



**Hewlett Packard**  
Enterprise

*HPE Plexxi HCN™*  
*Release Notes*  
*Plexxi Connect Software*  
*Release 3.1.0*

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## About HPE Plexxi Connect 3.1.0

This document contains information about the Plexxi Connect 3.1.0 release.

## Software Versions Included

The following versions of software updates are included:

- Plexxi Connect UI
- Plexxi Connect VMware vSphere Client plugin
- HPE Plexxi Control Integration Pack
- VMware vSphere Integration Pack
- HPE SimpliVity Integration Pack
- VMware NSX Integration Pack
- Nutanix Prism Integration Pack

## New Features

The following new features and software changes are included in this release:

- HPE SimpliVity Integration Pack
- HPE SimpliVity ESXi VLAN Auto-Provisioning and Dynamic Fabric
- VLAN Group Auto-provisioning and Naming

## Related Documentation

The following documentation supports this release:

- *Plexxi Compatibility Matrix*, version 11 or greater. The *Plexxi Compatibility Matrix* contains version-specific software and hardware support information as well as cable and transceiver support information.
- *Plexxi Connect Installation, Upgrade and Administration Guide, Release 3.1.0*
- *Plexxi Connect UI Online Help*, available in the Plexxi Connect UI

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>

## HPE SimpliVity Integration Pack

The HPE SimpliVity Pack integrates Plexxi Connect with the HPE SimpliVity hyperconverged infrastructure for VMware vSphere. The HPE SimpliVity pack supports as many as ten pack configurations. Each pack configuration supports a federation, i.e. a related group of clusters, with each cluster containing any number of HPE SimpliVity Nodes. HPE SimpliVity runs on top of VMware ESXi, therefore the required VMware vSphere pack gathers much of the infrastructure data and performs much of the Plexxi network configuration (VLAN provisioning, etc.). The HPE SimpliVity Pack discovers and creates an inventory of SimpliVity Cluster-specific information that cannot be retrieved from vSphere. This enables the isolation of VLANs that, although provisioned by vSphere, are used by SimpliVity for storage as part of a SimpliVity storage isolation topology.

Most of the host and VM data is obtained from the VMware environment by the VMware vSphere pack. Data gathered by the HPE SimpliVity pack is used to identify which clusters, hosts and VMs are part of the SimpliVity environment. The following information is discovered by the HPE SimpliVity Pack:

- SimpliVity Cluster information.
- SimpliVity Host information.
- SimpliVity VM information.

Also, ESX LLDP or CDP harvests node locations for presentation in the Connect UI.

Using information gathered by both the VMware vSphere pack and the HPE SimpliVity pack, the Plexxi Connect UI Host view presents SimpliVity OmniStack ESX host environment objects and details. The Plexxi Connect visualizers provide an overall view of the SimpliVity <> Plexxi environment, showing the virtualized infrastructure.

## HPE SimpliVity ESXi VLAN Auto-Provisioning and Dynamic Fabric

The HPE Plexxi Connect 3.1.0 release adds the following functionality:

- Discovery of HPE SimpliVity Nodes by the HPE SimpliVity Integration Pack. This information is provided to the Plexxi Connect UI which presents the information on the Hosts tab.
- Plexxi environment auto-configuration of VLANs used for HPE SimpliVity storage traffic. On SimpliVity nodes, storage traffic VLANs are manually configured, tested by SimpliVity deployment tools, and if all tests pass, the VLANs are configured into vSphere. After the VLANs are configured in vSphere, the VMware vSphere Integration Pack obtains the VLAN information from vSphere and automatically configures them in the Plexxi environment.
- Creation of an isolated topology for HPE SimpliVity storage traffic based on the VLANs used. This is done by the HPE SimpliVity Integration Pack.

## VLAN Group Auto-provisioning and Naming

Plexxi Connect uses a new naming convention when automatically provisioning VLAN groups in the Plexxi fabric for changes that occur in the customer environment such as a vMotion or network expansion. The naming results from an auto-provisioning paradigm where Plexxi Connect examines VLANs used for vSphere Port Groups or Nutanix Virtual Networks connected through a Physical Network Interface (PNI) to a Plexxi switch access port, and applies all VLANs to the VLAN Group. This auto-provisioning method creates a single VLAN Group per vSwitch, where the VLAN Group consists of all VLANs configured for the vSwitch.

### Automatic VLAN Group Naming

A single VLAN Group is configured:

- for a vSphere environment, per vSphere Host vSwitch or vCenter dvSwitch.
- for a Nutanix environment, for all ports connected to an OVS bridge.

Automatically-provisioned VLAN Group names now have the following format:

- For a connection to a VMware vSphere environment, either:

*<Host name>\_<vSwitch name>*

*<vCenter name>\_<dvSwitch name>*

- For a connection to a Nutanix environment:

*<Host name>\_<vSwitch name>*

## Issues Fixed in the 3.1.0 Release

Issue ID	Description
PXPSE-3293	The Nutanix pack might time out when gathering data for a deployment with a large number of VMs.
PXPSE-2705	The Plexxi Connect UI Host view reports an internal server error when a user removes the vmkernel adapter running VXLAN on a host when there are Virtual Machines connected to the NSX logical network.
PXPSE-2057	Fixed an issue where a vMotion migration is performed in the customer environment and due to a timeout issue, the VLAN groups are not added or updated in the Plexxi fabric. Therefore, the Plexxi fabric was unable to fully connect with the customer environment.
PXPSE-1044 and 1141	Under certain scenarios, it is possible that the Plexxi Control jobs created by Plexxi Connect can fail due to a lack of synchronization between 1 or more Jobs. When this occurs, Plexxi Control will be left in the correct state despite the job failure.

## Known Issues in the 3.1.0 Release

### Known Plexxi Connect Issues

Issue ID	Description
	Plexxi Connect leverages LLDP and CDP advertise on distributed vSwitches to know where ESXi servers are cabled into the Plexxi Fabric. Ensure that DNS is properly configured on the ESXi servers so that LLDP sends out accurate information.
PXUI-3851	In the Plexxi Connect UI, on the Configuration > Switches > Ports page, the Port dropdown in the column header occasionally does not show the All selection even though numbers are listed for ports.
PXUI-3764	If run in Firefox, hovering over the ports in the port map on the top-right displays tool tips partially on the top-left.
PXUI-3271	The Microsoft Edge browser is not supported with the Plexxi Connect 3.x UI.
PXPSE-3300	The SimpliVity pack does not detect changed vSphere credentials.  If, after creating a SimpliVity pack with a set of vSphere credentials, the vSphere-access credentials are changed within vSphere, the SimpliVity pack does not detect the new vSphere credentials and continues using the expired credentials. Also, since the SimpliVity pack has no knowledge of the changed vSphere credentials, in the Plexxi Connect UI, the SimpliVity pack is still shown as Connected (green) even though the original credentials are now no longer valid.

Issue ID	Description
PXPSE-2532	<p>The Plexxi Connect cache is not updated when a QinQ group is deleted from a port in the Plexxi Control UI.</p> <p>In the Plexxi Control UI, if a QinQ group is added to a port, in the Plexxi Connect UI, only the CVLAN IDs are visible on the port because there is no knowledge of QinQ groups. If you subsequently delete the QinQ group from the port in the Plexxi Control UI, the Plexxi Connect UI maintains the CVLAN IDs on the ports.</p>
PXPSE-2458	<p>After a VM is powered on, the Plexxi Connect Host view takes a long time to display the IP address of the VM.</p>
PXPSE-1603	<p>When an existing VLAN Affinities Fit Style is updated from Off to Incremental or Full, a Fit will not be immediately run if this is the only change detected by Connect. If a Fit is necessary, one can be run manually via Plexxi Control. The next change detected by Plexxi Connect that impacts the VLAN Affinity will result in a Fit being run.</p>
PXPSE-1602	<p>Under certain scenarios, it is possible that the Plexxi Control jobs created by Plexxi Connect for managing VLAN Affinities can fail due to a lack of synchronization between 1 or more jobs. When this occurs, Plexxi Control will be left in the correct state despite the job failure.</p>
PXPSE-1044 and 1141	<p>Under certain scenarios, it is possible that the Plexxi Control jobs created by Plexxi Connect can fail due to a lack of synchronization between 1 or more Jobs. When this occurs, Plexxi Control will be left in the correct state despite the job failure.</p>
PXPSE-812	<p>The vSphere pack in Plexxi Connect should not be configured with multiple configurations referencing the same vCenter server (e.g., one by its fully qualified domain name and one by IP address).</p>
PXPSE-791	<p>Plexxi Connect will not properly configure VLANs for Virtual Machines with Fault Tolerance enabled.</p>
PXPSE-607	<p>Plexxi Connect includes the Open VM Tools package. When Plexxi Connect is deployed in a VMware environment Open VM Tools will be run and it will sync the Plexxi Connect VM's clock with the time on the ESXi server. As a result, users of Plexxi Connect should verify that their ESXi servers have the proper time configured (NTP is recommended).</p>

## Known Nutanix Prism Issues

Issue ID	Description
ENG-86651	<p>To report port speeds, Nutanix Prism uses the SNMP ifSpeed object identifier which does not support speeds 10GB or greater. Therefore, Prism reports Plexxi port speeds incorrectly.</p>