Cisco Prime Provisioning 6.3 Release Notes

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All documentation, including this *Cisco Prime Provisioning 6.3 Release Notes* document and any or all parts of the Cisco Prime Provisioning 6.3 documentation set, *might* be upgraded over time. Therefore, we recommend you access Prime Provisioning 6.3 documentation set online at:

http://www.cisco.com/go/provisioning

You can also navigate to this documentation set by clicking **Help** on the Home Page of the Prime Provisioning 6.3 product.

The information in this release notes provides an overview of this release and helps you understand it at a high level. After reading the *Cisco Prime Provisioning 6.3 Documentation Overview*, please read this release note prior to reading any other documentation for Prime Provisioning 6.3.

URLs for base information about Prime Provisioning 6.3, a product overview, and suggested reading order of these documents is given in Related Documentation, page 10.

Contents

This document includes the following sections:

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Introduction

Prime Provisioning is a management solution for network fulfillment and diagnostics that enables the automation and scaling of complex, policy-driven network provisioning tasks to produce consistent and reliable service deployments. Prime Provisioning does this by planning, provisioning, and auditing services across core, aggregation, access, and consumer premises equipment devices.

Cisco Prime Provisioning 6.3 provides full life cycle service management including MPLS Virtual Private Networks (VPNs), MPLS Traffic Engineering (MPLS TE), MPLS Transport Profile (MPLS TP), Metro Ethernet Forum compliant Carrier Ethernet services and TDM over MPLS services, SAToP, and CESoPSN.

Cisco Prime Provisioning 6.3 introduces a number of new features for MPLS TP, e.g. VPLS with statically allocated labels over multi-segment pseudowires over MPLS-TP, support for MPLS-TP topology changes and MPLS-TP provisioning on the ASR 9000. The changes related to MPLS-TP discovery and topology are highlighted.

Cisco Prime Provisioning 6.3 leverages Cisco Prime Network to manage MPLS-TP network topologies. Please see *www.cisco.com/go/prime-ipngn* for the complete portfolio of Prime for IP NGN.

Cisco Prime Provisioning includes configuration and functional audits as well as pro-active diagnostic tools for MPLS VPNs to ensure services are consistent across the network, significantly reduces time to repair for critical services.

System Recommendations and Platform Support

The system recommendations and requirements are listed in Cisco Prime Provisioning Supported Devices 6.3. It includes the network devices and related software supported with Prime Provisioning 6.3. We recommend that you thoroughly review that list before even planning your installation, to be sure you have all the hardware and software needed for a successful installation. We also recommend that you review the section Important Notes, page 6, in this release note in order to be aware of any known system, installation, or other issues in the current release.

New Features and Enhancements in Prime Provisioning 6.3

Prime Provisioning 6.3 is based on Cisco Prime Fulfillment 6.2 with the addition of new and changed information that was introduced in Cisco Prime Fulfillment 6.2.1.

See *Release Notes for Cisco Prime Fulfillment 6.2.1* for more information on the Cisco Prime Fulfillment 6.2.1 release. With the addition of new features, information from the previous release notes has been included in the Prime Provisioning 6.3 documentation set.

Prime Provisioning 6.3 includes problems fixed since Cisco Prime Fulfillment 6.2.1. See Prime Provisioning 6.3 Resolved and Open Bugs, page 8.

Note With this release, Prime Provisioning can be used as a standalone product or as part of the Cisco Prime for IP Next Generation Network (IP NGN) Suite. When installed as part of the suite, you can launch Prime Provisioning from the Prime Central portal. For more information about Prime Central, see the documentation for Cisco Prime Central 1.1.

Items specific to Prime Provisioning 6.3 include the new and changed information as documented in the following sections:

General New Features

All the new features introduced in this release are explained in the *Cisco Prime Provisioning 6.3 User Guide*.

This section includes new system level features added in Prime Provisioning 6.3:

Product Renaming to Prime Provisioning

The product is now called Prime Provisioning as the product portfolio in the Fulfillment area has been expanded. In addition to this Prime Provisioning product, there are two new products called Prime Order Fulfillment and Prime Active Catalog. Please see the Fulfillment family product page for more information: *http://www.cisco.com/go/fulfillment*

Prime for IPNGN 1.1

Prime Provisioning 6.3 is compatible with Prime for IPNGN suite version 1.1. New suite integration features include secure communication among the applications in the Prime for IPNGN suite using https.

See the Prime for IPNGN web page for more information: *http://www.cisco.com/en/US/products/ps12290/index.html*

Usability

Prime Provisioning 6.3 introduces a number of usability enhancements:

- All the customer related information is displayed on one page. The customer page allows viewing and editing of the customer details, customer sites, customer VPNs, and CPEs. All tables on each tab has consistent behavior in terms of searching and filtering.
- There is a global search bar that allows searching for customers. The search result is either a list of matching customers or the customer page, if there is only one match to the search.
- The Service Policy picker offers searching and filtering capabilities.
- Shortcut buttons are available for jumping directly to create a new Service Request or the Service Request Manager.
- The MPLS VPN and Ethernet Virtual Connection (EVC) Service Request types has an improved way of selecting device interfaces, which offers searching and filtering.

- For the MPLS-TP Service Request type, all selection offers searching and filtering.
- Template Manager and Host Configuration now responds much faster, as the pages load data on demand.
- If a web browser other than those officially supported is used, then the login screen will issue a warning, which lists the supported web browser types.

L2VPN New Features

All L2VPN features are explained in detail in the *Cisco Prime Provisioning 6.3 User Guide.*

This section includes new features for multiple components that were added in Prime Provisioning 6.3:

- VPLS with Multi-Segment Pseudowires over MPLS-TP, page 4
- Default and untagged matching for Ethernet service, page 4

VPLS with Multi-Segment Pseudowires over MPLS-TP

Prime Provisioning now enables provisioning of VPLS over an MPLS-TP enabled network. Some or all of the LSPs interconnecting the VPLS instances can be admitted onto existing MPLS-TP tunnels (which may have been provisioned using Prime Provisioning). The LSPs may be configured as multi-segment pseudowires, where each hop can be admitted onto an MPLS-TP tunnel. Prime Provisioning will automatically route the multi-segment pseudowire along the shortest path, taking into consideration any included and/or excluded nodes and/or tunnels. The LSP/pseudowire labels may be statically allocated by Prime Provisioning.

Statically allocating pseudowire label eliminates the need for a directed protocol to be run within the VPLS to do label exchange and therefore eliminates the need for IP connectivity between the endpoints in the VPLS.

Prime Provisioning manages a pool of static MPLS labels that is shared across VPLS and MPLS-TP services.

Labels already in use are discovered and removed from the label pool to ensure unique allocation of MPLS labels.

In Prime Provisioning 6.3, the multi-segment feature is limited to VPLS provisioning only. Also, in this version every segment has to be admitted onto an MPLS-TP tunnel.

Default and untagged matching for Ethernet service

Prime Provisioning enables you to configure a default Virtual Local Area Network (VLAN) matching criteria when provisioning Ethernet services. This allows the matching of any ethernet frame that is not already matched by another service instance on the same interface.

It is also possible to create a service instance to match untagged frames. These features are available when the access interface is located on the N-PEs.

Default matching was already present in Prime Provisioning but with a much less intuitive UI. This feature can be accessed by entering a dummy outer VLAN on the match criteria, and by selecting **default** encapsulation on the next page of the wizard. It would still work for backward compatibility.

Ethernet A and Z end VLAN Tagging

Prime Provisioning now support the ability to edit the **Inner VLAN ranges** or **outer VLAN ranges** flag when creating the service request. The VLAN ranges are allowed to be controllable only at the policy level. In particular, this enables the creation of a pseudowire where on one access port you have an outer VLAN range, and on the other you have an inner VLAN range. It was not possible in the past because both ports were controlled by one policy.

MPLS Transport Profile New Features

See the *Cisco Prime Provisioning 6.3 User Guide* for further information about MPLS-TP. This section includes:

MPLS-TP Topology Integration with Prime Network

Prime Provisioning will retrieve the MPLS-TP topology from Prime Network. This change enables discovery on IOS-XR devices and removes the requirement to run CDP in your network to discover the physical topology.

This includes MPLS-TP enabled nodes and links. Prime Network is now a prerequisite for provisioning of MPLS-TP tunnels with Prime Provisioning. For more information about this feature, see *http://www.cisco.com/en/US/products/ps11348/index.html*.

Note The ability to discover MPLS-TP topology directly from previous discovery in the network without using Prime Network is still present but is deprecated. This would be removed going forward and Prime Network will be a prerequisite for MPLS-TP provisioning.

MPLS-TP Topology Change

Prime Provisioning supports management of changes in the MPLS-TP topology. After making topology changes in the network, including node and/or link insertion and/or removal, you can re-synchronize Prime Provisioning with Prime Network in order to learn about the topology changes. The re-synchronization can be targeted towards, e.g., only the newly inserted node. Any MPLS-TP tunnel Service Requests that are impacted by the topology change will automatically recalculate the tunnel path (for working and/or protect path) and the Service Request will enter the Requested state so that the operator can review and deploy the modified tunnel. Discovery updates the affected Service Request (SR) history report with state transition, affected LSP (working path), and new path calculated by discovery.

MPLS-TP on ASR 9000 (with IOS XR)

Prime Provisioning now supports provisioning of MPLS-TP tunnels on ASR 9000 series devices with IOS XR 4.2 and 4.2.1. The ASR 9000 devices can be MPLS TP endpoint and midpoint.

API New Features

All Application Programming Interface (API) features are explained in detail in the *Cisco Prime Provisioning 6.3 API Programmer Guide* and the accompanying *Cisco Prime Provisioning 6.3 API Programmer Reference*.

New features added in Prime Provisioning are generally available via both the GUI and APIs. See the respective sections in this document for a description of new features under each service.

Following MPLS-TP Discovery operations are supported via NBI

- MPLS-TP Discovery
- MPLS Label Sync

Restructuring of the Documentation Set

The Prime Provisioning documentation set updated for this release is as follows:

- *Cisco Prime Provisioning 6.3 Documentation Overview*
- *Cisco Prime Provisioning 6.3 Installation Guide*
- *Cisco Prime Provisioning 6.3 Supported Devices*
- *Cisco Prime Provisioning 6.3 User Guide*
- *Cisco Prime Provisioning 6.3 Administration Guide*
- *Cisco Prime Provisioning 6.3 Open Source*
- *Cisco Prime Provisioning 6.3 API Programmer Guide*
- *Cisco Prime Provisioning 6.3 API Programmer Reference*

Important Notes

This section lists known bugs and issues to be aware of in this release. These are listed in the following categories:

- Installation Notes, page 6
- Web Browser Support, page 7

Installation Notes

- Prime Provisioning patches are available at:

  http://www.cisco.com/cgi-bin/tablebuild.pl/isc

- The supported Sybase and Oracle databases behave differently. All SQL queries are case-insensitive for Sybase and case-sensitive for Oracle. This behavior difference appears on search enabled tables with a ‘Find’ button.

For information about the installation process, see the *Cisco Prime Provisioning 6.3 Installation Guide* .

Web Browser Support

1. Prime Provisioning GUI is supported by the following browsers:
   - Firefox browser version 8 and 9.
   - Internet Explorer 8 and 9 (in IE8 compatibility mode)
2. The recommended screen resolutions for both browser windows are:
   - 1024 x 768 pixels
   - 1280 x 1024

   To view fonts and colors correctly, the system display must be set to use a color quality of at least 32-bits.
3. The Java Runtime Environment (JRE) version 6 (update 23) or later must be configured on the system running the browser.
4. The **JAVA_HOME** environment variable must be set to the JRE directory
5. The zoom functionality only works properly in the Prime Provisioning GUI if the Firefox browser menu option **View > Zoom > Zoom Text Only** is unchecked.
6. You cannot have two Prime Provisioning user sessions running on the same browser. This is caused by the session ID being used for both, which causes the screen context to be lost.
7. Adobe Flash player (version 10.3.183.7) and its plug-in have to be installed to support the web browser and allow viewing of the main bar and charts in the GUI.
8. If the Service Request Chart (pie chart) displays both very large and very small numbers, the pie section representing very small numbers is also very small and consequently difficult to access.

   Workaround: Try selecting individual subsections (broken, working, or to be deployed).
9. For some operations that last a long time, the browser may issue a message like “Warning: Unresponsive script. A script on the page may be busy....” Two examples of this are when editing a customer device with many interfaces, and when editing user details, if there are many users.

   Workaround: Increase the browser timeout value.

Prime Provisioning 6.3 Resolved and Open Bugs

The following bugs were resolved in Prime Provisioning 6.3:

Bug Number	Description
CSCty64993	Grey Management VPN SR moves to FAILED_DEPLOY on incorrect routemap removal.
CSCty97407	PF hung when edit and save the EVC SR description.
CSCtz85868	Filtering customers uses wildcard search instead of dropdown.
CSCtz04337	Decommission of MPLS/L2VPN/VPLS SR in 4500 device fails.
CSCtz88198	The 6.2.1 upgrade script “df -k” should be changed to “df -P -k” in Linux.
CSCtz91139	Service Request moved to failed audit state as the command “switchport mode access”.
CSCtx41572	Silent installer throws error while unzip the upgrade tool.
CSCty87273	Deployment of Grey Management VPN SR on IOS-XR missing import route-target.
CSCtx95670	In NBI, ISC is hung while creating multiple datafiles using a script.
CSCua80847	UNI interfaces are improperly listed for EVC-L2 links, DOT1QTUNNEL encapsulation.
CSCtz58616	JOB ID should not be added as part of UPE UNI description.
CSCty93076	Admin/user with administrative rights unable to change users password.
CSCty62733	Service Request moves to INVALID state with serial interface of format Serialx/y/z.x/y.
CSCty93095	Admin/user with administrative rights unable to edit user groups/roles.
CSCty56999	ISC is configuring wrong NPC ring interfaces.
CSCts29127	VPLS-EWS removes VLAN/interface/VFI from NPE when services exist on NPE.
CSCtz22996	Audit failure while modifying an SR from IPV4 to IPV4 and IPV6 on IOS-6VPE.
CSCty79468	VLAN is removed from the device if VLAN-name-attribute/SR-description is edited.
CSCty57023	ISC is not modifying the template information, during edit of EVC SR.

The following open bugs apply to Prime Provisioning 6.3:

Bug Number	Description
MPLS-TP	
CSCua75503	RBAC discovery error, denies graph update permission.
CSCua80457	Error message seen in Config audit is not proper.
CSCua93310	Path calculation fails for SRs who has both working and protect path.
CSCua96031	Unable to set DCPL properties in solaris.
CSCua98397	Exclude links does not work in path calculation with desired node diversity.
CSCub14978	Unable to modify SRs in INVALID state for path constraint.
CSCub15639	"Node diversity Desired" behaves as "Node diversity Required".
MPLS	
CSCua81570	Configlet preview for MPLS SR with auto allocate IP/30 goes to Invalid.
Infrastructure	
CSCub18233	GUI does not accept correct SID during PP installation in suite mode.
GUI	
CSCua93669	Exception in Prime Fulfillment GUI.
CSCua96152	“22 : SQL Exception occurs while inserting record"- Inventory Import Filter.
CSCub09874	Import inventory error message contain “ANA” instead of “Prime Network”.
GUI_Infra	
CSCua90621	Deleting customer associated with VPN & policy shows improper error.
TEM	
CSCub01808	On TE link deletion, NBI reports null exception.
FlexUNI	
CSCua56696	Adding template withloopback interface to the EVC SR goes to FAILED_AUDIT.
CSCua78637	Multisegment PW "Calculate path" page does not have SVG support in IE9.
CSCua84161	EVC - unable to modify "VLAN Match Criteria" attributes.
CSCua89657	EVC Static VPLS SR goes to FAILED_AUDIT state with enabling split horizon.
CSCua90132	PW configuration page Insert duplicate row button is not working in IE9.
CSCua90460	Multi-segment PW configlet wrong in dual home ring.
CSCua92638	Static VPLS SR, rehoming device generates incomplete/improper configlet.
CSCua93637	Redeploy fails after modifying BD-VLAN in static-VPLS SR.
CSCua94067	EVC Static VPLS SR goes to FAILED DEPLOY state by adding direct link.

Finding Known Problems in Prime Provisioning 6.3

To find known problems in Prime Provisioning 6.3, use the following URL:

http://tools.cisco.com/Support/Bug Tool Kit

You must log into Cisco.com.

You can search for specific bugs or search for a range by product name. This tool enables you to query for keywords, severity, range, or version.

Use the following search criteria to locate bugs for Prime Provisioning 6.3:

- Product category: **Network Management and Automation**
- Product: **Cisco IP Solution Center or Cisco Prime Fulfillment or Cisco Prime Provisioning**
- Software version: **6.3** (For a list of bugs open against all releases, choose **ANY**.)

The results display bug ID and title, found-in version, fixed-in version, and status. The bug ID is a hyperlink to detailed information for the bug ID's product, component, severity, first found-in, and release notes.

The results could be displayed in a feature matrix or spreadsheet.

Related Documentation

The entire documentation set for Prime Provisioning, can be accessed at:

http://www.cisco.com/en/US/products/ps12199/tsd_products_support_series_home.html

or at:

http://www.cisco.com/go/provisioning

The following documents comprise the Prime Provisioning 6.3 documentation set:

General Documentation (in suggested reading order)

- *Cisco Prime Provisioning 6.3 Documentation Overview*
- *Cisco Prime Provisioning 6.3 Release Notes*
- *Cisco Prime Provisioning 6.3 Installation Guide*
- *Cisco Prime Provisioning 6.3 Supported Devices*
- *Cisco Prime Provisioning 6.3 User Guide*
- *Cisco Prime Provisioning 6.3 Administration Guide*
- *Cisco Prime Provisioning 6.3 Open Source*

API Documentation

- *Cisco Prime Provisioning 6.3 API Programmer Guide*
- *Cisco Prime Provisioning 6.3 API Programmer Reference*

Note All documentation *might* be upgraded over time. All upgraded documentation will be available at the same URLs specified in this document.

Other Cisco Prime Product Documentation

See also the documentation for the following Cisco Prime products:

- *Cisco Prime Central 1.1*
- *Cisco Prime Network 3.9*
- *Cisco Prime Optical 9.6*
- *Cisco Prime Performance Manager 1.2*

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html

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