



BTI™ 7000 Series

Release 11.2.5

NE Build 11-2-5 C002, proNX™ 900 Build 11-2-0 C001

Release Notes

STANDARD

Part No.: BT7A76AA Rev. 01
October 2014

Copyright 2003-2014 BTI Systems, Inc. All rights reserved.

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

Copyright 1997-2001 Lumos Technologies Inc. All rights reserved. Unpublished - All rights reserved under the copyright laws of the United States. This software is furnished under a license and use, duplication, disclosure and all other uses are restricted to the rights specified in the written license between the licensee and Lumos Technologies Inc.

Copyright 1998-2006 NuDesign Team Inc. All rights reserved. Copyright 1982-2001 QNX Software Systems Ltd. All rights reserved.

Copyright 1990-2001 Sleepycat Software. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. Redistributions in any form must be accompanied by information on how to obtain complete source code for the DB software and any accompanying software that uses the DB software. The source code must either be included in the distribution or be available for no more than the cost of distribution plus a nominal fee, and must be freely redistributable under reasonable conditions. For an executable file, complete source code means the source code for all modules it contains. It does not include source code for modules or files that typically accompany the major components of the operating system on which the executable file runs. THIS SOFTWARE IS PROVIDED BY SLEEPYCAT SOFTWARE "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT, ARE DISCLAIMED. IN NO EVENT SHALL SLEEPYCAT SOFTWARE BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright 1990, 1993, 1994, 1995 The Regents of the University of California. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright 1995, 1996 The President and Fellows of Harvard University. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. Neither the name of the University nor the names of its contributors may be

used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY HARVARD AND ITS CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL HARVARD OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright 1998 The NetBSD Foundation, Inc. All rights reserved.

This code is derived from software contributed to The NetBSD Foundation by Christos Zoulas. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. All advertising materials mentioning features or use of this software must display the following acknowledgement: This product includes software developed by the NetBSD Foundation, Inc. and its contributors. 4. Neither the name of The NetBSD Foundation nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE NETBSD FOUNDATION, INC. AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE FOUNDATION OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright 2003 Maxim Sobolev sobomax@FreeBSD.org. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright 1995,1996,1997,1998 Lars Fenneberg lf@elemental.net.

Permission to use, copy, modify, and distribute this software for any purpose and without fee is hereby granted, provided that this copyright and permission notice appear on all copies and supporting documentation, the name of Lars Fenneberg not be used in advertising or publicity pertaining to distribution of the program without specific prior permission, and notice be given in supporting documentation that copying and distribution is by permission of Lars Fenneberg. Lars Fenneberg makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

Copyright 1992 Livingston Enterprises, Inc. Livingston Enterprises, Inc. 6920 Koll Center Parkway Pleasanton, CA 94566.

Permission to use, copy, modify, and distribute this software for any purpose and without fee is hereby granted, provided that this copyright and permission notice appear on all copies and supporting documentation, the name of Livingston Enterprises, Inc. not be used in advertising or publicity pertaining to distribution of the program without specific prior permission, and notice be given in supporting documentation that copying and distribution is by permission of Livingston Enterprises, Inc. Livingston Enterprises, Inc. makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

The Regents of the University of Michigan and Merit Network, Inc. 1992, 1993, 1994, 1995. All Rights Reserved.

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies of the software and derivative works or modified versions thereof, and that both the copyright notice and this permission and disclaimer notice appear in supporting documentation. THIS SOFTWARE IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE REGENTS OF THE UNIVERSITY OF MICHIGAN AND MERIT NETWORK, INC. DO NOT WARRANT THAT THE FUNCTIONS CONTAINED IN THE SOFTWARE WILL MEET LICENSEE'S REQUIREMENTS OR THAT OPERATION WILL BE UNINTERRUPTED OR ERROR FREE. The Regents of the University of Michigan and Merit Network, Inc. shall not be liable for any special, indirect, incidental or consequential damages with respect to any claim by Licensee or any third party arising from use of the software.

Copyright 1991-2, RSA Data Security, Inc. Created 1991. All rights reserved.

License to copy and use this software is granted provided that it is identified as the "RSA Data Security, Inc. MD5 Message-Digest Algorithm" in all material mentioning or referencing this software or this function. License is also granted to make and use derivative works provided that such works are identified as "derived from the RSA Data Security, Inc. MD5 Message-Digest Algorithm" in all material mentioning or referencing the derived work. RSA Data Security, Inc. makes no representations concerning either the merchantability of this software or the suitability of this software for any particular purpose. It is provided "as is" without express or implied warranty of any kind. These notices must be retained in any copies of any part of this documentation and/or software.

All other product and company names are trademarks or registered trademarks of their respective companies. All of the above-referenced components are not necessarily included in all versions of the product.

Obtaining technical support

For technical support, email support@btisystems.com, or call one of the following phone numbers

- From North America: 1 866. 431. 4967
- International: +1 613.287.1720. If a licensed BTI Systems™ reseller supplied your equipment, please call your reseller's support line. If you are a registered BTI Systems customer, you can also access support services through the BTI Systems customer portal at www.btisystems.com.

Document Identification

BTI Systems™ 7000 Series Release 11.2.5: Release Notes

Abstract

This document is designed to provide information related to the current release.

Publication History

Revision	Date	Changes
V1.0	October 2014	Includes new features, enhancements, and issues resolved and known in Release 11.2.5.

Contents

1	Introduction	7
1.1	Purpose.....	7
1.2	Enhancements.....	7
2	Resolved Issues	9
2.1	BTI™ 7000.....	9
3	Known Issues	11
3.1	BTI™ 7000 Network Element	11
3.2	Network element hardware limitations	28
3.3	proNX™ 900 Node Controller	28
4	Related Documentation	29
5	Appendix – Known limitations	30

1 Introduction

1.1 Purpose

This document describes BTI Systems™ 7000 Series Release 11.2, 11.2.1, 11.2.2, 11.2.3 and 11.2.5 Network Element and proNX™ 900 software features, supported hardware, resolved and known issues.

1.2 Enhancements

The following is a list of the new/enhanced features in this release.

- 96-channel 4D ROADM-on-a-Blade module

High capacity, high density, cost and performance-optimized data center networking:

- point-to-point
- linear multi-node
- ring and mesh interconnect.

Features:

- Fully reconfigurable any wave anywhere DWDM ROADM solution.
 - 96 channels with 50 GHz spacing.
 - Ready to scale to 9.6 Tbps with 100 Gbps coherent wavelengths.
 - Full 96-channel add/drop with the 96-channel multiplexer/demultiplexer.
 - Same footprint as the existing ROB modules.
 - Seamless service provisioning and performance monitoring with proNX Service Manager
 - Integrated pre- and post-amplifiers, integrated OSC.
 - Dynamic channel power control and equalization.
 - Use with the new full band and sub band tunable XFPs.
 - Maximum span loss of 31 dB.
- CLI command support for amplifiers
 - CLI command support for the Dual 10G Multiprotocol Transponder (BT7A49AA, BT7A49AA-I02) and the Dual 10G Multiprotocol Transponder Lite (BT7A49AC)
 - CLI command support for NTP
 - CLI command support for OSC Ethernet interfaces
 - packetVX support for the ability to disable CCMs for ERPS services

1.3 packetVX Scope Restrictions in Releases 11.2, 11.2.1, 11.2.2, 11.2.3 and 11.2.5

The following features are not supported in this release:

- Loop Guard.
- Customer Spanning Tree is not supported. If customer spanning tree is enabled before upgrading to this release, it will be disabled after the upgrade.

1.4 packetVX Support

From release 11.1 onwards, full support is provided for PVX80, stacking, and G.8032 v2 ladder ring.

1.5 Scaling In packetVX

- The number of services that can terminate on a single packetVX is 300. This limit assumes that CCM sessions (1 minute intervals) are operated on all services and that customer spanning tree is not peered on any UNIs. This value is also limited by other things like PSM (proNX Service Manager) accumulating service information from the node. This number is reduced if customer spanning tree is being peered on any UNIs.
- The number of services that can be supported network wide is 1000. This limit assumes that CCM sessions (1 minute intervals) are operated on all services. Services that are not running CCM sessions do not count against this network-wide limit.
- The total number of MEPs that are supported network-wide is 2000.

1.6 Upgrading to Releases 10.3.x and later

To work around various issues that may arise after upgrading from BTI software Releases 8.x or 9.x to Releases 10.3.x and later, reference Section 6: “Appendix – Upgrade Considerations.”

2 Resolved Issues

2.1 BTI™ 7000

The following table lists BTI™ 7000 software limitations that are resolved in this release.

Issue Numbers	Description
34933	Description: A timing marginality in the channel monitoring firmware on some ROB2 and ROB4 revision 10 cards (BT7A07AA, BT7A07BA) may cause occasional incorrect measurements of channel powers. The incorrect measurements may appear in the historical channel power PM log, may cause alarm thresholds to be crossed temporarily, and may occasionally cause temporary traffic disruption. The issue is resolved by an adjustment in the firmware timing.
32801	Description: The Dual 10G Multiprotocol Transponder (BT7A49AA-I02) does not pass D1, D2, and D3 bytes transparently for an OC192 (Client) OC192FEC (Line) setup.
15388	Description: The system may deny deletion of NNI's if an unused ERPS service is provisioned on the system. This will only occur if the unused ERPS service does not have any NNI's assigned to it.
21589	Description: If a database restore changes a provisioned optical cross-connect from add/drop to pass-through or vice-versa, the new optical cross-connect does not turn up correctly.
23103	Description: If an NNI is part of an ERPS Main- or Sub-ring, and you try to make the Main- or Sub-ring part of a forbidden VLAN list, all the ports of the ring must be part of the forbidden list. If only one port is part of the forbidden list, the configuration is not valid and results could be unpredictable.
24738	Description: When restarting both ends of a line simultaneously, the system may fail to clear the Loss of Signal Alarm on one end. Workaround Restart the SCP on that end.
25398	Description: When manually setting the Remote MEP-ID for an ERPS Ring port, the Remote MEP-ID does not appear in the CLI output until the ERPS Service is enabled. Workaround: Enable the service.
25556	Description: If a PVX detects an SF condition, the near end node may indicate Link Down while the far end node still indicates Link Up.
26045	Description: When you provision an ERPS service on a packetVX connected to 700 or 800 network elements you have to set the Remote MEP, as well as the ME Name. For example: BTI7000:sw1(config-nni-eservice)# me-name x BTI7000:sw1(config-nni-eservice)# remote-mep-id 1412 BTI7000:sw1(config-nni-eservice)# me-name link34 Otherwise, the Remote MEP ID displays zero.
26086	Description: If a failover occurs when ERPS Forced protection switching is enabled for a Network Element in the main ring, some of the Eservices go down. This impacts traffic carried on these Eservices.

Issue Numbers	Description
26875	Description: Provisioning PVX stacking on a stand-alone node that is already running ERPS may in some case lead to duplicate local MEP IDs.
26132	Description: After a link fails on a node in the ERPS ring, the other nodes in the ring report "remote signal failed", as expected. However, when the failed link is restored, the other nodes may erroneously continue to display "remote signal failed". This is only a display issue. System operations are not affected.
26212	Description: In an OC192/OC192 configuration on a TPR10G module, if the client port is placed in a facility loopback and the module is warm restarted, traffic is interrupted.

3 Known Issues

3.1 BTI™ 7000 Network Element

The following table lists known BTI™ 7000 Series network element (NE) limitations in the release.

Issue	Description
30267	<p>Description: If you delete a static VLAN without first removing the forbidden NNI list, the forbidden NNI list is not cleared, even after the VLAN is deleted. To prevent this problem from occurring, remove the forbidden NNIs first before you delete the VLAN.</p> <p>Workaround: If the problem occurs, recreate the VLAN, re-add the forbidden NNIs, and then remove the forbidden NNIs.</p>
30249	<p>Description: Adding a UNI to an Ethernet service may cause the forbidden NNIs on the S-VLAN associated with that service to be removed.</p> <p>Workaround: If this occurs, recreate the list of forbidden NNIs on the S-VLAN.</p>
30043	<p>Description: If you are running a shared-link configuration on the spanning tree root bridge, the root bridge may begin to transmit Proposals after a software upgrade.</p> <p>Workaround: If this occurs, toggle the Link-Type of the shared links on the root bridges from shared to point-to-point and back to shared.</p>
29577	<p>Description: The thresholds in the SLA-measurement profile still apply even after removing the profile from the UNI.</p> <p>Workaround: In order to change the SLA profile, add a new profile with new thresholds and apply this new SLA profile to the UNI.</p>
29555	<p>Description: When running an SLA throughput test while there is background traffic, some packets from the test may be dropped at the NNI even when there should be enough bandwidth.</p> <p>Workaround: Ensure the SLA throughput test is running at a higher S-VLAN priority than the other traffic.</p>
29369	<p>Description: The "show uni lag" command always displays the aggregate rate as 0 Mbps.</p> <p>Workaround: None.</p>
29146	<p>Description: When using the proNX900 GUI to clear historical PMs (OSC, PORT, WCH) bins 1 to 96, the PMs are not cleared properly.</p> <p>Workaround: Use TL1 to clear these historical PMs.</p>
29023	<p>Description: When restoring a database, circuit pack power feed failure conditions against the BT7A49AA-I02 transponder (on a node with more than one chassis) are converted to alarms.</p> <p>Workaround: Perform a warm reboot of the SCP after restoring the database.</p>

Issue	Description
28900	<p>Description: When using both the Management VLAN (inband management) and NMS IP (out-of-band management), traps may not be properly routed if the SNMP trap receiver is configured before the Management VLAN or if the PVX module is rebooted.</p> <p>Workaround: Reset the SCP or provision a new trap receiver that is reachable via the NMS IP interface.</p>
28471	<p>Description: The CLI cannot be used to provision GCC on transponder ports.</p> <p>Workaround: Use TL1 to configure GCC on transponder ports.</p>
28265	<p>Description: The CLI Equipment Configuration Mode allows the user to set the power feed for equipment other than shelves. This command completes successfully but does not execute the intended behavior, and is not supported.</p>
28119	<p>Description: When sending in a high priority flow of 9600-byte packets, as in an SLA throughput test, some packets may be dropped in favor of traffic from a lower priority flow.</p> <p>Workaround: Run the SLA throughput test using a smaller frame size.</p>
28103	<p>Description: If the database that you are restoring does not match the provisioning currently running on the card, you must perform a cold reboot on the card after restoring.</p>
28061	<p>Description: When deleting an SLA throughput test frame, the “no” form of the command is not supported.</p> <p>Workaround: Delete the frame by setting the frame size to 0. For example:</p> <pre data-bbox="573 1104 1222 1129">BTI7000:sw3(config-throughput-init)# frame-size-1 0</pre>
28030	<p>Description: When running a throughput test with large packet sizes and a small CIR value, the resulting throughput may be lower than expected.</p> <p>Workaround: Use CIR values greater than 10 Mbps when running a throughput test.</p>
28029	<p>Description: When running a best-effort throughput test where one or both endpoints are on a PVX80 module, yellow packets may not be handled correctly and the resulting best-effort throughput may be lower than expected. If you are running a CIR throughput test instead, ensure packets are not marked yellow by setting the exceed action correctly at both ends:</p> <pre data-bbox="573 1493 943 1518">exceed-action set-dei disable</pre>
27783	<p>Description: When manually adding a C-VLAN-MAPPING entry on a virtual-untagged UNI by issuing the 'map c-vlan xx s-vlan xx' command in 'c-vlan-map switch port' mode, and then issuing the 'no c-pvid' command, the PVX will go into infinite loop state, and the CLI will not respond to any command.</p> <p>Workaround: Instead of using the C-VLAN-MAPPING entry in switch port mode, use the MEF provisioning method by creating the UNI, changing its C-PVID if needed, and associating this UNI to the appropriate eservice. Do not execute the 'no c-pvid' command.</p>

Issue	Description
27508	<p>Description: When deleting both a UNI and statically-configured NNIs from an EVPLAN service, the remaining endpoints may show the deleted UNI as down rather than removed from the service.</p> <p>Workaround: Delete the UNI first before deleting the NNIs. This allows the CCM flush messages from the deleted UNI to reach the other endpoints.</p>
26939	<p>Description: LAG Bouncing: On some rare occasions, a member-link of a LAG interface may bounce on one side following a reboot of the PVX after a software upgrade. LAG bouncing can negatively impact the MSTP or ERPS protocols.</p> <p>Workaround: The following workaround is recommended for all LAG interfaces in the network after an upgrade. By default, the LACP protocol is active when the LAG interface is created. Turn-off LACP protocol by setting the LACP mode to ON for every LAG interface in the network.</p>
26641	<p>Description: For the 96-channel ROB4 cards, the PM validity flag on L1,C1,C2,C3,C4 ports for 15min & 1day historical PM bins are not updated consistently and show PRTL.</p> <p>This limitation is not applicable to DOL ROB2/ROB4/DLA2-44chs cards.</p>
26256	<p>Description: A shelf mismatch alarm may be masking the release number mismatch alarm.</p> <p>Workaround: None.</p>
26106	<p>Description: For Layer 1 PMs (performance monitoring) on packetVX modules, the 10G ports do not report invalid blocks. The GigE ports do not report Code Violations. There is no known workaround.</p> <p>The 10G ports on the packetVX 80 properly report invalid blocks.</p>
26018	<p>Description: When responding to historical PM queries for STM-N counts, the BTI 7000 returns temperature values with a different precision for a TL1 query versus an SNMP query.</p>
26011	<p>Description: When upgrading a network running G.8032-V1, multiple ports may be blocked on the ring isolating a node.</p> <p>Workaround: For workaround procedures refer to the Appendix—Upgrade Considerations.</p>
25965	<p>Description: The packetVX does not support GVRP/GMRP tunneling on a UNI LAG on any EVP Eservice.</p>
25727 25625 25624	<p>Description: For ERPSv2, RAPS packets may not be forwarded to across node, if a subring with a neighbor is configured in the subring.</p> <p>Workaround: To avoid this issue do not configure neighbors in a subring.</p>
25651	<p>Description: When egress mirroring a UNI port that is tunneling Customer Bridge Spanning tree BPDUs (01:80:c2:00:00:00), the BPDUs are not forwarded to the Mirror-To-Port.</p>

Issue	Description
25601	<p>Description: Occasionally, LLDP shows remote information inaccurately when the interface is not a switchable interface (not UNI, NNI or LAG member). This may occur when various add/remove, operations are performed on LAG members.</p> <p>If you are using PSM (proNX Service Manager), you see a link that does not exist.</p> <p>Workaround: To clear the stale information on an interface showing inaccurate information, disable LLDP on that interface using the command—<code>lldp disabled</code>—from Ethernet Interface configuration mode.</p>
25871	<p>Description: In a network configuration where a Transponder 49AA card is connected to a Transponder 49AA-I02 card, the 49AA-I02 card will always interpret a Local Fault (LF) as a Remote Fault (RF)..</p> <p>Workaround: None.</p>
25566	<p>Description: - If the NNIs facing the NE to be restored are not shutdown prior to restoring the database, the network may react adversely to the new switch as the provisioning is applied.</p> <p>Workaround: It is always recommended to isolate a node while performing a database restore to ensure it has time to come up before interacting with other NEs.</p>
25483	<p>Description: A trap Threshold Crossing Alert (TCA) is not sent to the trap receiver if the bandwidth profile is applied to the Service-UNI with a Service-Policy.</p>
25456	<p>Description: If running G.8032 v1 with MSTP subrings and upgrading to 10.3.0, a restart of an MSTP node adjacent to the G.8032 ring may cause the G.8032 ring to go into protection, triggering the WTR timer.</p>
25436	<p>Description: After an upgrade, the SLA Loss-Delay Measurement may return invalid values (all zeros).</p> <p>Workaround: If this happens, remove the Initiator/Responder pair and recreate them.</p>
25358	<p>Description: Adding a member to a virtual switch causes a traffic hit.</p>
25262	<p>Description: During an equipment failure on a stacked packetVX switch, the protection switch time for cross-card LAG may exceed four seconds.</p>
25191	<p>Description: When adding a UNI to a service, the PCP and DSCP profile and trust settings are reset to their defaults, leading to unexpected PCP and DSCP profile enforcement behavior.</p> <p>Workaround: Add the UNI to the service prior to changing the PCP and DSCP profile and trust settings.</p> <p>In situations where the problem occurs, remove the UNI from the service, delete and recreate the UNI, and re-add it to the service. Then change the PCP and DSCP profile and trust settings to the desired values.</p>
25165	<p>Description: When an SF exists on an ERPS ring port, the other ring port on that node will incorrectly show a Remote SF status. This takes place automatically, even though the second port did not receive an R-APS SF message directly. This problem does not affect ERPS operation.</p>

Issue	Description
25058	<p>Description: In a stacked environment, MAC Address entries for frames ingressing then egressing the Secondary packetVX are not displayed.</p> <p>Traffic running to/from the Primary to Secondary is shown correctly.</p>
25033	<p>Description: The DEI setting does not recover after a switchover event on a stacked packetVX system.</p> <p>Workaround for the packetVX 12/2, 24/2, 24/4: Reconfigure DEI by toggling the setting:</p> <pre data-bbox="665 546 1088 609"> exceed-action set-dei disable exceed-action set-dei enable </pre> <p>Note: The packetVX 80 does not set the DEI bit on exceed traffic. There is no known workaround.</p>
25012	<p>Description: Trust DSCP does not work after a restart of the Primary packetVX.</p> <p>Workaround: Unset the DSCP-PHB profile and reset it.</p>
24988	<p>Description: In a stacking configuration where the MTP (Mirror-To-Port) and MFP (Mirror-From-Port) are on separate packetVX modules, when the secondary packetVX is acting as the primary, after a switchover back to the primary, the system does not use the existing port mirroring settings.</p> <p>Workaround: After the switchover back to the primary, you need to reconfigure port mirroring on both the mirror-from and mirror-to ports.</p>
24975	<p>Description: When changing a MFP (Mirror-From-Port) direction between egress and ingress the change may not take effect.</p> <p>Workaround: Disable the mirror setting on the port using the command <code>no mirror mirror-from-port {ingress egress}</code> and reconfigure the port with the preferred direction using the command <code>mirror mirror-from-port {ingress egress}</code>.</p>
24954	<p>Description: On UNI and NNI ports, frames with sizes larger than 9216 bytes are not accounted for in the 1519+ received byte counter. They are accounted in global statistics only. However, the frames are passing through the system successfully.</p>
24946	<p>Description: In configurations where a Y-cable is used between a dual 10G transponder module (BT7A49AA or BT7A49AA-I02) and a packetVX or packetVX 80, client-side Y-cable protection switch times may be longer than 50ms in some instances.</p>
24858	<p>Description: After resetting both the primary and secondary packetVXs or after a failover, the MEP ID of a LAG UNI may be recalculated and deviate from the original value.</p> <p>This causes the eServices, of which the LAG is a member, to go Operationally down due to the failed remote MEP ID.</p> <p>Workaround: To clear this, go to the S-UNI of the eService and execute the command: <code>cfm flush-rmep-db</code>. This forces the eService to relearn the new MEP IDs.</p>
24787	<p>Description: In a stacked environment, the Set-DEI Exceed action does not set the DEI bit correctly, if one of the packetVX modules in a stack is restarted.</p>

Issue	Description
24758	<p>Description: If you change the UNI's default priority from zero (default=0) to other value, and add that UNI to the Eservice, the default priority goes back to zero.</p> <p>Workaround: To set the preferred default priority on the UNI follow this procedure:</p> <ol style="list-style-type: none"> 1. After adding the UNI to an Eservice, change the default-priority to another value. 2. Modify this value back to the preferred default priority value.
24638	<p>Description: After rebooting a packetVX module, the STP cost may become very large (for example, 200000000).</p>
24616 24111	<p>Description: An egress profile on a packetVX 80 is not supported on a UNI.</p>
24573	<p>Description: The maximum number of allowed Service-Map Service-Policies (on S-UNI) is 256. Attempting to create a 257th Service-Map Service-Policy fails but does not return an error.</p>
24443	<p>Description: Intermittent CCM failure after NE upgrade.</p> <p>Workaround After the NE upgrade is complete (indicated by the SYSUPGRDPROG (System Software Upgrade in Progress) alarm changing from Major to Minor), restart the SCP. Enter the TL1 command init-sys::scp-1-1:100:0:cmDMDE=frcd.</p> <p>Note: It is important to enter this command only once the SYSUPGRDPROG alarm is Minor.</p>
24297	<p>Description: PCP and DSCP Trust do not work for Private Services.</p>
24237	<p>Description: When a link's configuration is changed from a UNI to an NNI, it might not carry all traffic as expected on an NNI. The egress outer tag is expected to be 88A8, but instead it is 8100.</p> <p>Workaround: When configuring an NNI that was previously a UNI, toggling the s-tag-ethertype is necessary:</p> <pre>BT17000:sw4(config-nni TenGigE 1/1~)# s-tag-ethertype 8100 BT17000:sw4(config-nni TenGigE 1/1~)# s-tag-ethertype 88a8</pre> <p>Note: It is strongly recommended to run this on all NNIs. The history of a link may not be known, and the NNI might have been configured as a UNI in the past.</p>
24221	<p>Description: When a packetVX 80 is rebooted or when interfaces are added to an existing LAG, one or more interfaces may, occasionally, remain down.</p> <p>Workaround: When a LAG member interface is down, use the following procedure to clear this condition:</p> <ol style="list-style-type: none"> 1. Remove the interface from the LAG. 2. Remove the interface from the switch. 3. Re-create the interface on the switch. 4. Re-add the interface to the LAG.

Issue	Description
24188	<p>Description: When port mirroring is configured on an Eservice, and that port is reconfigured with mirror-from-port disabled, traffic from that port continues to appear on the mirror-to-port.</p> <p>For example,</p> <ul style="list-style-type: none"> • Port mirroring is configured on a port carrying an EPLINE service. • The EPLINE service is removed from the port. • This same port is now carrying other Eservice traffic. • Mirror-from-port is removed from this current Eservice port. • Although port mirroring is not configured on the current Eservice port, the traffic from this port continues to appear on the mirror-to-port, configured previously. <p>Workaround: To prevent this traffic from appearing on the mirror-to-port, reconfigure the mirror-from-port on the current port and then delete it.</p>
24141	<p>Description: If the UNI LAG is already a member of the Eservice and new member ports are later added to the LAG, the C-VLAN translation does not work on the newly added members. It continues to work for the ports which already are members, however.</p> <p>Workaround: To make C-VLAN translation work on the newly added members, remove the LAG from the Eservice and add it back in.</p>
24114	<p>Description: In a stacked environment, if LAGs exist on the system and the LACP protocol is disabled globally, the Secondary may still transmit LACP PDUs.</p> <p>Workaround: Restarting the Primary packetVX stops this behavior; however, it is generally recommended that you do not disable the LACP protocol globally.</p>
24113	<p>Description: After disabling CFM crosscheck on an Eservice, the remote MEP list is not deleted, so the Eservice goes into an Operational Down state.</p> <p>Workaround: Use the <code>cfm flush-rmep-db</code> command on a UNI assigned to the Eservice.</p>
24074	<p>Description: CVLAN translation does not work on packetVX modules if the ingress NNI on that switch is set to 8100.</p>
24054	<p>Description: If the virtual switch does not have any members, assigning an IP address to a MgmtVLAN fails with error "% Requested operation failed. Internal system fault".</p> <p>Workaround: Add members to the virtual switch before assigning an IP address to a MgmtVLAN.</p>
24023	<p>Description: The CLI command, show vlan all, does not display dynamically learned VLANs.</p> <p>Workaround: To display dynamically learned VLANs, use the command, show vlan dynamic, which displays all the VLANs learned dynamically on a virtual switch, in addition to any statically configured VLANs.</p>
23993 22795	<p>Description: On a UNI with a 10Gig interface set to line mapping OTU2, the shutdown on one side does not cause the far end to go down.</p>

Issue	Description
23991	<p>Description: When there are two UNI ports at EPLINE/EVPLINE Eservice, the existing NNI port cannot be deleted because it belongs to the forbidden port list.</p> <p>Workaround: To delete an NNI port, remove the NNI port from the VLAN's forbidden port list.</p>
23925	<p>Description: A UNI or NNI cannot be added to an eService if it is administratively disabled.</p> <p>Workaround: If an eService needs to be administratively disabled with a UNI or NNI, enable the eService, add the UNI or NNI, and disable the eService.</p>
23903	<p>Description: After downgrading from 10.1.2 to 8.1.4, using the following procedure, the SCP may raise a reject provisioning command with the error that an SCP mismatch exists:</p> <p style="padding-left: 40px;">INVK-DB-DLT CMMT-DB-DLT INVK-SYS-UPGRD CMMT-SYS-UPGRD</p> <p>Workaround: To clear the mismatch alarm, perform a second DB delete operation, running 8.1.4.</p> <p>Note: This occurs on downgrades from only Release 10.1. This issue does not exist on downgrades from Release 9.x.</p>
23771	<p>Description: Egress frames mirrored from a UNI on a PRIVATE eService retain the S-VLAN tag of the eService.</p>
23709	<p>Description: Attempting to set the DSCP value of a frame with an Egress bandwidth profile on a packetVX 80 does not function correctly. No workaround known.</p>
23620	<p>Description: When performing a database restore, where the difference between the current configuration and the database being restored is significant, some alarms may not clear, automatically.</p> <p>Workaround: Reboot the SCP following the database restore.</p>
23617	<p>Description: Non-provider bridge BPDUs (01:80:C2:00:00:00) tunnel correctly and egress the UNI, without the C-Tag that was matching the C-PVID of the UNI.</p> <p>However, all the other L2 control frames continue to egress the UNI with the CTAG. For example:</p> <p style="padding-left: 40px;">GVRP 01:80:C2:00:00:21 LACP 01:80:C2:00:00:02</p>
23603	<p>Description: When there are "Unexpected MEP" and "Unexpected Period" defects reported on the local MEP, an incorrect RMepID is displayed.</p> <p>Workaround: To clear the "Unexpected Period" defect, perform a "ccm flush" on both the far end and the near end. There is no workaround for the RMepID display issue.</p>
23388	<p>Description: Reverting an upgrade back to 8.1.x may result in spurious circuit pack upgrade failure alarms.</p> <p>Workaround: Restart the SCP to clear the alarms.</p>

Issue	Description
23195	<p>Description: The status of the DOL OSC link is not updated properly following a recovery from an optical problem, such as, Optical Back Reflection (OBR) on the line or Loss of Lock (LOL).</p> <p>Workaround: Restart the SCP to clear the alarm.</p>
23092	<p>Description: When changing the delay-measurement s-vlan-priority value through either the CLI or the proNX 900, the configuration may need to be repeated to accept the new value.</p>
23065	<p>Description: In an EPLAN/EVPLAN Eservice, when doing a link trace from one MEP to another, the link trace does not display the switch name at the middle hop.</p>
22836	<p>Description: When running SLAs for an Ethernet service, the reported "Maximum delay variation" and "Average delay variation" may occasionally show values larger than what is possible given the measured "Maximum delay" and "Minimum delay" values. This is incorrect.</p>
22812	<p>Description: SNMP traps may not be sent on the management VLAN if the trap receiver is added before the management VLAN service is configured.</p> <p>Workaround: If this problem occurs, perform a cold restart of the SCP. Alternatively, to prevent this problem from occurring, configure the management VLAN service prior to adding SNMP trap receivers.</p>
22649	<p>Description: If a database restore is performed in a system where Ethernet services have already been configured, there is a chance that some MEPs in the MEP list may not be properly removed during the restore. After the system comes back up, the existence of these MEPs in the list may cause a "MEP already exists in MEP List table" error when adding a UNI to an Ethernet service.</p> <p>Workaround: If this problem occurs, add the UNI again.</p>
22629	<p>Description: Disabling or deleting an ERPS service is not detected as a ring failure and can lead to a network storm.</p> <p>Workaround: Refer to the following sections in the <i>BTI 7000 Series packetVX Solutions Guide</i> for the procedures for changing the ME-Name:</p> <ul style="list-style-type: none"> • Adding a packetVX in an ERPS network • Removing a packetVX in an ERPS network • Replacing a packetVX in an ERPS network
22582	<p>Description: The capability to re-mark DSCP by enabling it in an ingress bandwidth profile is not supported. The profile can be created and applied at the ingress, but the DSCP in the incoming packet is not re-marked. However, egress DSCP re-marking is supported by enabling it in an egress bandwidth profile.</p>
22351	<p>Description: When ERPS is disabled, MSTP may not always protect the ring.</p> <p>Workaround: Block one port manually until you enable ERPS for proper ring protection.</p>

Issue	Description
22251	<p>Description: When a “Link down” event occurs on a 10G interface with line-mapping set to otu2-gpf1, the event is not raised as an alarm, but it is raised as a condition.</p> <p>Workaround: When line-mapping is set to otu2, look at both the alarm and condition tables for “Link down” events. Note that when line-mapping is set to 10ge-lanphy, both the alarm and condition are raised properly.</p>
22225	<p>Description: PVX LEDs are not set correctly for “Link down” events but events are posted to the alarm and condition tables.</p> <p>Workaround: In order to detect “Link down” events, examine both the alarm and condition tables.</p>
22078	<p>Description: Disabling GVRP does not remove VLANs from an NNI. A loop occurs, if the MSTP is also disabled.</p> <p>Workaround: MSTP or ERPS must be enabled to block one link to prevent the loop.</p>
22052	<p>Description: When there is a cross-card LAG configured with bandwidth profiles applied to member ports of various Ethernet service(s), the PVX card raises the following error when a previously deleted member of a LAG is added back into the LAG.</p> <p>Error: "A bandwidth profile is assigned to the LAG, adding a cross card member not supported".</p> <p>Note that the system will let you delete the port but not re-add it.</p> <p>Workaround: In order to add a member back into the LAG, first delete the bandwidth profile for each service in which the LAG is a participating member. Then add the port back into the LAG.</p>
21785 19301	<p>Description: Restarting the SCP while a CCM is upgrading may leave the CCM in a CP fail condition.</p> <p>Workaround: Restart the CCM.</p>
21683	<p>Description: Setting a NNI port TPID value to 0x8100 causes Egress BW Profiles on UNI ports on that switch to not work correctly. This occurs only when the UNI is on a different PVX from the NNI port, since traffic needs to cross the stacking port to get from the NNI to the UNI.</p> <p>Workaround: Do not provision NNI ports with the 0x8100 TPID value. To inter-operate with third-party equipment using 0x8100 TPID on NNI links, terminate that on a non-stacked PVX.</p>
21591	<p>Description: Multiple GCC0 and/or ODCC channels between two nodes can lead to nodes becoming unreachable. When using GCC/ODCC management, it is recommended to have a single GCC and/or ODCC channels between two nodes.</p> <p>Workaround: Ensure there is only a single GCC0 and/or ODCC channel between two nodes by de-provisioning all GCC0/ODCC channels between the two nodes except one. If a site becomes unreachable, reset the SCP on either end of the span.</p>
21454 25059	<p>Description: packetVX static multicast entries do not take effect. Traffic continues to be cast on all ports associated with the VLAN IDs.</p> <p>Workaround: Use multiple unicast entries instead.</p>

Issue	Description
21369	<p>Description: Modification or reconfiguration on a link, with a LAG as part of a UNI, may fail.</p> <p>Workaround: To modify or reconfigure the link, follow this procedure in the order specified:</p> <ol style="list-style-type: none"> 1. Remove a link from the LAG. 2. Shutdown. 3. Perform a modification or reconfiguration operation. <p>Once modification or reconfiguration operation is successfully completed, you can enable and put back the link to a LAG.</p>
21368	<p>Description: Cu SFPs and Cu ports on the packetVX do not properly detect loss of fiber connection and incorrectly reports IS-NR (In Service - Normal) status instead of reporting OOS (Out of Service) status.</p> <p>Workaround: You can determine the Out-of-Service condition by observing port statistics using the show interfaces command, to check if receive (or transmit) packet counters are not incremented, and to check the fiber disconnect condition (either fiber cut or fiber loose connection).</p>
21274	<p>Description: Trace Identifier Mismatch Alarm does not immediately clear when the expected trace identifier field is cleared for a port.</p> <p>Workaround: A workaround is not required. The alarm clears after 10 seconds.</p>
21215	<p>Description: The upgrade of a DOL network to Release 10.1 should not subsequently be cancelled to the previous release. Doing so may impact traffic.</p>
21017	<p>Description: packetVX software does not support connecting a link between two PVXs UNI ports as shown below:</p> <pre style="text-align: center;">Uni --- PVX ---x-- UNI ---x-- PVX --- UNI</pre>
20960	<p>Description: PacketVX modules in a stacking configuration reinitialize five minutes apart during software upgrades, to minimize a traffic hit. Since Release 9.1, a mechanism is in place for both modules to reinitialize at the same time, to complete the software upgrade in the rare event that a fault is detected during resynchronization.</p> <p>Workaround: A workaround is not required. Software upgrades should be scheduled during a maintenance window to minimize customer impacts.</p>
20727	<p>Description: Restarting both the active and standby packetVX modules in the stack may result in disrupting the availability of the standby.</p> <p>Workaround: Adding a 10 second delay between restarts eliminates this problem.</p>
20610	<p>Description: If the stacking link in a stacked packet configuration is not active when configuring ports for auto-negotiation on the Standby packetVX, the ports may not properly auto-negotiate when the stacking link is established.</p> <p>Workaround: Restart the standby packetVX or remove and re-provision the port after the stacking link is established.</p>

Issue	Description
20608	<p>Description: During an SCP restart, the Storm Control traffic pattern changes to a rate which does not correspond to the latest settings, but, corresponds to a previous setting.</p> <p>Workaround: Performing an SCP reboot should only be done at least 45 seconds after the last provisioning change.</p>
20402	<p>Description: When executing a cold restart on an ESI module, transient CONTCOM alarms will appear in TL1. These can be ignored and will clear once the circuit pack has restarted.</p> <p>Workaround: None.</p>
20261	<p>Description: It is not possible to remove GCC from service on a packet port.</p> <p>Workaround: GCC must be deleted from the port to remove it from service.</p>
20248	<p>Description: If inheriting an IP gateway from OSPF when any node in the OSPF had route redistribution "default originate," do not assign a system gateway. Doing so may result in the node becoming "unreachable."</p> <p>Workaround: Correct the provisioning and restart the SCP.</p> <p>This issue was found in Release 9.2.</p>
19999	<p>Description: The CLI does not allow the IP-NMS port to be unassigned.</p> <p>Workaround: Use the TL1 interface to change the IP-NMS port to unassigned.</p>
19888	<p>Description: The service state of the IP-NMS interface cannot be changed if OSPF Interfaces are configured.</p> <p>Workaround: Determine if the IP-NMS Interface is in the desired service state before configuring OSPF Interfaces.</p>
19887	<p>Description: If an OSPF Interface is deprovisioned, it may still appear to have an OSPF neighbor when using the RTRV-OSPF-NGHBR command. This information is incorrect and can be ignored since an OSPF neighbor on that interface does not exist.</p> <p>Workaround: None.</p>
19826	<p>Description: Virtual, untagged members of management VLAN are not supported.</p> <p>This issue was found in Release 9.1.</p>
19787	<p>Description: When restoring a database through ODCC/GCC/OSPF to a remote node, the remote node's SCP may need resetting to continue to be accessible remotely.</p> <p>Workaround: Remove OSPF from service and restore it to service</p>
19700	<p>Description: When replacing an SCP with one that is running a different release, the IP NMS gateway information is not restored.</p> <p>Workaround: Perform the SCP replacement upgrade by directly connecting to the SCP.</p>

Issue	Description
19699	<p>Description: When replacing an SCP with one that is running a different release, the Release number mismatch alarm is not reported as an alarm.</p> <p>Workaround: View the condition table to see the alarm.</p>
19687	<p>Description: Loss of Synchronization alarms may not clear during an upgrade of the 10 G Muxponder.</p> <p>Workaround: Restart the SCP to clear the alarm.</p>
19673	<p>Description: A cold restart of the Common Communication Module may cause transient circuit pack failure alarms on active modules.</p> <p>Workaround: The alarms will clear automatically.</p>
19654	<p>Description: A recently powered on Common Communication Module that is not connected to an SCP will periodically flash the green LED on and off.</p>
19548	<p>Description: A change to the ntpClientPollingRate via SNMP may not be reflected immediately.</p> <p>Workaround: The polling rate will respond within a few minutes.</p>
19524	<p>Description: A cold restart of an ESI may result in a transient "connected device unsupported" alarm.</p> <p>Workaround: Wait for the alarm to clear.</p>
19482	<p>Description: It may take several seconds after an OSPF interface is created using the CLI for it to be displayed.</p> <p>Workaround: Wait until the command completes.</p>
19264	<p>Description: During a database restore operation, the TID will not be restored correctly if the database is updated with a different TID value.</p> <p>Workaround: Restart the SCP after the database restore.</p>
19155	<p>Description: During cold reboot of a Common Communication Module (CCM), a circuit pack missing alarm is raised.</p> <p>Workaround: Wait for the CCM to complete the restart and the alarm will clear.</p>
19140	<p>Description: In software releases 8.1.1 and 8.1.2, the 7200 shelf (PEC BT8A51AR) displays in the inventory as BT8A51AA, when the 7200 is auto-provisioned or when provisioned manually.</p> <p>After an upgrade a shelf mismatch alarm is raised, but, there is no impact on the system.</p> <p>Workaround: Manually edit the shelf PEC through proNX 900 or TL1.</p>
19125	<p>Description: Following an upgrade from a release prior to 7.3, Threshold Crossing Alerts (TCAs) for physical PMs on a port may become disabled.</p> <p>The PhyPMMon port parameter defaults to "OFF". This parameter is not supported.</p> <p>This was found in Release 8.2.1.</p> <p>Workaround: Set the PhyPMMon port parameter to "ON".</p>

Issue	Description
19122	<p>Description: CoS Weight for the WRR Scheduler does not take affect for traffic traversing across the Hi-Gig stacking links. This is because Hi-Gig stacking link follows strict queue scheduling across all COS queue with the following priority mapping. This strict priority applies to all traffic traversing the stacking links:</p> <p>Schedule mode: strict</p> <p>Priority to queue mappings:</p> <p>PRIO 0 ==> COSQ 1</p> <p>PRIO 1 ==> COSQ 0</p> <p>PRIO 2 ==> COSQ 2</p> <p>PRIO 3 ==> COSQ 3</p> <p>PRIO 4 ==> COSQ 4</p> <p>PRIO 5 ==> COSQ 5</p> <p>PRIO 6 ==> COSQ 6</p> <p>COSQ 7 is reserved for internal control plane traffic and is excluded from carrying user data traffic.</p> <p>Workaround: None.</p>
18973	<p>Description: When using the CLI, users cannot query PMs by specific MONTYPE.</p> <p>Workaround: Use the "all" option to view all MONTYPE PMs.</p>
18885, 19286	<p>Description: OSPF is not supported on M-VLAN or GCC interfaces in a stacked PVX.</p> <p>Workaround: None.</p>
18606	<p>Description: The routing table shows routes as valid for local interfaces (IPCRAFT, IP-NMS and MVLAN) even when the interface is not connected.</p>
18432	<p>Description: A linktrace response from a BTI packetVX represents both ingress and egress information as a group; whereas a linktrace response from a 700 device represents the ingress and egress information separately.</p> <p>Information presented is accurate but reporting formats are different.</p> <p>This issue was found in Release 8.2.</p>
18366	<p>Description: The UNI interface may allow Y1731 - SLA Measurement packets to egress.</p> <p>Workaround: Enable MAC learning on line-based services.</p>
18359	<p>Description: It is possible to enable both Drop Conform and TOS Conform in Bandwidth Profiles on the packetVX.</p>
18266	<p>Description: The Coding Violation PM for 1 GE ports and the Invalid Blocks PM for 10 GE port montype entities are not counted.</p>
18125	<p>Description: A newly connected expansion shelf with pack installed may not auto provision.</p> <p>Workaround: Manually provision the packs in the expansion shelf.</p> <p>Status: No fix planned.</p>

Issue	Description
18045	<p>Description: When upgrading from Release 7.2.x to 8.2.x, you may encounter a temporary stoppage in traffic.</p> <p>Workaround: None. However, you should perform this upgrade during a maintenance window.</p>
17865	<p>Description: If the values for MEG and MIP are different, MEP creation may fail when provisioning a UNI.</p> <p>Workaround: Ensure that MEG and MIP values are the same and re-provision the UNI and the EService.</p>
17819	<p>Description: OSPF IS State will only ever show IS-NR.</p> <p>Workaround: For the true state of the link, check the state of the port through which this link passes.</p>
17748	<p>Description: The ERPS NNI failures count is one instance higher than the recoveries count.</p> <p>Workaround: None.</p>
17651	<p>Description: On an upgrade from release 8.1.2 to 8.1.3, the CCM in the main shelf may experience a CONTCOM failure, which will result in CONTCOM failures to service modules present in the main shelf. Traffic is not affected by CONTCOM failures.</p> <p>Workaround: Restart the CCM to resolve the CONTCOM alarms.</p>
17516	<p>Description: If both ends of an EFPD-enabled EPLINE service have different CCM intervals configured on their MEPs, in the absence of data being transmitted on the MEPs, EFPD will engage on both ends.</p> <p>Workaround: Configure the CCM intervals to match each other.</p>
17513 17608 17609 17610	<p>Description: A power cycle of an expansion shelf or multiple cold or warm restarts of Transponders and expansion shelves may result in some ports displaying incorrect states. This is applicable to 7200s populated with multiple Transponders.</p> <p>Workaround: Restart the SCP to resolve this condition.</p>
17457	<p>Description: When LACP state is globally disabled on a virtual switch and globally re-enabled, the LAG interfaces on that switch remain in a DOWN state, instead of the appropriate In-bundle or Standby state. Traffic through the LAG recovers correctly.</p> <p>This issue was found in Release 8.2.</p> <p>Workaround: Cold-restart the packetVX.</p>
17304	<p>Description: Priority-tc-map queue does not work in a stacked pVX configuration.</p> <p>Workaround: None.</p>
17128	<p>Description: Alarms present on the system may be raised a second time with a different time stamp after an SCP restart.</p> <p>Workaround: None.</p>
17098	<p>Description: When an active module is removed from the 7200 shelf immediately following a CCM reset, it may take up to 30 seconds before the REPLUNITMISS (Circuit Pack Missing) alarm is reported by the system.</p> <p>Workaround: None.</p>

Issue	Description
17050	<p>Description: During an upgrade, a CCM load event may appear twice. This is not service affecting.</p> <p>Workaround: None.</p>
17025	<p>Description: During an upgrade, the secondary state of the amplifier object may not be reported. This is not service affecting.</p> <p>Workaround: None. The secondary state will appear correctly once the upgrade is completed.</p>
16989	<p>Description: There may be a short delay in the reporting of CONTCOM alarms for modules installed in the 7200 Main Shelf after removing a 7200 Main Shelf Common Communications Module (CCM).</p> <p>Workaround: None.</p>
16866	<p>Description: The Signal Degrade threshold alarm is not activated for SONET/ SDH protocols on the 10G Dual Transponder.</p> <p>Workaround: None.</p>
16695 16988 17132	<p>Description: Conditions that should be masked by alarms may appear as transient alarms following a Common Communications Module (CCM) restart or reconnection of an expansion shelf. This issue is not traffic affecting.</p> <p>Workaround: None.</p>
16647	<p>Description: Cold restarts on 8-Port Multiprotocol Muxponder may cause you to lose GCC IP connectivity.</p> <p>Workaround: None.</p>
16489	<p>Description: Setting the ME-NAME for a link on a LAG NNI may fail.</p> <p>Workaround: If the ME-NAME setting fails, remove the LAG NNI from the ERPS eservice, re-associate it and try setting it again.</p>
16284	<p>Description: Canceling a software upgrade from a pre-8.1 release to an 8.1 release will not properly complete.</p> <p>Workaround: Refer to the Upgrade Guide for the procedure to cancel a software upgrade, or to perform a software downgrade.</p>
16280	<p>Description: Downgrading from 8.1.1 to a pre-8.1 release fails.</p> <p>Workaround: Refer to the Upgrade Guide for the procedure to cancel a software upgrade, or to perform a software downgrade.</p> <p>Status: No fix planned.</p>
16251	<p>Description: When the STP role of a packetVX port is set to Disabled, the port continues forwarding traffic.</p> <p>Workaround: Leave the link in the spanning tree but disable forwarding of packets in the relevant VLANs by adding those VLANs to the Forbidden list on both sides of the link. As a result, the links can never become members of the VLANs in question and therefore traffic in those VLANs will never be forwarded over the link.</p>
16005	<p>Description: All alarms for an expansion shelf are not masked when the expansion shelf is placed out of service.</p>
15969	<p>Description: A warm reset of the CCM causes transient CONTCOM alarms on service modules in the same shelf as the CCM. This is not traffic affecting.</p>

Issue	Description
15963	Description: Removing the CCM from the main shelf results in CONTCOMM alarms for all the modules in the shelf. Workaround: insert the CCM back into the shelf.
15896, 16333	Description: During an upgrade/downgrade, a DSP Communications failure alarm may occur on the OLAM module. Workaround: After upgrading/downgrading, restart the OLAM module to clear the alarm.
15438	Description: If the Management VLAN IP address is changed on a system that is already configured for Management VLAN, the Management VLAN may no longer function properly. Workaround: Restart the SCP after the change is made.

3.2 Network element hardware limitations

The following table lists known BTI 7000 hardware limitations in this release.

Issue	Description	Affects
10514	<p>Description: 4G SFPs operate with reduced extinction ratio on packetVX modules.</p> <p>Workaround: The optical performance of the 4G SFPs (BP3AD2SS and BP3AD2MS) is not IEEE 802.3 compliant, but has proven to work in most applications. The packetVX modules should use BP3AD1SS (850nm) and BP3AM1MS (1310nm) SFPs.</p>	BT7A81AA BT7A81BA BT7A81CA

3.3 proNX™ 900 Node Controller

The following table lists known proNX 900 limitations in this release.

Issue	Description
23013	<p>Description: After a remote ODCC node loses and recovers communications, a ProNX 900 session may not recover when using the File > Re-establish Login menu to re-establish the session.</p> <p>Symptom: Within the Optical Groups navigation, the drop-down menus for all the modules are not functional.</p> <p>Workaround: Close and re-open the ProNX 900 session to recover all menu functionality.</p>
20658	<p>Description: When deleting an ERPS service, the GUI may pause for up to one minute and then return an "Entity does not exist" error dialog, and the ERPS service still appears in the list of services.</p> <p>The BTI 7000 system does exist and the service is deleted, but a network situation caused the status update to be delayed.</p> <p>Workaround: A refresh of the screen correctly updates the services list.</p>
19167	<p>Description: During a database restore, the COMMIT and CANCEL buttons on the proNX 900 are prematurely enabled and may trigger an error message.</p> <p>Workaround: Refresh proNX 900 to clear the error message.</p>
17800	<p>Description: The Commit button is greyed-out in the Upgrade window.</p> <p>Workaround: Exit the proNX 900 and restart it to commit the upgrade, or type the command into the Telnet window.</p>
17692	<p>Description: The proNX 900 does not respond to database delete events, manual refreshes are required.</p> <p>Workaround: To view updates after a database delete, refresh the proNX 900 to view the updates. In addition, if the TID has changed a new session is required.</p>

Issue	Description
16487	Description: Pre-8.2 releases of proNX 900 do not discover Eservices. Workaround: You must first upgrade proNX900 to the latest version before upgrading packetVX nodes from pre-8.2 releases to a higher release.
15942	Description: When saving or restoring a database backup on a system running Windows XP, the file browsing operation may become unresponsive. Workaround: On Windows XP systems, it is not recommended to save or restore database backups to directories containing ZIP files.
15321	Description: After a cold restart of 10G Transponder, the system raises the following error in proNX: "Error retrieving inventory for SLOT-X-X: Internal Application Error." Workaround: None.
13411	Description: In this release, it is not possible to filter layer 3 fields in policy maps. Workaround: None.
3459	Description: A user with 'maintenance' user privileges is not permitted, after disabling a loopback, to set the port to AINS on a Wavelength Translator, Wavelength Manager or Wavelength Regenerator module. Workaround: Use an account with the user privilege level of 'provisioning' or above to successfully disable a loopback and set the port to AINS.

4 Related Documentation

For more information on the BTI™ 7000 Series, refer to these publications:

- *Common Equipment Installation Guide*
- *Test and Turn-up Guide*
- *Quick Installation Notes*
- *Upgrade Guide*
- *Operations Solutions Guide*
- *Transponder Solutions Guide*
- *Muxponder Solutions Guide*
- *packetVX® Solutions Guide*
- *Optical Amplifier and DCM Solutions Guide*
- *Multiplexing Solutions Guide*
- *Alarm and Troubleshooting Guide*
- *SNMP Overview Guide*
- *TL1 Reference Guide*
- *BTI™ 7000 Series (including packetVX®) Command Line Interface Reference Guide*
- *Dynamic Optical Layer Engineering Guideline*

5 Appendix – Known limitations

This section lists existing BTI™ 7000 Series network element (NE) limitations found in Releases 7.3.1 and earlier.

Issue	Description
830	<p>Description: The MIB-II object snmp.snmpInASNParseErrs is not incremented correctly.</p> <p>Workaround: Ignore the value in this object.</p> <p>Status: No fix planned.</p>
1603	<p>Description: If an amplifier alarm is raised after a module is re-inserted, the threshold value may not be reported or it may be reported as 0.</p> <p>Workaround: Check the PM values for the amplifier. Use RTRV-PM-OA to check the monitored values and RTRV-OA to check the threshold value.</p> <p>Status: No fix planned.</p>
1723	<p>Description: An equipment mismatch (REPLUNITMEA) alarm raised on a Filler module will transition to the AINS (automatic in service) state after an SCP restart during an upgrade or a power cycle using the INIT-SYS command.</p> <p>Workaround: None.</p> <p>Status: No fix planned.</p>
1970	<p>Description: The system will return an incorrect error message if the command ACPT-DB-RST is entered repeatedly.</p> <p>Workaround: None.</p> <p>Status: No fix planned.</p>
2273	<p>Description: In some instances, after performing an MSI module replacement, the Systems Communications Failure (SYSCOM) alarm may not clear.</p> <p>Workaround: In this case, to clear the SYSCOM alarm, restart the SCP on the system. If this does not clear the alarm, replace the MSI module again and restart the SCP.</p> <p>Status: No fix planned.</p>
2295	<p>Description: When an amplifier module is out-of-service, it may accept incorrect AIDs when retrieving PMs (RTRV-PM-OA).</p> <p>Workaround: None.</p> <p>Status: No fix planned.</p>
2365	<p>Description: DWDM SFPs (BP1AM1DE) report inaccurate output power when the laser status is off and FPSD is enabled.</p> <p>Workaround: None.</p> <p>Status: No fix planned.</p>
3154	<p>Description: If you restore a database when the XCVR ports are in AINS state, after invoke the state is shown as IS, but, it should be IS, AINS.</p> <p>Workaround: Accept or cancel the database restore.</p>

Issue	Description
3566	<p>Description: The output of the RTRV-HLP-ENUM command for the montype and tmper parameters is inconsistent. In some cases an underscore instead of a hyphen ("-") is used. The montype parameters affected are: RS_BBE RS_EB RS_ES RS_OFS RS_SES SEFS_S SES SESS UALL</p> <p>Workaround: None.</p> <p>Status: No fix planned.</p>
4308	<p>Description: The module missing (REPLUNITMISS) alarm is not raised when an expansion shelf with an empty slot is connected to the main shelf.</p> <p>Workaround: If you plug in a filler pack and remove it, the alarm is raised.</p> <p>Status: No fix planned.</p>
4468	<p>Description: When using the RTRV-OA command in TL1, the reported value returned for the OBR-HTS parameter is incorrect.</p> <p>Workaround: None.</p> <p>Status: No fix planned.</p>
4865	<p>Description: When provisioning a 10G TPR/Dual 10G TPR module, the XCVRs do not pick up the system level AUTOP parameter.</p> <p>Workaround: Manually set the XCVR to the desired service state.</p> <p>Status: No fix planned.</p>
4898	<p>Description: GCC does not support PMs.</p> <p>Workaround: None.</p> <p>Status: Under review.</p>
5360	<p>Description: The TL1 command ED-OSPF does not support changing the AREAID parameter.</p> <p>Workaround: De-provision the OSPF interface and re-provision it with the new AREAID.</p> <p>Status: No fix planned.</p>
7685	<p>Description: The following DCM with the part number, BP1A10AA-UC, cannot be provisioned as an SMF40 device.</p> <p>Workaround: None.</p> <p>Status: No fix planned.</p>
8103	<p>Description: The CLI shows SFP parameters which are not applicable for RJ45 ports.</p> <p>Workaround: Do not attempt to configure SFP parameters for an RJ45 port.</p> <p>Status: Target release is 9.2 CA.</p>
8219	<p>Description: STP port cannot be enabled on CEP port after being disabled.</p> <p>Workaround: Delete the port and re-provision it.</p> <p>Status: Under review.</p>

Issue	Description
8302	<p>Description: A warm restart of a Dual 10G Transponder running 7.1.1 software or a software upgrade of Dual 10G Transponder from 7.1.1 software may result in a traffic interruption.</p> <p>Workaround: Refer to Technical Information Bulletin BTI-TIB006 available on BTI's support portal at www.btisystems.com/support.</p> <p>Status: No fix planned.</p>
8399, 10010 and 10180	<p>Description: After a database restore, traffic may be affected on some modules.</p> <p>Workaround: After a database restore, restart all active modules in the system including Muxponder, transponder, packetVX and SCP modules.</p> <p>Status: No fix planned.</p>
9292/9522	<p>Description: It is not possible to apply an Egress LAG Bandwidth Profile to a LAG on packetVX. Ingress Bandwidth Profiles on a LAG are supported.</p> <p>Workaround: None.</p> <p>Status: No fix planned.</p>
9538	<p>Description: S-VLAN matching is not supported for class-mapping on packetVX.</p> <p>Workaround: None.</p> <p>Status: No fix planned.</p>
9937	<p>Description: The following three restrictions apply to packetVX eServices as of release 7.2:</p> <ul style="list-style-type: none"> • Up to 768 virtual eServices per network element and 4090 EVCs per network, provided RSTP is disabled on UNI's supporting virtual services. • Up to 200 virtual eServices per network element and 1000 EVCs per network if RSTP is enabled on UNI's supporting virtual services. • Up to 500 dynamically signaled EVCs per network element. All other EVCs must be configured statically. <p>Status: No fix planned.</p>
9963	<p>Description: Source addresses corresponding to GVRP control frames are not displayed in the Dynamic MAC address table.</p> <p>Workaround: None.</p> <p>Status: No fix planned.</p>
9969	<p>Description: The count of Coding Violations (CVs) for 4G DTPR may be inaccurate when monitoring Fiber Channel protocols.</p> <p>Workaround: None.</p> <p>Status: No fix planned.</p>
9986	<p>Description: In this release, it is not possible to convert a Switch Port from type "Customer Edge Port" to "Provider Network Port." Attempting to do so will result in an error of "Internal System Fault." This is error does not indicate a problem with the system, only with the operation attempted.</p> <p>Workaround: Instead of attempting to convert the type of the Switch Port, delete the Switch Port and re-create it.</p> <p>Status: No fix planned.</p>

Issue	Description
10009	<p>Description: Changing the frame size on a UNI LAG does not appear to change the frame size if the UNI has no services associated with it. The system correctly updates the frame size internally for the UNI, but the display is not correct.</p> <p>Workaround: If you associate an EService with the UNI, then the system will display correct frame sizes.</p> <p>Status: No fix planned.</p>
10295	<p>Description: Changing OSPF interface priority setting does not take effect. The system behaves as if the priority is 1." This affects the Management Communications Channel.</p> <p>Workaround: None.</p> <p>Status: Under review.</p>
10480	<p>Description: When the packetVX receives over-sized packets, it will both count the packet in the bytes received count as well as counting the packet as an FCS error.</p> <p>Workaround: None.</p> <p>Status: No fix planned.</p>
12508	<p>Description: A class-map configured to match on C-VLAN will not match traffic that transits from one UNI to another UNI on the same packetVX module. This restriction does not apply for traffic from a UNI to an NNI on the same packetVX module.</p> <p>Workaround: None.</p> <p>Status: No fix planned.</p>
12732	<p>Description: The Muxponder modules do not raise a loss of sync alarm when a Gigabit Ethernet signal is connected to a port provisioned for 100FX.</p> <p>Workaround: None.</p> <p>Status: No fix planned.</p>
13198	<p>Description: Adding an IP address to an OSC port prevents connectivity from a different IP subnet after an NE reset.</p> <p>Workaround: Log on from another system that is on the same subnet as the NMS port.</p> <p>Status: No fix planned.</p>
13574	<p>Description: The packetVX CLI retrieves alarm details on packetVX alarms only. Alarms specific to non-packetVX modules are not reported by the CLI.</p> <p>Workaround: To retrieve non-packetVX alarms, use TL1, SNMP or proNX 900.</p> <p>Status: Under review.</p>
13621 and 13952	<p>Description: The ERPS switching time for GE Copper SFP ports and GE RJ-45 ports exceeds 50ms.</p> <p>Workaround: None.</p> <p>Status: Under review.</p>
14067	<p>Description: 10G packetVX ports may not report oversized frames in the performance monitoring statistics.</p> <p>Status: No fix planned.</p>

Issue	Description
14222	<p>Description: Disabling and re-enabling MSTP while ERPS is running will result in a loop.</p> <p>Workaround: Do not perform this procedure.</p> <p>Status: No fix planned.</p>
14335	<p>Description: After a port, in manual protection switch mode, is unblocked by Signal Fail condition, the ERPS Service does not automatically report normal protection switch mode.</p> <p>Workaround: To report a normal protection switch mode, the user has to disable manual protection switching, using the CLI.</p> <p>Status: Under review.</p>
14400	<p>Description: ERPS rings that have their hold-off timer set above the default value of 0 ms, will not recover within 50 ms.</p> <p>Workaround: None.</p> <p>Status: Target release is 9.3</p>
14445	<p>Description: The output for the "show sp mst" command is displaying UNIs. The UNIs should not appear in the output.</p> <p>Workaround: None.</p> <p>Status: No fix planned.</p>
14499	<p>Description: The spanning tree cost for UNI LAGs defaults to a random value.</p> <p>Workaround: Use the following commands to set the spanning tree priority to a number more in line with your network:</p> <pre data-bbox="574 1037 902 1129">switchport lag <number> spanning-tree 0 cost <new-cost></pre> <p>Status: Under review.</p>
15058	<p>Description: After upgrading a packetVX module from release 7.2.1 to 7.3.1, an XFP Mismatch alarm may occur for DWDM XFPs.</p> <p>Workaround: Modifying the provisioned wavelength of the XFP resolves the alarm.</p> <p>Status: Target release is 8.2 CA.</p>
15170	<p>Description: MIPs are not auto-deleted when a VLAN is removed from the packetVX.</p> <p>Workaround: Enable MIP auto-creation, recreate the VLAN, recreate the NNI, and then remove the NNI.</p> <p>Status: Under review.</p>
15283	<p>Description: When running ERPS (G.8032), all eServices must have the spanning-tree instance set to the CIST (0). Failure to do so results in traffic being discarded at the ingress NNI.</p> <p>Workaround: Set the spanning-tree instance to the CIST to zero, using the following commands:</p> <pre data-bbox="505 1703 1008 1835">BTI7000:sw1(config)# eser EVPLINE BTI7000:sw1(config-eservice)# spanning-tree 0 BTI7000:sw1(config-eservice)# ex BTI7000:sw1(config)#</pre>

6 Appendix – Upgrade Considerations

This section explains how to work around various issues that may arise after upgrading from BTI software Releases 8.x or 9.x to Releases 10.3.x and later.

For more information about the CLI commands used in these procedures, refer to the *BTI 7000 Series Command Line Reference Guide*.

Storm Control values out of range after upgrade

Issue

Releases prior to 9.2 do not support Storm Control. After upgrading from a release prior to 9.2, the Storm Control values may be corrupt, and the system prevents you from shutting down NNI interfaces, for example:

```
BTI7000:sw1(config-nni TenGigE 11/~)# shutdown

% Storm Control rate limit specified is out of range,
allowed 0 through 100
```

Workaround

To clear this condition, you must use SNMP to build an SNMP set request that sets all three storm control values as a single PDU. Valid storm control values are: 100%, 60%, 40%, and 20%. Note that 100% means that Storm Control protection is not configured.

Note: All three storm control attributes must be set automatically, otherwise, the set fails.

The following example shows an SNMP set request using the value 20%:

```
snmpset -v 2c -c private <IP address>
pvxL2IntfBcastLimit.1.1.3.xGigE.1 i 20
pvxL2IntfMcastLimit.1.1.3.xGigE.1 i 20
pvxL2IntfDlfLimit.1.1.3.xGigE.1 i 20

BTI-7000-MIB::pvxL2IntfBcastLimit.1.1.3.xGigE.1 = INTEGER: 20
BTI-7000-MIB::pvxL2IntfMcastLimit.1.1.3.xGigE.1 = INTEGER: 20
BTI-7000-MIB::pvxL2IntfDlfLimit.1.1.3.xGigE.1 = INTEGER: 20

<user id>-lx2:~/erpsv2/OLS-ERPSV2-N2$
```

Stacked packetVX environment

Issue

Upgrading causes corruption in the data structure. Although traffic is not affected, you may observe undesired system behavior.

Workaround

Perform a cold reboot on each stacked packetVX module simultaneously, to allow the system to re-initialize its state and return to normal behavior. Follow this procedure:

1. Enter Privileged EXEC mode.
2. For each packetVX, type the command: **reload <shelf/slot> cold**, for example:

```
BTI7000:sw1(config)# reload <shelf/slot> cold
```

```
BTI7000:sw1(config)# reload <shelf/slot> cold
```

This procedure is a one-time event for upgrades from releases prior to 9.2.

After the system is upgraded to Release 10.3.x or later, the data structure remains clear of further corruption during subsequent upgrades. Simultaneous cold reboot is not expected.

ERPS in a Stacked or Non-stacked packetVX environment

Issue

When upgrading a network running G.8032-V1, multiple ports may be blocked on the ring isolating a node (Known issue: 26011).

Workaround

Before you upgrade, remove ERPS V1. After the upgrade, migrate to ERPS V2, which involves re-provisioning the ERPS services. Follow this procedure:

1. To prevent loops, manually block all RPLs using the command **admin-state disable**, or **shutdown**.
2. On each ring, one at a time: Delete the ERPS service across all the nodes of the particular ring.
3. Delete one ring at a time.
4. Re-provision ERPS across all the nodes of the particular ring. By default, the new ERPS service uses ERPS V2.
5. Enable the blocked RPLs.
6. Go to the next ring and repeat this procedure.

Issue

In ERPS v1, when upgrading from Releases 8.x or 9.x to 10.3.x or later, MSTP NNIs adjacent to the ERPS rings may lose their VLAN membership on some eServices.

If this happens you must toggle the administrative state down and up on the MSTP node.

Workaround

To avoid this from occurring, you must first upgrade each ERPS node, before upgrading all other nodes.

LAG MEP IDs Change after the Upgrade

Issue

In Releases prior to 10.x, the MEP ID for a UNI LAG is based on the MAC address of the first member of the LAG. Beginning with Release 10.x, the MEP ID is based on the MAC address of the LAG.

This is a service affecting issue. After the upgrade the operational state of the system is down, since there is no translation to accommodate the different MEP ID rules.

Workaround

To resolve this issue follow this procedure. You must repeat these steps for every service that has a LAG UNI as a remote MEP ID and is part of the upgrade:

1. Go to the eService configuration for the DOWN eService—the end with the LAG as a Remote MEP, not Local MEP:

```
BTI7000:sw1(config)# eservice <service-name> [type  
<service-type>]
```

2. Display the existing eService configuration, and take note of the old and new LAG MEP IDs, and the SLA Initiator (if there is one) :

```
BTI7000:sw1(config)# show eservice [<service-name>] [name  
<service-name>]
```

3. Go to the service UNI on the eService:

```
BTI7000:sw1(config-eservice)# uni<interface-type>  
<interface-id>
```

4. If an SLA Initiator/Responder exists, you must delete it before you continue with the next step:

```
BTI7000:sw1(config-uni-eservice)# no sla rmep <mep id>  
loss initiator
```

5. Relearn all the remote MEP IDs on the service UNI:

```
BTI7000:sw1 (config-uni-eservice)# cfm flush-rmep-db
```

6. Add the new SLA Initiator/Responder

```
BTI7000:sw1(config-uni-eservice)# sla rmep <mep id> loss  
init
```

7. Repeat these steps for every service with a LAG UNI as a remote MEP ID.