



*Plexxi Release Notes
Plexxi Switch and Control Release 3.1.1*

May 31, 2017



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Introduction

This document contains information about the Plexxi 3.1.1 release, which delivers software updates for Plexxi Switch and Plexxi Control.

Software Versions Included

The following versions of software updates are included:

- Plexxi Switch 3.1.1
- Plexxi Control 3.1.1

Supported Hardware

Plexxi release 3.1.1 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 OVA VM deployment/installation.
- Plexxi switch setup utility: px-setup



Related Documentation

The following additional documentation supports this release.

- *Plexxi Compatibility Matrix, Version 6 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 3.1.1*
- *Plexxi Switch Administrator Guide using Linux and Plexxi CLI, Release 3.1.1*
- *Plexxi Control Online Help* is available while logged into the Plexxi Control UI

Except for the online help, this documentation is available on the Resources > Technical Publications page of <http://www.plexxi.com>.

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

1.888.415.9809 (US/Canada toll-free)

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

www.plexxi.com/support

Plexxi Control: OVA VM Deployment/Installation

In addition to installing Plexxi Control using an ISO installer, you can now, as of release 3.1.1, install Plexxi Control on a VM using an OVA installer in VMware.

The following document is updated to include OVA Install:

- *Plexxi Control Installation, Upgrade and Administration Guide, Release 3.1.1*

Plexxi Switch Setup Utility: 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. The utility queries administrators for information, then configures the IP or hostname of the Plexxi Control software, time zone, network address, default gateway, SNMP management, and several network services, including NTP and DNS.

`px-setup` is used to perform initial switch setup, including:

- setup all switches and all network characteristics for a new install
- setup a new Plexxi switch added to an existing Plexxi fabric
- configure a specific parameter in an existing Plexxi fabric

The utility is run on the Plexxi switch from a console.

The following document is updated to include the `px-setup` description and revises the Initial Setup procedure to use `px-setup`:

- *Plexxi Switch Administrator Guide using Linux and Plexxi CLI, Release 3.1.1*



Issues Fixed in this Release

Issue ID	Description
	Fixed multiple issues around MAC attachment visualization in the Plexxi Control UI.
PXCTL-2870	Fixed an issue in Plexxi Control where, after a change in the interface between a Plexxi switch and a VM, the network link was not updated.
PXCTL-2885	Fixed an issue in a Switch where, if the port mode (1x40, 4x10, etc) of a QSFP port is changed, a LAG cannot be removed.
PXCTL-2892	Fixed an issue where you cannot authenticate using HTTPS with either LDAP or Active Directory (AD).
PXCTL-2959	Fixed an issue where error handling due to an unstable network caused several clients to lose connection to Plexxi Control and one client was deadlocked and unable to recover.
PXSW-2534	Fixed an issue where rebooting a switch connected to a Nutanix node loses connectivity to the VMs in the node or to the entire node.

Known Issues in this Release

Issue ID	Description
	Multicast traffic over an MLAG is not supported.
PXSW-2501	The following issue exists: 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.
PXSW-2487	An issue exists where some interfaces may be down after the reboot of a large number of interfaces. In release 3.1.0, we support as many as 2000 IP interfaces.
PXSW-2443	The following MC traffic issue exists: 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.
PXSW-2442	The following MC traffic issue exists when decreasing the confluent ring size: After dropping the confluent ring size from 4 to 2, the previously included ports that are

Issue ID	Description
	<p>now not part of the LAG, are not removed from the MC group. As a result, line rate MC traffic is seen.</p>
<p>PXSW-2440</p>	<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>
<p>PXSW-2165</p>	<p>An issue exists where:</p> <p>If the following User Defined Path conditions exist:</p> <ul style="list-style-type: none"> • the path uses confluent ring ports • the last switch in the path (egress switch) is the Ubervisor switch <p>And if a Flow Entry has the following characteristics:</p> <ul style="list-style-type: none"> • Path action is selected • The user defined path stated above is selected • The egress ports on the Ubervisor egress switch (last switch in path) are not selected <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 the egress switch for a User Defined Path that uses the confluent ring, explicitly select the egress ports on the egress (Ubervisor) switch, when configuring the flow entry in Plexxi Control.</p> <p>If the last switch in the path is not an Ubervisor switch, traffic flows as expected.</p>
<p>PXSW-2162</p>	<p>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.</p>
<p>PXSW-1216</p>	<p>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.</p>