



*Release Notes*  
*Plexxi Switch and Control*  
*Release 3.2.2*  
*September 20, 2017*



100 Innovative Way- Suite 3322  
Nashua, NH 03062  
Tel. +1.888.630.PLEX (7539)  
[www.plexxi.com](http://www.plexxi.com)



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Plexxi, Inc.  
100 Innovative Way - Suite 3322  
Nashua, NH 03062  
Tel: +1.888.630.PLEX (7539)  
[www.plexxi.com](http://www.plexxi.com)

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## Introduction

This document contains information about the Plexxi 3.2.2 release, which delivers software updates for Plexxi Switch and Plexxi Control.

## Software Versions Included

The following versions of software updates are included:

- Plexxi Switch 3.2.2
- Plexxi Control 3.2.2

## Supported Hardware

Plexxi release 3.2.2 is supported on the following Plexxi switches:

- Switch 1x (PX-S1X)
- Switch 2 (PX-S2)
- Switch 2s (PX-S2S)
- Switch 2p (PX-S2P)
- Switch 2sp (PX-S2SP)
- Switch 2e (PX-S2E)
- Switch 3eq (PX-S3EQ)

## New in this Release

New features:

- Plexxi Control installation improvements.
- New Log Collection Tool: px-log-bundle
- Updated Plexxi Setup Tool: px-setup
- New Plexxi Control Database Tool: px-db-tool

## Related Documentation

The following additional documentation supports this release:

- *Plexxi Compatibility Matrix, Version 8* or greater. The *Plexxi Compatibility Matrix* contains version-specific software and hardware support information as well as cable and transceiver support information.
- *Plexxi Control Installation, Upgrade and Administration Guide, Release 3.2.2*
- *Plexxi Switch Administrator Guide using Linux and Plexxi CLI, Release 3.2.2*
- *Plexxi Control Online Help* is available while logged into the Plexxi Control UI

Except for the online help, this documentation is available on the Plexxi Resources > Technical Documentation page:

<http://www.plexxi.com/technical-documentation/>



## Contacting Plexxi Support

Plexxi Technical Support services are available to answer your questions and to make sure that your software and hardware continue to operate properly.

You can contact Plexxi Support at:

[support@plexxi.com](mailto:support@plexxi.com)

1.888.415.9809 (US/Canada toll-free)

+1 603-782-0702 (US/International)

<http://support.plexxi.com>

## Plexxi Control Installation Improvements

The Plexxi Control OVA installation has been aligned with the Plexxi Connect OVA installation, and the following features have been added:

- NTP server configuration.
- Support for VLANs.
- A separate check box to enable DHCP.

Refer to the following document:

- *Plexxi Control Installation, Upgrade and Administration Guide, Release 3.2.2*

## New Log Collection Tool: px-log-bundle

The `px-log-bundle` tool is a new Plexxi tool that you run on each Plexxi switch at a Linux Bash prompt to collect switch log bundles.

For complete information on the `px-log-bundle` tool, refer to the following document:

- *Plexxi Switch Administrator Guide using Linux and Plexxi CLI, Release 3.2.2*

## Updated Plexxi Setup Tool: px-setup

`px-setup` is a Plexxi utility that simplifies Plexxi switch setup by eliminating the need to edit configuration files and restart services on the Plexxi Switch. `px-setup` is run on each Plexxi switch at a Linux Bash prompt.

In the Switch-Control 3.2.2 release, the following optional arguments have been added to the syntax:

<code>px-setup-snmp</code>	Configure SNMP for each switch being configured.
<code>px-setup-portsup</code>	Configure switch ports locally. There is a static speed and auto speed mode. <b>Note:</b> This is utilized in environments where the Plexxi Network is a prerequisite part of the infrastructure. Network environments: <ul style="list-style-type: none"> <li>• Inband Controller: The Controller VM instance is instantiated on a hypervisor utilizing the Plexxi Fabric as its network resource.</li> <li>• Inband Management: Management network access for the switches is carried over a Plexxi Access port.</li> </ul>

Also, the tool execution modes (wizard vs manual) are defined and the following manual procedure is provided:

### Manual Mode Procedure

If you use the manual mode (not the wizard), proceed as follows:

1. At the Linux prompt on a Plexxi switch, execute `px-setup`.
2. Select “a”. Follow the prompts and enter the appropriate data at each prompt as needed.
3. When the “a” round completes, you are prompted to save the data. Select “b”. This copies the data to all target switches (thereby creating a backup) and applies the configuration on the switches.



4. You may need to create a Plexxi Control VM at this point (especially in an Inband Controller scenario).

**IMPORTANT: Verify that the Plexxi Control VM is up and running, BUT configure nothing until reconciliation is run!!**

5. Re-start px-setup if it was terminated.
6. In the px-setup utility select “c” to reconcile the configuration with the controller.
7. Check the results. Confirm that the controller configuration matches the expected configuration, that the ports are up and active, and that all port configurations match the expected configurations, and that the Controller knows the configured hostnames as they were set during px-setup.

For complete information on the `px-setup` tool, refer to the following document:

- *Plexxi Switch Administrator Guide using Linux and Plexxi CLI, Release 3.2.2*

## New Plexxi Control Database Tool: `px-db-tool`

The new `px-db-tool` utility which is run from the Plexxi Control Bash environment, can be used to perform manual database backups, database restorations, database size checks, and manual database maintenance such as reindex and vacuum. This is a Plexxi Control tool, not a switch tool.

For complete information on the `px-db-tool` tool, refer to the following document:

- *Plexxi Switch Administrator Guide using Linux and Plexxi CLI, Release 3.2.2*

## Issues Fixed in this Release

Issue ID	Description
PXCTL-3277	If Plexxi Connect is or has ever been connected to Plexxi Control then nightly database maintenance routines would fail.
PXCTL-3336	A rare race condition after a topology update would result in mismatched switch state in control.
PXCTL-3352	Under certain conditions it was possible for two concurrent database jobs to result in a deadlock
PXCTL-3392	When installing Plexxi Control from an OVA, the domain name would be rejected if it was a top level domain.
PXPF-1436	On a Switch 3EQ, port 129 would incorrectly report admin/link/oper up when physically disconnected.
PXPF-1461	When a Switch 2E or 3EQ is installed via ONIE and a static IP or DHCP is used and no hostname is provided the installer incorrectly sets the hostname to 'onie-host', instead of the default expected 'plexxi'.
PXSW-2946	Fabric Link Encapsulation (FLE) is not supported in release 3.2.0.
PSXW-3099	In a Nutanix environment a change with the CVM VIP would result in bad arp entries.
PXSW-3113	When changing a switch hostname via 'px-setup', LLDP would need to be restarted manually.
PXSW-3196	If a pre-existing LAG is converted to a MLAG, the P2 tables can get out of sync with respects to attachments on the MLAG.



## Known Issues in this Release

Issue ID	Description
	Multicast traffic over an MLAG is not supported.
PXCTL-3269	Control reports 'WARNING' when a switch disconnects. This should be reported as an 'ALERT'.
PXCTL-3278	If the nightly database backup or maintenance jobs fail, the failure is not reported to the user in Plexxi Control or syslog.
PXSW-1216	Before increasing the size of the confluent ring using the Plexxi Switch CLI, you must remove any configuration from the ports to be added to the confluent ring LAG. This configuration includes L1 Replication, Fabric Link Encapsulation and User Defined Paths.
PXSW-2162	In a Flow Entry created in Plexxi Control that uses the Path action, the Flow Entry might match a flow that does not originate on the source switch defined in the user-defined path.
PXSW-2165	<p>An issue exists where:</p> <p>If the following User Defined Path conditions exist:</p> <ul style="list-style-type: none"><li>• the path uses confluent ring ports</li><li>• the last switch in the path (egress switch) is the Ubervisor switch</li></ul> <p>And if a Flow Entry has the following characteristics:</p> <ul style="list-style-type: none"><li>• Path action is selected</li><li>• The user defined path stated above is selected</li><li>• The egress ports on the Ubervisor egress switch (last switch in path) are not selected</li></ul> <p>Broadcast, unknown unicast, and unknown multicast traffic will not be forwarded. Known unicast and known multicast traffic is forwarded as expected.</p> <p>To solve this issue, if the Ubervisor switch is egress switch for a User Defined Path that uses the confluent ring, in Plexxi Control when configuring the Flow Entry, explicitly select the egress ports on the egress (Ubervisor) switch.</p> <p>If the last switch in the path is not an Ubervisor switch, traffic flows as expected.</p>
PXSW-2440	<p>The following MC traffic issue exists when increasing the confluent ring size:</p> <p>An access port that was part of an MC group prior to increasing the confluent ring size is removed from the group after the confluent ring size is increased.</p>

Issue ID	Description
PXS-2443	<p>The following MC traffic issue exists:</p> <p>When an MC receiver host moves, MC traffic still gets delivered to the port it was attached to previously until the IGMP JOIN on that port times out.</p>
PXS-2501	<p>The following issue exists:</p> <p>When a switch that is on the In-Band Management LAG is rebooted, the LACP configuration is not restored on the In-Band Management LAG.</p>