



BTI7800

Release 4.5

Release Notes

Rev. 01
February 2019

Copyright © 2019 Juniper Networks, Inc. ALL RIGHTS RESERVED.

This product is the property of Juniper Networks, Inc. and its licensors, and is protected by copyright. Any reproduction in whole or in part is strictly prohibited. Juniper, Juniper Networks, BTI, BTI SYSTEMS, packetVX, proNX, and The Network You Need are trademarks or registered trademarks of Juniper Networks, Inc. and/or its subsidiaries in the U.S. and/or other countries.

Juniper Networks assumes no responsibility for any inaccuracies in this document. Juniper Networks reserves the right to change, modify, transfer, or otherwise revise this publication without notice.

Copyright 2003-2016 BTI Systems, Inc. All rights reserved.

Obtaining technical support

Technical product support is available through the Juniper Networks Technical Assistance Center (JTAC). If you are a customer with an active J-Care or Partner Support Service support contract, or are covered under warranty, and need post-sales technical support, you can access our tools and resources online or open a case with JTAC.

You can open a case with JTAC on the Web or by telephone.

- Use the Case Management tool in the CSC at <http://www.juniper.net/cm/>.
- Call 1-888-314-JTAC (1-888-314-5822 toll-free in the USA, Canada, and Mexico).

For international or direct-dial options in countries without toll-free numbers, see <http://www.juniper.net/support/requesting-support.html>.

End User License Agreement

The Juniper Networks product that is the subject of this technical documentation consists of (or is intended for use with) Juniper Networks software. Use of such software is subject to the terms and conditions of the End User License Agreement (EULA) posted at <http://www.juniper.net/cm/>. By downloading, installing or using such software, you agree to the terms and conditions of that EULA.

Document Identification

Juniper Networks BTI7800 Release 4.5 Release Notes Rev. 01

Abstract

This document provides information related to the current release.

Publication History

Revision	Date	Changes
01	February 2019	Baseline

Contents

1. Introduction	1
1.1 Purpose.....	1
1.2 New Features.....	1
1.3 Upgrade Information	1
1.4 Restrictions	1
1.4.1 Filler Module (BT8A78FLR7).....	1
1.4.2 BTI7801 Chassis (BT8A78CH1)	2
1.5 proNX Service Manager	2
2 Resolved Issues	3
3 Known Issues.....	4
4 Known Limitations	6
5 Related Documentation	9

1. Introduction

1.1 Purpose

This document lists the BTI7800 software features, known software issues, and fixed software issues in release 4.5.

1.2 New Features

BTI7800 Series release 4.5 provides support for the following:

- Delta Q factor difference between X and Y polarization states of the received signal:
 - Configurable Delta Q threshold per interface
 - Transmitter Degrade alarm when threshold exceeded
 - New PMs used in Delta Q calculations
 - Supported on the following:
 - OTU4 interfaces on the 100G Coherent CFP
 - OTU4 interfaces on the 100G Coherent MSA XCVR on the UFM4
 - Optical channel interfaces on the 400G Coherent MSA XCVR on the UFM6
- Support for the following additional cross-connects on the UFM3:
 - 10GE to OTU2e (ODU2e)
 - 10GE to OTU4 (ODU2e within an OTU4)
- ConfD version 6.5.2

1.3 Upgrade Information

You can upgrade to Release 4.5 from Releases 1.5.x, 1.6, 1.7, 2.1.x, 4.1, 4.2.x, 4.3, and 4.4.

Contact Juniper Networks Support if you would like to upgrade from a release different from the above.

1.4 Restrictions

1.4.1 Filler Module (BT8A78FLR7)

The BT8A78FLR7 filler module must be used to cover empty slots in a BTI7814 chassis running release 2.1.0 software or higher. See the following TIB for more information: **BTI-TIB002-2016**.

1.4.2 BTI7801 Chassis (BT8A78CH1)

The BTI7801 requires a CMM running software release 2.1.0 or higher and CMM SHMM firmware that is packaged in release 2.1.0 and higher.

If you are installing software on a BTI7801, ensure that the CMM is running SHMM firmware from release 2.1.0 or higher. If the CMM is not running SHMM firmware from release 2.1.0 or higher, you must upgrade the CMM SHMM firmware immediately after commissioning the system with the new software. The SHMM firmware is included in the software package for this release. See the section, *Upgrading the CMM Firmware*, in the *BTI7800 Software Configuration Guide* for information on how to upgrade the CMM SHMM firmware.

1.4.3 40GE Interface Support on the UFM6

In order to support a 40GE interface on the UFM6, the UFM6 requires an updated SERDES configuration. If you are upgrading from a pre-4.4 release to release 4.4 or higher, you will need to update the SERDES configuration before you can configure a 40GE interface.

The SERDES configuration is automatically updated when a UFM6 is powered up in a chassis running release 4.4 software or higher. This includes inserting a UFM6 into a chassis or performing a cold reload of the UFM6.

To update the SERDES configuration by performing a cold reload, issue the **system reload cold ufm** command on the UFM6 after you upgrade the chassis software. This is service affecting.

1.5 proNX Service Manager

BTI7800 Series Release 4.5 is supported by PSM Release 7.8 or higher.

2 Resolved Issues

Issue	Description
46308	A full DRBD partition causes a software upgrade to fail.
46301	After a software upgrade of a dual-CMM chassis, the system might raise an Equipment Missing (eqptMiss) alarm against one of the CMMs.
46296	A SHMM firmware upgrade of a CMM in a dual-CMM chassis fails occasionally.
46255	After a software upgrade, the chassis occasionally loses its time zone setting, which can lead to incorrect PM values being displayed.
46221	When a CMM cannot determine a fan's speed, it repeatedly sets and clears the Equipment Fail (eqptFail) alarm.
46173	When a 10ge interface on a UFM6 is disabled and then subsequently deleted together with its cross-connect, any new interface you create on that same port might not come up properly.
46166	After a warm reload of a UFM4 that is configured with 10ge to odu2 cross-connects, the 10ge interfaces on the client ports might show a local fault condition and the odu2 sub-interfaces might show a Payload Mismatch (pyldMism) alarm.
46123	After a software upgrade of a single-CMM chassis, the CMM occasionally keeps rebooting.
46081	When the active CMM fails and the standby CMM takes over, a warm reload of a UFM sometimes occurs.
46079	In some situations, a UFM does not always recover from an Equipment Management Communications Failure (eqptComm) alarm.
46073	The BTI7800 includes an outdated OpenSSH version that uses DSA instead of RSA.
46058	When you ssh to the static IP address of the backup CMM, the system provides you access to a CLI that displays incorrect information.
46054	A warm or a cold reload of a UFM6 module might take over twenty minutes to complete.
46053	The UFM6 module sometimes does not come back up after a database restore operation.

3 Known Issues

The following are known issues in this release:

Issue	Description
45801 44920	When you repeatedly provision and delete an optical channel on a UFM6 where the other optical channel is unprovisioned, the system might raise an Equipment Fail (eqptFail) alarm for the UFM. This problem does not occur if the other optical channel is provisioned. Workaround: Perform a cold reload (system reload cold ufm) of the UFM.
41089	During an L2-switch firmware upgrade on the CMM, management connectivity may be lost temporarily.
40829	When the active CMM in a dual-CMM chassis is warm reloaded, the output of the show equipment command shows the reloading CMM as operationally up before it has actually come back up.
40616	A Firmware Upgrade Required (firmUpgrdReqd) alarm may be raised spuriously against the CMM after a cold reload of the system. Workaround: Perform a warm reload of the CMM to clear the alarm.
39803	When a user issues a system reload command but does not respond affirmatively to the confirmation dialog, the command returns a prompt and appears in the log file as if the command was executed when in fact it was not.
38476	When repeatedly removing a pluggable transceiver and inserting a new one in its place, a spurious Equipment Mismatch (eqptMism) alarm may be raised even though the final insertion did not result in a mismatch. Workaround: If this problem occurs, remove the transceiver and re-insert it after 30 seconds. To avoid this problem, after removing a transceiver, wait 30 seconds before inserting a new one in.
35068	The show amp commands may display incorrect power values. Workaround: Use the show statistics current command for the amplifier instead.
34338	The show statistics command for UFM6 displays an incorrect name for the CPU load average value. The displayed name is always "CPU 1-minute load avg.", which may be misleading.
33501	De-provisioning a CMM as a system controller (no system controller-1) and then adding it back (system controller-1) within a short time period might cause the CMM to come up in an incorrect state. Workaround: After de-provisioning a CMM, wait until the other CMM becomes active before adding the de-provisioned CMM back.

Issue	Description
32149	When a module is replaced in a chassis, the CLI commands show system version and show system firmware will not display the correct software and firmware information for this module until the operational state of the module changes to UP. Prior to this occurring, the output displays the software and firmware versions of the previous module.
31812	<p>De-provisioning a CMM while another CMM is synchronizing with it might lead to an unrecoverable error that requires a software reinstallation from a USB system repair drive.</p> <p>Workaround: Wait until the CMMs are synchronized before de-provisioning a CMM. The CMMs are synchronized when the show system command displays the HA Status as In Sync.</p>
28745	<p>The actions of the following commands are not completed until the next system restart:</p> <ul style="list-style-type: none">• system database restore remote-url• system upgrade remote-url path

4 Known Limitations

Known limitations are issues that are not planned to be resolved, and that may not be described in the documentation set for this release. These limitations may be described in a future release of the documentation set where applicable and necessary. Once a limitation is described in the documentation set, the limitation may be removed from this list (without notice).

Issue	Description
46391	LLDP snooping is supported on Ethernet interfaces created in releases 4.1 and higher. LLDP snooping is not supported on Ethernet interfaces created in pre-4.1 releases. If you create an Ethernet interface in a pre-4.1 release and you subsequently upgrade the chassis to release 4.1 or higher, LLDP snooping will not work on that Ethernet interface until you perform an action that causes the Ethernet interface to be recreated, such as by explicitly deleting and re-adding the interface or by a cold reload of the UFM. Both actions are service affecting.
46294	<p>The system upgrade firmware retimer command might occasionally fail to upgrade the re-timer firmware.</p> <p>Workaround: If the command fails or if a Firmware Upgrade Failed (firmUpgrdFail) alarm is raised, issue the system upgrade firmware retimer command again.</p> <p>Note: This command might take up to 20 minutes to complete.</p>
46008	<p>A CMM switchover occasionally causes older historical PM bins to age out prematurely, resulting in loss of historical PM data.</p> <p>Workaround: To reduce the risk of losing PM data, retrieve PMs from the BTI7800 network element daily.</p>
45857	<p>Upon replacing a CMM in a dual CMM system, the newly inserted CMM might not upgrade the SHMM firmware automatically. Traffic is not affected.</p> <p>Workaround: Perform a system reload warm cmm of the newly inserted CMM.</p>
44703	<p>The show tech-support command sometimes outputs the following message repeatedly:</p> <pre>0% collecting card files from all CMM's : {cmm:2/B, 0%} {cmm:1/A, 0%} {cmm:1/B, 0%} ... and 1 other cards</pre> <p>Workaround: This problem is caused by core files using too much disk space. Use the debug-utils delete-core-files command to remove core files.</p>
44502	If a 10GE or 100GE client port on a UFM6 module receives a non-Ethernet signal, the port raises an los (Loss of Signal) alarm instead of an loSync (Loss of Synchronization) alarm.

Issue	Description
44468	<p>The upgrade from a pre-4.1 release to release 4.1 or later might fail if this is the first time you are upgrading the pre-4.1 system (to any release) after you commissioned it. When the upgrade fails, the show system upgrade command displays a Current Status of commit-failed.</p> <p>Workaround: If this occurs, try the system upgrade remote-url, system upgrade download, and system upgrade commit commands again. Note that you should retry all three commands even if the show system upgrade command indicates that the original download was successful.</p>
46268 44442	<p>The system upgrade firmware shmm command might occasionally fail to upgrade the SHMM firmware.</p> <p>Workaround: If the system upgrade firmware shmm command fails or if the show system firmware command shows that the SHMM firmware has not been upgraded successfully, issue the system upgrade firmware shmm command again.</p>
43739	<p>The system upgrade commit command might fail occasionally. In some cases, the command returns an error, while in other cases, the command is accepted but the show system upgrade command shows that the commit has failed. Traffic is not affected.</p> <p>Workaround: Issue the system upgrade commit command again.</p>
40661	<p>If you specify a metric when you delete a management static route (i.e. <code>no mgt static ip_address interface interface metric</code>), the CLI accepts the command but does not delete the static route.</p> <p>Workaround: When you delete a static route, do not specify the metric (i.e. <code>no mgt static ip_address interface interface</code>).</p>
40004	<p>FPSD is disabled during a software upgrade. Therefore, if a condition causing FPSD to turn off the laser occurs prior to a software upgrade, the laser will remain off until both of the following occur:</p> <ul style="list-style-type: none"> • FPSD is re-enabled after the upgrade completes • the condition causing FPSD to turn off the laser has lifted <p>Workaround: If this is an issue that you want to avoid, disable FPSD on the interface before performing a software upgrade.</p>
38728	<p>A warm reboot of a UFM while provisioning changes are being committed may cause an Equipment Degrade (eqptDgrd) alarm.</p> <p>Workaround: If this occurs, perform a cold reboot of the UFM. To prevent this problem from occurring, wait 30 seconds after the provisioning changes have been committed and services are back up before performing a warm reboot of a UFM.</p>
38713	<p>CLI auto-completion is not supported when specifying the target ports in the WPS4 protection wavelength switch command.</p> <p>Workaround: Specify the target ports manually.</p>

Issue	Description
37980	<p>During commissioning, the following error sometimes appears: BTI CMM Commissioning Shell exiting as failed to read fru_info.ini file</p> <p>Workaround: If this occurs, unseat both CMMs and then re-seat both CMMs.</p>
37441	<p>The BTI7800-EQUIPMENT-MIB contains extra TEXTUAL-CONVENTION definitions. See Appendix A for details.</p> <p>Workaround: These definitions are not needed and can be ignored.</p>
34529	<p>If an Equipment Degrade (eqptDgrd) alarm is raised against a BIC, no new provisioning can be applied to any other component on the same UFM as long as the alarm is in effect.</p> <p>Workaround: Disable and re-enable the alarmed BIC to clear the alarm. This is service-affecting.</p>
33164	<p>The DCM time delay is not updated on the AMP after the DCM's PEC is changed.</p> <p>Workaround: Perform a warm reload of the AMP after changing the DCM.</p>
33163	<p>The DCM time delay is not reset on the AMP after DCM equipment is removed from it.</p> <p>Workaround: Perform a warm reload of the AMP after de-provisioning the DCM.</p>
32908	<p>When both CMMs (or the single CMM in a single-CMM system) are restarted or re-seated, the show equipment command may temporarily indicate that no equipment is present. This condition occurs for approximately 30 seconds within the first 6 minutes of the CMMs restarting.</p> <p>Workaround: Use the show inventory command to see the equipment. To verify that there are no issues with the equipment, use the show conditions command and verify that there are no <i>equipment missing</i> alarms.</p>
32806	<p>The 10GE interface does not return a Remote Fault (RF) when it detects a Local Fault (LF).</p> <p>Workaround: None. However, compliant end devices will return a Remote Fault (RF) so all upstream devices will see the failure.</p>
32511	<p>In a multi-chassis system, pulling a CMM module from the hub chassis and pulling its attached counterpart from the satellite chassis may cause the other CMM on the satellite chassis to restart.</p> <p>Workaround: Wait a minimum of 10 seconds after pulling a CMM module before pulling the other.</p>
32146	<p>In a system with two CMMs, upgrades should only be performed if both CMMs are operationally up.</p>
30507	<p>When using a Spirent or IXIA test set to conduct tests over a 10GE interface with the BTI7800, the BTI7800 may occasionally report a RF.</p> <p>Workaround: Use the equivalent test sets from JDSU or EXFO.</p>

5 Related Documentation

For more information on the BTI7800, refer to these publications:

- *BTI7800 Series Command Line Reference Guide*
- *BTI7800 Series Hardware Overview and Installation Guide*
- *BTI7800 Series Software Configuration Guide*
- *BTI7800 Series Alarm and Troubleshooting Guide*