proNX Service Manager

Release 7.0.1, Build 23324

STANDARD

Release Notes

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Document Identification

Juniper Networks proNX Service Manager Release 7.0.1 Release Notes Rev. 01

Abstract

This document provides information related to the current release.

Publication History

Revision	Date	Changes
01	August 2016	Baseline

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1. Introduction

1.1 Purpose

This document lists the new Juniper Networks proNX Service Manager (PSM) software features, known software issues, and fixed software issues in release 7.0 and release 7.0.1.

1.2 New Features

The following features have been introduced in the 7.0 release. More details are available in the *proNX Service Manager User Guide*, the *proNX Dashboard User Guide*, and the *proNX Service Manager Installation and Administration Guide*.

- Support for BTI7800 network elements running release 2.1.1
  - Discovery and display of split ROADM nodes
  - End-to-end optical service activation of alien wavelength services
    - Alien to/from alien
    - UFM to/from alien

- PSM client features
  - Rebranded for Juniper Networks
  - Re-introduction of the Shelf view
    - BTI7800 network elements
    - BTI7000 network elements
    - BTI800 network elements
    - BTI700 network elements
  - Ability to configure severities for PSM-generated alarms

- proNX Dashboard features
  - Network element discovery/undiscovery
  - Network element tables
  - Updated inventory tables
  - Service visualization for BTI7800 optical services
  - Updated service views
  - Tasks table

1.3 Upgrade Paths

proNX Service Manager server software release 7.0.1 is supported on Red Hat (CentOS) Linux RHEL 6 (6.3 or later), and on Red Hat (CentOS) Linux RHEL 7 (7.1 or later).

- If your server is running one of the above RHEL releases, you do not need to upgrade the OS.
- If your server is not running one of the above RHEL releases, you must upgrade the OS to one of the supported RHEL releases before you can upgrade the PSM server software to release 7.0.1.

You can upgrade the PSM server and PSM client to release 7.0.1 from releases 5.x, 6.0, 6.1, 6.2, 6.3, and 7.0. See *Section 1.4 Upgrade Considerations* for additional upgrade information.

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For information on how to upgrade to the latest release, see the *proNX Service Manager Installation and Administration Guide*.

1.4 Upgrade Considerations

The following contains important information regarding upgrading to this release:

- Before upgrading the OS on the server machine, ensure the SATA mode in the BIOS is set to support AHCI instead of legacy. For some BIOSs, this may be called "Enable SATA AHCI Support".
- It is recommended that you upgrade all client workstations to the latest Java 8 release before you install the proNX SM client software.
- Before enabling historical PM collection, ensure you have sufficient disk space on your server. For more information, see the *proNX Service Manager Installation and Administration Guide*.
- The PSM clients must be upgraded to align with the PSM server version. The new client can be downloaded from the following location on the PSM server using HTTPS:

  `https://<psm-server-ip>:9998/client`

  When you connect to the server with your browser for the first time, you may receive a warning about the server's certificate. This is normal. The signed certificate is for btisystems.com, which is different from the PSM server's domain name. Your browser is simply warning you of this mismatch. Add the exception and continue to the site.

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1.5 Supported devices

The following table lists the BTI Series devices supported by this release of the proNX Service Manager.

Device type	Supported version(s)
BTI7000	6.2.0, 7.2.0, 7.2.1, 7.3.0, 7.3.1, 7.3.2, 7.3.3, 7.3.4, 7.4.1, 7.4.2, 8.1.0, 8.1.1, 8.1.2, 8.1.3, 8.2.0, 8.2.1, 8.2.2, 9.1.0, 9.2.0, 9.3.0, 10.1.0, 8.1.x, 8.2.x, 9.1.x, 9.2.x, 9.3.x, 10.1.x, 10.2.x, 10.3.x, 10.4.x, 11.1, 11.2, 11.2.x, 11.3.x, 12.1.x, 12.2.x, 13.1.x, 13.2
BTI702	1.2, 1.2.1, 1.2.2,1.4, 1.4.x, 1.5, 1.5.x
BTI704	1.2, 1.2.1, 1.2.2,1.4, 1.4.x, 1.5, 1.5.x
BTI712	1.2, 1.2.1, 1.2.2,1.4, 1.4.x, 1.5, 1.5.x
BTI718	1.4, 1.4.x, 1.5, 1.5.x
BTI718E	2.0, 2.1, 2.2, 2.3, 2.4
BTI7800	1.3, 1.4, 1.5, 1.6, 1.7, 2.0, 2.1, 2.1.x
BTI805	1.1, 1.1.1, 1.1.2, 1.2, 1.2.x, 2.1.1, 2.2.1
BTI810	1.0.x, 1.1, 1.2, 1.2.1, 1.2.2, 1.2.x
BTI821	1.1, 1.1.1, 1.1.2, 1.2, 1.2.x, 2.1.1, 2.2.1
BTI822	1.1, 1.1.1, 1.1.2, 1.2, 1.2.x, 2.1.1, 2.2.1

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2 Resolved Issues

The following issues have been resolved cumulatively in releases 7.0 and 7.0.1:

Issue Numbers	Description
20985	**Description:** If a PC that is running a PSM client application changes its IP address after the PSM client has been started, then the PSM client will not receive notifications from the PSM server even though the PSM client application shows that it is connected. Examples of when the PC IP address is changed include moving between fixed and wireless networks, and connecting and disconnecting from a VPN.
41666	**Description:** The Shelf view (**Node>View**) has been temporarily disabled.
41898	**Description:** When entering text strings in various BTI7800 nodal configuration dialogs, the following characters in the text string may cause the configuration task to fail: `&, <, >, [, ], “, ”, ‘, ’`
41973	**Description:** Historical PMs are sometimes not displayed in the Historical PMs tree (**View>Historical PMs**).
43140	**Description:** When upgrading to release 7.0, database schema errors can prevent the PSM server from starting successfully. This problem typically occurs when the database contains nested NE groups.
43211	**Description:** If during startup, PSM fails to discover the full network in the time allotted for the task (30 mins), the discovery task will be marked for retry. In very large and slow networks, it is likely these retries will also time out, causing PSM to repeatedly retry the discovery, which leads to degraded performance. This problem is only noticeable in large networks with slow discovery times.

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3 Known Issues

The following are known issues in this release:

Issue Numbers	Description
43312	**Description:** The procedure to reinitialize the PSM server database in section 3.17 of the *proNX Service Manager Installation and Administration Guide* is incorrect. The correct procedure is as follows: 1) `psm-stop` 2) `emsdropdb.sh -a` 3) `rpm -e ems9001` 4) Reinstall the PSM server.
38776	**Description:** When using PSM to upgrade software on a BTI7800 NE, PSM may incorrectly report that the upgrade has failed. **Workaround:** If this occurs, use the CLI on the NE to verify if the upgrade was successful.

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4 Known Limitations

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

Issue Numbers	Description
16561	**Description:** A profile created directly on a BTI700 device using the CLI or proNX900 cannot be applied to additional ports on the node or other nodes using the proNX Service Manager. **Workaround:** None
22479	**Description:** After a software upgrade or a database restore on an NE, the PSM topology map view may not show the correct link state (or color) for transponder and muxponder connections on the upgraded or restored NE**.** **Workaround:** After a software upgrade or a database restore, resynchronize with the network or rediscover that NE to ensure the link state and color are reported correctly.
22743	**Description:** The BTI700 Series NE does not send the traps that are required by PSM to maintain accurate information about any Y.1731 parameters provisioned on the NE, causing PSM to become out of synchronization with the NE. This occurs regardless of whether Y.1731 is configured with PSM or the CLI. **Workaround:** After configuring Y.1731 with PSM or the CLI, manually rediscover the NE in PSM to synchronize PSM's database.
22755	**Description:** When PSM performs a software upgrade on an NE over a slow network connection, communication between PSM and the NE may time out as the NE is rebooting, leaving the NE in an undiscovered or unreachable state. **Workaround:** If the NE is in an undiscovered state after an upgrade, perform a manual rediscover of that NE. If the NE is in an unreachable state, perform a manual refresh.

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Issue Numbers	Description
22783	**Description:** If the public SNMP community string is being used by PSM to communicate with a BTI7000 Series NE and it is deleted on the NE, then PSM may mistakenly recognize that NE to be a generic MIB II device, even after a rediscovery of that NE. **Workaround:** Perform an initial discovery of that NE using **Tools>Network Element Discovery** and specify the IP address and the new SNMP community string, or re-add the public community string to the NE.
23249	**Description:** When activating an Ethernet service, the BTI700 Series NE does not always send the traps that are required by PSM to generate the new service view. This occurs regardless of whether you are using PSM or the CLI to configure the service. **Workaround:** After activating an Ethernet service on a BTI700 Series NE, manually rediscover the NE in PSM to synchronize PSM's database.
24329	**Description:** Using PSM to create, modify, or delete multiple Ethernet services on the BTI810 within a short period (less than ~5 seconds) is not supported. **Workaround:** When using PSM to delete an Ethernet service or to "auto-provision CFM" on the BTI810, wait for the task to complete before proceeding.
29905	**Description:** When running the BTI810 with an NNI LAG, PSM may not update the topology display when members of the LAG are modified on one end but not on the other. **Workaround:** Rediscover the BTI810 network element.
30412	**Description:** For historical DOL Wavelength Channel PMs, the BTI7000 Series network element occasionally stores data for certain PM points in the wrong bin. This affects the validity of the PM display for these PM points on the PSM client. **Workaround:** None.
30765	**Description:** When issuing a forced protection switch on an BTI810 network element in a configuration with ERPS rings, PSM may not display the new ERPS state on the BTI810 network elements. **Workaround:** Rediscover the BTI810 network elements after issuing the protection switch.

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Issue Numbers	Description
32439	**Description:** In the proNX Dashboard, when using the filtering capability in the historical Alarms table or the historical Events table to search based on time, the PSM Dashboard interprets the entered time as the PSM server time, not the local user time. Seemingly incorrect results can be returned when the local user time is in a different time zone from the PSM server. **Workaround:** When filtering based on time, convert the desired time to the PSM server time before making the request. This applies to the historical Alarms table and the historical Events table only.
35917 36198	**Description:** Remote MEPs cannot be created on BTI805/821/822 UNI LAG ports when the LAG port is down. **Workaround:** None.
36874	**Description:** When displaying an existing Ethernet service (double-click service in Network tree), the name of the bandwidth profile shown in PSM may not match the name of the bandwidth profile on the NE itself. This problem only applies to a BTI805/821/822 network element running a software release earlier than release 2.1.1 Build 15. **Workaround:** None.
39953	**Description:** When using Safari as the web browser to connect to the proNX Dashboard, the connection is refused even if you accept the security certificate. **Workaround:** When using Safari, instead of immediately accepting the certificate, select **Show Certificate** and then set to **Always Trust**.
40519	**Description:** If you create a LAG UNI as part of activating a service on a BTI810 network element, the LAG members appear as individual UNIs when you view the service after it has been activated. **Workaround:** Rediscover the BTI810 network element.

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5 Related Documentation

For more information on the proNX Service Manager, refer to these publications:

proNX Service Manager Installation and Administration Guide
proNX Service Manager User Guide
proNX Dashboard User Guide

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