade may cause a board RMA. Proceed with caution !

Proceed upgrade Boot Flash image for stack-unit 0 [yes/no]: yes

Erasing IOM Primary Bootflash Image, please wait .!..!..!..!..!..!..!..!..!..!..!..!..!

Bootsflash image upgrade for stack-unit 0 completed successfully.

FTOS#upgrade boot bootselector-image stack-unit 0 booted

Current BootSelector information in the system:

```
+-------------------------------+-----------------+----------------+-----+
<table>
<thead>
<tr>
<th>Card</th>
<th>BootFlash</th>
<th>Current Version</th>
<th>New Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit0</td>
<td>Boot Flash A</td>
<td>4.0.1.0</td>
<td>4.0.1.1</td>
</tr>
</tbody>
</table>
```

* Warning - Upgrading boot selectors is inherently risky and should only be attempted when necessary. A failure at this upgrade may cause a board RMA. Proceed with caution !

Proceed upgrade Boot Selector image for stack-unit 0 [yes/no]: yes

Erasing IOM Boot Selector Image, please wait .!..!..!..!..!..!..!..!..!..!..!..!..!

Bootselector image upgrade for stack-unit 0 completed successfully.

FTOS# reload

3 Reboot the system so that it boots up using the new FTOS image. EXEC Privilege
Upgrading the CPLD

An MXL 10/40GbE Switch IO module with FTOS version 8.3.16.4 requires CPLD image 6.

Verify that a CPLD Upgrade is Required

Figure 1-1. Verifying the CPLD version

<table>
<thead>
<tr>
<th>Step</th>
<th>Task</th>
<th>Command</th>
<th>Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>After the switch reloads, verify the boot-flash and boot-selector versions.</td>
<td>show system stack-unit 0</td>
<td>EXEC Privilege</td>
</tr>
</tbody>
</table>

FTOS# show system stack-unit 0

-- Unit 0 --
Unit Type : Management Unit
Status : online
Next Boot : online
Required Type : MXL-10/40GbE - 34-port GE/TE/FG (XL)
Current Type : MXL-10/40GbE - 34-port GE/TE/FG (XL)
Master priority : 0
Hardware Rev : 
Num Ports : 56
Up Time : 3 day, 16 hr, 30 min
FTOS Version : 8.3.16.4
Jumbo Capable : yes
POE Capable : no
Boot Flash : A: 4.0.1.1 [booted]   B: 4.0.1.1
Boot Selector : 4.0.0.1

IOM SYSTEM CPLD : 6

IOM SYSTEM CPLD : 6

IOM SYSTEM CPLD : 6
Figure 1-2. Display the CPLD Version Included with the FTOS Image

FTOS# show os-version

RELEASE IMAGE INFORMATION :

<table>
<thead>
<tr>
<th>Platform</th>
<th>Version</th>
<th>Size</th>
<th>ReleaseTime</th>
</tr>
</thead>
<tbody>
<tr>
<td>IOM-Series: XL</td>
<td>8.3.16.4</td>
<td>3196831</td>
<td>Dec 8 2012 23:28:46</td>
</tr>
</tbody>
</table>

TARGET IMAGE INFORMATION :

<table>
<thead>
<tr>
<th>Type</th>
<th>Version</th>
<th>Target</th>
<th>checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>runtime</td>
<td>8.3.16.4</td>
<td>Control Processor</td>
<td>passed</td>
</tr>
</tbody>
</table>

BOOT IMAGE INFORMATION :

<table>
<thead>
<tr>
<th>Type</th>
<th>Version</th>
<th>Target</th>
<th>checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>boot flash</td>
<td>4.0.1.1</td>
<td>Control Processor</td>
<td>passed</td>
</tr>
</tbody>
</table>

BOOTSEL IMAGE INFORMATION :

<table>
<thead>
<tr>
<th>Type</th>
<th>Version</th>
<th>Target</th>
<th>checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>boot selector</td>
<td>4.0.0.1</td>
<td>Control Processor</td>
<td>passed</td>
</tr>
</tbody>
</table>

CPLD IMAGE INFORMATION :

<table>
<thead>
<tr>
<th>Card</th>
<th>CPLD Name</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stack-unit 0</td>
<td>IOM SYSTEM CPLD</td>
<td>6</td>
</tr>
<tr>
<td>Stack-unit 1</td>
<td>IOM SYSTEM CPLD</td>
<td>6</td>
</tr>
<tr>
<td>Stack-unit 2</td>
<td>IOM SYSTEM CPLD</td>
<td>6</td>
</tr>
</tbody>
</table>

Upgrade the CPLD Image

Note: The upgrade fpga-image stack-unit 0 booted command is hidden when using the ? feature in the CLI. However, it is a supported command and will be accepted when entered as documented.

To upgrade the CPLD image on an MXL 10/40GbE Switch IO module:

<table>
<thead>
<tr>
<th>Step</th>
<th>Task</th>
<th>Command</th>
<th>Command Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Shut down all of the interfaces on the system.</td>
<td>shutdown</td>
<td>INTERFACE</td>
</tr>
<tr>
<td></td>
<td>Shutting down the ports ensures that the stack-unit power supplies are not disrupted during the upgrade.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Shutting down the ports prior to upgrading ensures that the line card power is not disrupted while the upgrade is taking place. The ports will come back up following the power cycle.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Upgrade the CPLD image.</td>
<td>upgrade fpga-image</td>
<td>EXEC Privilege</td>
</tr>
<tr>
<td></td>
<td></td>
<td>stack-unit booted</td>
<td></td>
</tr>
<tr>
<td>Step</td>
<td>Task</td>
<td>Command</td>
<td>Command Mode</td>
</tr>
<tr>
<td>------</td>
<td>------</td>
<td>---------</td>
<td>--------------</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FTOS# upgrade fpga-image stack-unit 0 booted</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Current FPGA information in the system:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>==============================================================</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>FPGA Name</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>==============================================================</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Unit0</td>
<td>IOM SYSTEM CPLD</td>
</tr>
<tr>
<td></td>
<td></td>
<td>==============================================================</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Warning - Upgrading FPGA is inherently risky and should only be attempted when necessary. A failure at this upgrade may cause a board RMA. Proceed with caution!</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>==============================================================</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Power cycle stack-unit 0 to activate the latest Upgraded FPGA version!!!</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Upgrade fpga image for stack-unit 0 [yes/no]: yes</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>FPGA upgrade in progress!!!</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>!!!!!!!!!!!!!</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Upgrade result:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>==================</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Unit 0 FPGA upgrade successful.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>FTOS#</td>
<td></td>
</tr>
</tbody>
</table>

3. Power cycle the switch (IO module) using the CMC interface or remove and re-insert the switch (OIR) from the chassis so that the CPLD upgrade takes effect.  
   **Note:** The **powercycle stack-unit 0** command does not load the latest CPLD version.

---

**Documentation Errata**

- In the *Dell Force10 MXL 10/40GbE Switch IO Module Getting Started Guide*, Figure 1-8 shows a PowerEdge M1000e chassis with six MXL Switch blades installed. Two of the MXL Switches in the illustration have two 4-Port 10GBASE-T Modules installed, which is incorrect because only one 4-Port 10GBASE-T Module is supported on an MXL Switch.
Caveats

The following sections describe problem report (PR) types, and list open, closed, and rejected PRs:

- Caveat Definitions
- Resolved Hardware Caveats for the MXL 10/40GbE Switch
- Resolved Software Caveats for the MXL 10/40GbE Switch in FTOS Version 8.3.16.4
- Open Software Caveats for the MXL 10/40GbE Switch in FTOS Version 8.3.16.4

Note: Customers can subscribe to caveat update reports or use the BugTrack search tool to read current information about open and closed software caveats. Visit iSupport at: https://www.force10networks.com/CSPortal20/BugTrack/SearchIssues.aspx. BugTrack currently tracks software caveats opened in FTOS version 6.2.1.1 and later.

All Release Notes are available on the Software Center tab of iSupport. The link to the relevant Release Notes for each software version is next to the link for that version:


Caveat Definitions

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR#</td>
<td>Problem Report number that identifies the caveat.</td>
</tr>
<tr>
<td>Synopsis</td>
<td>Synopsis is the title or short description of the caveat.</td>
</tr>
<tr>
<td>Release Notes</td>
<td>Release Notes description contains more detailed information about the caveat.</td>
</tr>
<tr>
<td>Work Around</td>
<td>Work Around describes a mechanism for circumventing, avoiding, or recovering from the caveat. It might not be a permanent solution. Caveats listed in the “Closed Caveats” section should not be present, and the workaround is unnecessary, as the version of code for which this release note is documented has resolved the caveat.</td>
</tr>
</tbody>
</table>

Resolved Hardware Caveats for the MXL 10/40GbE Switch

None

Resolved Software Caveats for the MXL 10/40GbE Switch in FTOS Version 8.3.16.4

The following caveats were resolved in FTOS version 8.3.16.4.

None
Open Software Caveats for the MXL 10/40GbE Switch in FTOS Version 8.3.16.4

The caveats described below are unresolved in FTOS version 8.3.16.4. To view updated information about open caveats, use the Bug Track search tool on the iSupport web page. You must have a user account (see Accessing iSupport Services) to access the Bug Track tool.

To use the Bug Track search tool:

2. Log in.
3. Click the BugTrack link, located in the Quick Links menu directly below the login bar.
   This takes you to the BugTrack search page: https://www.force10networks.com/csportal20/BugTrack/SearchIssues.aspx.
4. Enter for a specific PR or select an FTOS version, platform, severity, or category to get a list of PRs.
5. Click the Search button.
   The PR (or PRs) appears on the page below the tool.

The following caveats are open in FTOS version 8.3.16.4.

**CLI (Open)**

**PR# 78254**
Severity: S3  
Synopsis: Under the interface range mode, certain commands will not be auto/tab completed

Release Notes: Under the interface range mode, some commands will not auto-complete using the tab key. For example, in "interface range vlan" mode, typing "unt" will not auto-complete to "untagged".

Workaround: Manually type the complete command, using the "?" functionality to determine its syntax.

**PR# 108908**
Severity: S4  
Synopsis: show fiber-ports optical transceiver shows input/output power to be off 1 decimal point.

Release Notes: build 789 has input/output power off by 1 decimal point .658 should be 6.58 As well upper and lower alarms levels off as well.

Workaround: show interface tengig 0/52 transceiver is cli command run to get output.
**DCB (Open)**

**PR# 107320**  
Severity: S3  
Synopsis: ETS on PFC enabled PGID's may not confirm to the configuration, when port-mirroring is enabled and corresponding packets are mirrored.

Release Notes: ETS on PFC enabled PGID's may not confirm to the configuration, when port-mirroring is enabled and corresponding packets are mirrored.

Workaround: No workaround.

**PR# 108226**  
Severity: S3  
Synopsis: In DCBx-CIN version, priorities belonging to 'Strict priority priority-group' are incorrectly listed as ETS type in the 'show ets detail' output  
Release Notes: Though priorities are associated to a 'Strict priority priority-group' in a dcbs-output profile that is applied to an interface, they are incorrectly listed as ETS type in the priority-level bandwidth splitup that is displayed in the 'show ets detail' output when the interface has dcbx version to be CIN

Workaround: This is just a display issue and doesn't affect the functionality in any way

**PR# 110030**  
Severity: S2  
Synopsis: LACP may flap when DCB is reset(disabling and enabling) on IOM stacking

Release Notes: LACP flaps when DCB is reset(disabling and enabling) for couple of times on IOM stacking

Workaround: none

**DHCP (Open)**

**PR# 111593**  
Severity: S2  
Synopsis: When Static IP is added after removing dhcp address, existing default route in running config may not get added

Release Notes: When Static IP is added after removing dhcp address, existing default route in running config may not get added

Workaround: Workaround is to explicitly add the default route corresponding to the new static IP.
FIB (Open)

PR# 109315
Severity: S2
Synopsis: Fib6_proc_SNMP log messages may be seen on console with 16k routes.

Release Notes:Fib6_proc_SNMP log messages may be seen on console with 16k routes.

Workaround: none

Fipsnooping (Open)

PR# 106747
Severity: S2
Synopsis: Frames may be allowed to pass through even when S_ID and FC_ID doesn't match

Release Notes:Frames may be allowed to pass through even when S_ID and FC_ID doesn't match

Workaround: None

PR# 112958
Severity: S3
Synopsis: Initial FCoE frames may get dropped while establishing FCoE session

Release Notes:Initial FCoE frames may get dropped while establishing FCoE session as the ACLs are not installed

Workaround: Subsequent frames will go through and FCoE session will established.

IPv4 (Open)

PR# 86587
Severity: S3
Synopsis: Extended Ping validate reply data functionality is not supported in this release.

Release Notes:Extended ping with "validate reply data" set to Y incorrectly succeeds when a different data pattern is used.

Workaround: None.

PR# 87990
Severity: S2
Synopsis: Broadcasts to a Layer 3 VLAN with UDP destination port 0 is being forwarded in other Layer 3 VLANs.

Release Notes: Broadcasts to a Layer 3 VLAN with UDP destination port 0 is being forwarded to other VLANs in the chassis.

Workaround: Configure user defined ACL to deny port 0 traffic.

PR# 91242
Severity: S2
Synopsis: Switch loses management connection when a default route is added to it through a front end port which is on a different subnet.

Release Notes: When we configure a default route on the switch through one of the front end ports which is on a different subnet, the switch loses management connectivity.

Workaround: Remove the default route configuration.

PR# 92661
Severity: S4
Synopsis: Management interface status indicates "Connected" when the interface is shut and ip address is changed.

Release Notes: "Show ip Management route" may show the network of IP assigned on the management interface as "Connected" even when the corresponding management route is shut.

Workaround: No workaround found as it is a Show command Bug.

ISCSI (Open)

PR# 110137
Severity: S3
Synopsis: Changes in aging timer for iscsi sessions will be applied only to new sessions.

Release Notes: Changes in aging timer for iscsi sessions will be applied only to new sessions. Older sessions will continue to use the older aging timer value.

Workaround: None.

Layer 2 ACL (Open)

PR# 56866
Severity: S1
Synopsis: A MAC ACL cannot be deleted per VLAN if it was applied for multiple VLANs on an interface.

Release Notes: A MAC ACL cannot be deleted per VLAN if it was applied for multiple VLANs on an interface.
Workaround: Remove ACLs, and then reapply for VLAN(s) still needing ACL. Example: interface GigabitEthernet0/0 no ip address switchport mac access-group test1 in Vlan 1-3 ! FTOS (conf-if-gi-0/0)#no mac access-group test1 in FTOS (conf-if-gi-0/0)#mac access-group test1 in Vlan 1-2

Layer 3 ACL (Open)

PR# 88088
Severity: S3
Synopsis: Null interface does not respond with ICMP Host unreachable (Type-3) message when "ip unreachables" is configured
Release Notes: Null interface does not respond with ICMP Host unreachable (Type-3) message when "ip unreachables" is configured
Workaround: None.

LLDP (Open)

PR# 106776
Severity: S3
Synopsis: LLDP packets may be generated on port channels initially after bootup, even if the lldp protocol is disabled.
Release Notes: Few LLDP packets may be sent out of port channel interfaces, at the time of Boot up, when when LDDP is disabled globally.
Workaround: None.

NTP (Open)

PR# 89014
Severity: S2
Synopsis: When learned via NTP, the "show clock" output might have small deviation from the actual time in the NTP server
Release Notes: When learned via NTP, the "show clock" output might gradually deviate away from the actual time in the NTP server
Workaround: Use the CLI "clock set" to adjust the current time to the actual time.

PR# 108305
Severity: S3
Synopsis: NTP server configured with hostname is not updating the IP change for server
Release Notes: NTP server configured with hostname is not updating the IP change for server
Workaround: unconfigure and reconfigure the NTP server and it would resolve to the new IP.

**OS / OS Infrastructure (Open)**

**PR# 88868**  
Severity: S1  
Synopsis: CP may experience software exception when IPM task runs at high CPU resulting in loss of heartbeat between the CPUs.  
Release Notes: CP may experience software exception when IPM task runs at high CPU resulting in loss of heartbeat between the CPUs.  
Workaround: None

**PR# 111236**  
Severity: S2  
Synopsis: Configuring speed 1000 on a 1G optics and doing OIR of the SFP+ module may not bring up the link  
Release Notes: Configuring speed 1000 on a 1G optics and doing OIR of the SFP+ module may not bring up the link  
Workaround: Workaround is to shut/no shut the corresponding interface.

**PR# 112610**  
Severity: S3  
Synopsis: Rarely, 40G link may not come up during OIR when swapping 40G 5M DAC cable and SR4 Optic between Ports  
Release Notes: Rarely, 40G link may not come up during OIR when swapping 40G 5M DAC cable and SR4 Optic between Ports  
Workaround: Another OIR of the optics/DAC may bring up the port.

**OSPF (Open)**

**PR# 81030**  
Severity: S2  
Synopsis: On reception of same external route from multiple ASBR peers, ECMP routes pointing to all advertising ASBRs may not be installed in RTM of receiver.
Release Notes: On reception of same external route from multiple ASBR peers, ECMP routes pointing to all the advertising ASBRs may not be installed in routing table of the receiver. This issue can manifest in a triangle setup, as illustrated below.

```
R1 \ R2 \ R3
```

R1 ip route 10.10.10.32 192.168.1.1 router ospf 1 redistribute static net 192.168.1.0/24 area 0
R2 ip route 10.10.10.32 192.168.100.100 router ospf 1 redistribute static net 192.168.100.0/24 area 0
R3 will have only one route to 10.10.10.32 even though the LSA from both peers is present in the external database.

Workaround: Do not publish the next-hop network of the redistributed routes in OSPF. For example, using the above example, 192.168.1.0/24 & 192.168.100.0/24 are not published in the respective routers, while R3 will have all the routes in the routing table.

**PR# 82085**
Severity: S3
Synopsis: SPF runs continuously on an empty area without any OSPF interfaces.

Release Notes: SPF runs continuously on an empty area without any OSPF interfaces.

Workaround: None.

**PR# 86459**
Severity: S4
Synopsis: In Multi-OSPF process scenario, "show ip ospf interface" shows the process ID as "-1".

Release Notes: In Multi-OSPF process scenario. executing the "show ip ospf interface" command displays the process ID as "-1" and "show ip ospf database" displays router-id as 255.255.255.255.

Workaround: None.

**PR# 87594**
Severity: S1
Synopsis: Configuring an OSPF area ID in dotted notation may lead to a sustained high CPU condition for OSPF upon an RPM failover.

Release Notes: Configuring an OSPF area ID in dotted notation may lead to a sustained high CPU condition for OSPF upon an RPM failover.

Workaround: Change the area ID to a whole number, such as 100, or upgrade to FTOS Release 8.2.1.2f, which includes a fix for this issue. Contact the Force10 Networks technical assistance center for 8.2.1.2f.

**PR# 88186**
Severity: S2
Synopsis: Routes of the secondary IP address will not be advertised if the respective network statement is removed and then added back.
Release Notes: Routes of the secondary IP address will not be advertised if its network statement is removed and then added back.

Workaround: None.

PR# 88233
Severity: S2
Synopsis: A LSA advertised by a neighbor should not be purged if the link ID is equal to one of the router's own interface that is shutdown.

Release Notes: When a router receives a LSA with link ID equal to one of its own interfaces but with a different advertising router ID it will purge this LSA if either the network statement is present in the OSPF config or if the same IP address is configured one of the links even though the link has been shut down.

Workaround: Remove the network statement from OSPF for the shutdown link or the interface IP on that link.

PR# 93536
Severity: S3
Synopsis: OSPF default-information originate can cause network loop under certain cases.

Release Notes: The default route was learnt via OSPF and it is again redistributed back to OSPF. OSPF Type 5 LSA for the default route when the origin protocol is also OSPF needs to be suppressed.

Workaround: None

Port Monitoring (Open)

PR# 113218
Severity: S3
Synopsis: Port mirroring is not fully working in direction tx with the line rate traffic; it works if the traffic is less than 95% of the line rate.

Release Notes: User may experience loss of traffic when mirroring traffic and mirrored traffic are close to line rate.

Workaround: None. It is recommended to not use line rate traffic with port mirroring.

QoS (Open)

PR# 112196
Severity: S3
Synopsis: Snmp query for Per CoS buffer may not return correct values.

Release Notes: Snmp query for Per CoS buffer may not return correct values.

Workaround: No workaround.
RTM (Open)

PR# 97425
Severity: S1
Synopsis: In rare instances, the RPM module may reboot due to a software exception.

Release Notes: In rare instances, a software exception may be encountered in the RTM module which causes the RPM to reboot.

Workaround: None

sFlow (Open)

PR# 88867
Severity: S2
Synopsis: An internal, inter-process queue timeout may occur between the sFlow line card and RPM software tasks.

Release Notes: An internal, inter-process queue timeout may occur between the sFlow line card and RPM software tasks.

Workaround: None

SNMP (Open)

PR# 111758
Severity: S3
Synopsis: Trap may not be generated while enabling DCB feature on a stack setup

Release Notes: Trap may not be generated for DCB enable event on a stack setup
Workaround: No workaround.

SSH (Open)

PR# 85177
Severity: S2
Synopsis: Under rare circumstances SSH task may cause the VTY line to get stuck and remain unclearable via CLI.

Release Notes: Under rare circumstances SSH task may cause the VTY line to get stuck and remain unclearable via the "clear line vty" command.

Workaround: None.

PR# 89220
Severity: S1
Synopsis: While initiating SSH to the chassis, RPM fail over is seen when the SSH daemon requests SSH client to change the user authentication password.

Release Notes: While initiating SSH from the chassis, RPM fail over is seen when the SSH daemon requests SSH client to change the user authentication password.

Workaround: None.

PR# 104263  
Severity: S1  
Synopsis: Sysd-SSH process might stuck at high CPU due to software issue in CLI parsing.

Release Notes: Sysd-SSH process might stuck at high CPU due to software issue in CLI parsing.

Workaround: None. Perform RPM-failover or chassis reload.

**System (Open)**

PR# 109649  
Severity: S3  
Synopsis: Line-rate percentage values may be marginally less in stack-port counters, While traffic passes across stack links, with different frame sizes.

Release Notes: Line-rate percentage values may be marginally less in stack-port counters, While traffic passes across stack links, with different frame sizes.

Workaround: None

PR# 110583  
Severity: S3  
Synopsis: Syslog message may not indicate the actual problem, when config file name exceeds max length.

Release Notes: Syslog message may not indicate the actual problem, when config file name exceeds max length.

Workaround: Config file name should be < 255 chars.

PR# 112714  
Severity: S3  
Synopsis: Rarely link may not come up after OIR of F10 Qualified 40G SR4 Optics

Release Notes: Rarely link may not come up after OIR of F10 Qualified 40G SR4 Optics

Workaround: Repeating the OIR may bring up the link again.

PR# 118227
Severity: S1
Synopsis: Rapid and concurrent state transition of telnet/SSH ports could result in reduction of available FDs.
Release Notes: Rapid and concurrent state transition of telnet/SSH ports could result in reduction of available File Descriptors. This could eventually result in FD exhaustion and consequentially a system reset.
Workaround: None.

**Telnet (Open)**

**PR# 58012**
Severity: S4
Synopsis: Telnet session does not accept input if vertical length is 255.
Release Notes: If the vertical length of a telnet session is set to 255, the telnet session will not accept any input, or show any output.
Workaround: Use a different vertical length, such as 254 or 256.

**PR# 72029**
Severity: S3
Synopsis: An error message similar to "%TELNET-3-TCPSOCKETLIMIT: Cannot allocate any more TCP sockets" may be reported in the log.
Release Notes: An error message similar to "%TELNET-3-TCPSOCKETLIMIT: Cannot allocate any more TCP sockets" may be reported in the log.
Workaround: None. Telnet access to the system should continue to function normally.
Technical Support

Contacting Dell

**Note:** If you do not have an active Internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell product catalog.

Dell provides several online and telephone-based support and service options. Availability varies by country and product, and some services may not be available in your area. To contact Dell for sales, technical support, or customer service issues:

2. Select your support category.
3. If you are not a U.S. customer, select your country code at the bottom of the support.dell.com page, or select All to see more choices.
4. Select the appropriate service or support link based on your need.

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1. On the Dell Networking iSupport page, click the **Account Request** link.
2. Fill out the User Account Request form, and click **Send**. You will receive your user identification and password by E-Mail.
3. To access iSupport services, click the **Log in** link, and enter your user identification and password.

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