Cisco Prime Provisioning 6.7 Release Notes

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All documentation, including this Cisco Prime Provisioning 6.7 Release Notes document and any or all parts of the Cisco Prime Provisioning 6.7 documentation set, might be upgraded over time. Therefore, we recommend you to access the Prime Provisioning 6.7 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 6.7 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 6.7 Documentation Overview*, please read this release note prior to reading any other documentation for Prime Provisioning 6.7.

URL's for base information about Prime Provisioning 6.7, a product overview, and suggested reading order of these documents is given in Related Documentation, page 11.

Contents

This document includes the following sections:

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Introduction

Prime Provisioning is a management solution for network provisioning 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 enables fast deployment and time-to-market of Multiprotocol Label Switching (MPLS) and Carrier Ethernet technologies. In addition, the Prime Provisioning Traffic Engineering Management (TEM) module is Cisco's exclusive planning and provisioning tool for Cisco MPLS Traffic Engineering-enabled routers. MPLS Transport Profile (TP) provides service providers with a reliable packet-based technology that is based upon circuit-based transport networking, and hence is expected to align with current organizational processes and large-scale work procedures similar to other packet transport technologies.

The Cisco Prime Provisioning solution has management capabilities for MPLS VPN, L2VPN and Carrier Ethernet, MPLS TP, and MPLS Traffic Engineering. These capabilities that comprise Cisco Prime Provisioning can be used in a stand-alone manner or can be integrated with the Prime Carrier Management April 2014 suite.

Cisco Prime Provisioning 6.7 includes many new features whose highlights are listed below:

- Introduction of SOCKS5 Proxy IP attribute for Cisco devices that needs proxy connection.
- Extended support to Firefox version 30 and Internet explorer versions 9, 10, 11.
- New Backup script is available along with the downloaded version of the product.
- Determines the behavior of the interface based on the Pseudowire Headend check box.
- Supports Service Provisioning, Discovery and Monitoring over PBB-EVPN through policy based customization.
- Allows to embed customized command line interface templates to MPLS-TP policies.

Installing Prime Provisioning 6.7

When purchasing Prime Provisioning you will be prompted to select either delivery by

- eDelivery, in which case you will receive an email with a download link, or
- physical DVD media

If the version is not the latest, you are advised to upgrade. The latest Prime Provisioning 6.x version can be ordered for download by eDelivery (or DVD shipment) free of charge, provided that you have a Software and Services (SAS) contract. The minor upgrade can be ordered through the Product Upgrade Tool (PUT):
http://tools.cisco.com/gct/Upgrade/jsp/productUpgrade.jsp

Additionally, you are strongly advised to apply the latest available service patch. Prime Provisioning patches are available at
http://software.cisco.com/download/navigator.html?mdfid=284127465&flowid=37682

For information about the installation process, see the *Cisco Prime Provisioning Installation Guide 6.7.*

Installation Notes

After the Patch upgrade, certain host configuration properties are not retained. So, it is advisable to create a backup of all the DCPL settings, by running the following script.

$PRIMEF_HOME/bin/extractproperties.sh

Once you upgrade, run the following script to restore the DCPL settings.

$PRIMEF_HOME/bin/extractproperties.sh -replace

New Features and Enhancements in Prime Provisioning 6.7

This section describes features and enhancements added or modified in Prime Provisioning 6.7.

For system recommendations, refer to the *Cisco Prime Provisioning Installation Guide 6.7,* and for device and platform support, refer to Cisco Prime Provisioning Supported Devices. It includes the network devices and related software supported with Prime Provisioning 6.7. We recommend that you thoroughly review this list before even planning your installation, to be sure you have all the hardware and software needed for a successful installation.

Prime Provisioning 6.7 is based on Cisco Prime Provisioning 6.6.1.

Prime Provisioning 6.7 includes problems fixed since Cisco Prime Provisioning 6.6.1. See Prime Provisioning 6.7 Resolved and Open Bugs, page 9.

Note Cisco Prime Provisioning 6.7 is only compatible with Cisco Prime Central 1.3. Make sure you upgrade Cisco Prime Central to version 1.3 before upgrading and integrating the current version of Prime Provisioning.

Note

- Prime Provisioning can be used as a standalone product or as a part of Prime Carrier Management April 2014. 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.
- Cisco Prime for IP Next Generation Networks (IP NGN) has been renamed as Cisco Prime for Evolved Programmable Networks (EPN). Please keep this in mind when viewing the suite and application documentation for the upcoming Cisco Prime Carrier Management release.

Items specific to Prime Provisioning 6.7 include the new and changed information as documented in the following sections:

- Features introduced in Prime Provisioning 6.6.1.
  - General New Features, page 4
  - L2VPN/EVC/TDM-CEM/ATM New Features, page 5
  - MPLS New Features, page 7
- Features introduced in Prime Provisioning 6.7.
  - General New Features, page 7
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Features introduced in Prime Provisioning 6.6.1

General New Features

All the new features introduced in 6.6.1 release are explained below.

Configuring Sybase Credentials

In Prime Provisioning 6.6.1 release, changeDBPassword.sh script has been introduced to update Sybase database password. This script is available in <PRIMEF_HOME>/bin. It allows only the installation owner to execute it with the initial credentials. It also validates if the database is running properly.

Adhere to the rules below, while updating the Sybase password:

- You should not enter a simple password or any of your old passwords.
- Password must contain at least: one uppercase letter, one lowercase letter, and one number.
- Password length should be in the range of 8 to 30 characters.
- Special characters and ASCII character set are not allowed.

Once the password is updated, you need to validate the backup and restore process, and upgrade Paths.

Use the following steps to execute the script:

Step 1 Navigate to the directory where the latest version of Prime Provisioning software is installed.

Step 2 In <PRIMEF_HOME>/bin, execute the following script:

./changeDBPassword.sh

Step 3 Enter the valid username and password.

Step 4 After the validation, you will be prompted with the following message “Enter database new password:”.

Step 5 Enter a valid new password that adhere to the guidelines mentioned above.

Prime Provisioning gets restarted automatically once the new password is updated in the database and the properties file.

As a part of this feature, few scripts related to Backup and Restore tool installation has been modified.

Note From this release, you will be no longer prompted with the Sybase credentials during the installation of the Backup and restore tool.

Supporting 32 Bit BGP AS Number

Earlier while creating a provider, you were allowed to enter only 16 bit number within the range of 1 to 65535 as the BGP AS number. But from this release, Prime Provisioning accepts a 32 bit number with a value range from 1 to 4294967295 as the BGP AS number.

But this also has an impact on the RD and RT values associated with the BGP AS number.

ASNumber:VPN ID/index (hex or decimal format)

When BGP AS is a 16 bit number, you need to enter a 32 bit value as the VPN ID/index and vice versa. If these values are not entered correctly, the service request moves to failed deploy state.

Supporting LDAP Authentication

Prime Provisioning provides support with LDAP authentication for a more secured environment. You can use either **Oracle Directory Service Enterprise Edition 10g and 11g** or **Micrososft Active Directory** as your LDAP server.

To perform authentication using LDAP server, you need to set the following attributes in the DCPL properties section:

- **DistinguishedName**
- **HostName**
- **LdapAuthentication**
- **UserDefinedException**

From Prime Provisioning 6.5.0.5 release, Distinguished Name property supports two formats. If the property contains {0} then it is used as a DN template, otherwise it is used as a DN suffix with uid used as a prefix.

For identifying users within a group or subgroup:

```
Ldap.DistinguishedName=
OU=Employees,OU=Cisco Users,DC=cisco,DC=com
```

This format type is used in **Oracle LDAP**.

Sample result of this format: uid=donaldh,OU=Employees,OU=Cisco Users,DC=cisco,DC=com as the bind DN.

```
Ldap.DistinguishedName=
cn={0},OU=Employees,OU=Cisco Users,DC=cisco,DC=com
```

This format type is used in both Oracle and MS AD LDAP.

Sample result of this format: cn=donaldh,OU=Employees,OU=Cisco Users,DC=cisco,DC=com as the bind DN.

From Prime Provisioning 6.6.1.1, in MS AD LDAP along with the above format you can also mention the DN in two different formats.

For identifying users within a Domain:

```
Ldap.DistinguishedName=cisco\{0}
```

For identifying users from the entire Directory:

```
Ldap.DistinguishedName=Entire Directory
```

For successful authentication, the user must be created in both Prime Provisioning and LDAP server with same or different passwords. But when you login into Prime provisioning by enabling LdapAuthentication, you need to enter the password that was configured in LDAP server.

L2VPN/EVC/TDM-CEM/ATM New Features

This section summarizes features that were added to enhance EVC services in Prime Provisioning 6.6.1.

Provisioning ME1200 Devices on EVC Services

ME1200 devices when provisioned as UPE role based has access to EVC services such as E-Line, ELAN and E-Tree. Prime Provisioning supports these devices to be used either as single homed access circuit and single/double homed ring circuit. Additional interface configuration is provided for single and dual home ring circuit. The devices are supported with the following EVC features:

- DOT1Q - to - DOT1Q provisioning using bridge-domain.
- DEFAULT AND UNTAGGED encapsulation provisioning at UNI interface using bridge-domain
- Rewrite type (POP/PUSH/TRANSLATE) support at UNI interface.
- Outer VLAN Range are supported with the list of VLANs provided in a hyphenated form. Comma separated form is not supported in the device.

Note While creating the ME1200 device, select the OS type as ME1200. These devices does not support different Encapsulation and rewrite type functionalities in a NON-UNI interface.

Creating EPL and EVPL policy

In this release, a new attribute UNI Multiplexing has been introduced as a check box in the EVC policy editor screen. This attribute helps in creating EPL and EVPL policy.

- To create an EVPL policy, check the UNI Multiplexing check box.
- To create an EPL policy, uncheck the UNI Multiplexing check box.

Note By default, the check box is always checked

When you create an SR using EPL policy with an interface, then that interface is not available for further provisioning of any EPL or EVPL services. When you create an SR using EVPL policy with an interface, then that interface will be available for provisioning EVPL services but not for EPL services. This feature is supported through both GUI and NBI.

Generating Automatic CEM Group ID

In Prime Provisioning, a new attribute Auto-Pick CEM Group ID has been introduced in the EVC service request editor for TDM services. By default, this attribute is always checked as there is no corresponding attribute at the policy level. You can view the auto-generated CEM group ID after deploying the service request in the CEM group ID text box.

When the Auto-Pick CEM Group ID check box is checked the CEM group ID text box is disabled. To enter the value manually, you need uncheck the former and enter the value in the latter. This feature is supported by both GUI and NBI.

Note While generating CEM group ID using this feature, Prime Provisioning does not consider the pre-existing services on the device.

Configuring Encapsulation

In Prime Provisioning, a new attribute Match has been introduced in Policy Editor for configuring flex encapsulation types. New encapsulation type PRIORITY TAGGED has been introduced to this Match attribute at the SR level along with the existing types.

The types of encapsulation available both at policy and SR level are: DOT1Q, DEFAULT, UNTAGGED, and PRIORITY TAGGED. This feature is supported through both GUI and NBI.

Setting Framing Type for TDM Services at Policy Level

In Prime Provisioning, Framing Type attribute has been introduced at the policy level for TDM services. Earlier this attribute existed only at the SR level. The Framing type options available are: SDH, SONET. This feature is supported through both GUI and NBI.

Note By default, the framing type is always set to SDH.

MPLS New Features

This section summarizes the new MPLS features that were added in Prime Provisioning 6.6.1.

Provisioning ME1200 Devices on MPLS Services

ME1200 devices when provisioned as UPE role based have access to MPLS services.
Prime Provisioning supports these devices to be used either as single homed access circuit and single/double homed ring circuit. Additional interface configuration is provided for single and dual home ring circuit. The devices are supported with the following MPLS features:

- DOT1Q - to - DOT1Q provisioning using bridge-domain.
- UNTAGGED encapsulation provisioning at UNI interface using bridge-domain
- Rewrite type (PUSH/TRANSLATE) support at UNI interface.

Note While creating ME1200 device, select the OS type as ME1200. These devices do not support different Encapsulation and rewrite type functionalities in NON-UNI interface.

Features introduced in Prime Provisioning 6.7

General New Features

All the new features introduced in Prime Provisioning 6.6.1 and Prime Provisioning 6.7 release are explained in *Cisco Prime Provisioning User Guide 6.7*.

Configuring IP Address of GNE as ENE Proxy IP

In Prime Provisioning 6.7, a new attribute SOCKS5 Proxy IP is introduced. A device with this attribute acts as an End-point Network Element (ENE) device and is used for both Telnet and SSH type of Terminal Session Protocol. This attribute configures the IP address of Gateway Network Element (GNE) as the proxy IP for the ENE device. ENE device cannot directly connect to any network or to any another ENE device. The connection is possible only using SOCKS5 proxy IP.

Also, other Cisco devices that need proxy connection can make use of this attribute.

Installing the New Backup Script

When upgrading from the earlier release, the existing backup script will no longer work. With this version of Prime Provisioning, you can install the backup script that is available along with the downloaded version of the product. You can download the latest version of the product from the Software Download page.

L2VPN/EVC/TDM-CEM/ATM New Features

Determining the Interface Behavior

When the Configure Pseudowire Headend check box is checked the interface acts as a pseudowire-ether interface and the special attributes related to pseudowire headend appears during the SR creation. When this check box is unchecked the interface of pseudowire-ether acts as a normal gigabit interface where sub interfaces can be configured.

MPLS Transport Profile New Features

Customizing MPLS-TP Policies

With this version of Prime Provisioning, you can now embed customized command line interface (CLI) templates into MPLS-TP policies. You can extend policies only by pasting the XML customization in the CLI Customization text box of the MPLS-TP policy editor page. The changes are added as Additional Attributes in Tunnel Characteristics and Tunnel End-Points accordions. You can modify the additional attributes only through the customization XML and not through the UI of the policy. These values get reflected on the service request associated with the policy once you click the Finish button.

API New Features

All Application Programming Interface (API) features are explained in detail in the *Cisco Prime Provisioning API Programmer Guide 6.7* and the accompanying *Cisco Prime Provisioning API Programmer Reference 6.7*.

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.

Deprecated and Removed Features

- The VPN topology tool has been removed as of Prime Provisioning 6.7. Please use Prime Network for VPN topology.
- Cisco Networking Services (CNS) has been removed as of Prime Provisioning 6.7.

Prime Provisioning 6.7 Resolved and Open Bugs

The following bugs were resolved in Prime Provisioning 6.7:

Bug	Description
CSCue03683	cannot delete EVC interfaces in the GUI when there is only one interface.
CSCuh77644	Migration of SR autopicks wrong VFI name.
CSCui21968	TEM-NBI example xmls not found in resources/nbi/xml/examples directory.
CSCui68591	PP GUI is allowing to create policy with leading & ending spaces.
CSCuj42542	Rows per page doesn't work on L2 Access Node Links page.
CSCuj55997	Different Error messages for SRs search with sort by Cust or Policy name.
CSCum29163	Cisco Prime Provisioning Installation Guide Linux Requirements.
CSCum65969	TE discovery fails with Global pool reservable B/W exceeds "int" range.
CSCum98773	H-VPLS backup pw-class: rewrite pop cmd doesn't show up under the subI/F.
CSCum98793	H-VPLS backup pw-class: preferred-path doesn't show up under pw-class.
CSCun21166	No mdt default shouldn't be removed when multicast cmd still exists.
CSCuo06415	MPLS DualStack w CE fails to configure CE v6 address when auto assign IP.
CSCuo08514	MPLS Dual Stack auto-pick CE IP Address issue.
CSCuo54559	Device login password can be seen even on https connections.
CSCuo54968	PP- No Access Domain association error message on decommission.
CSCup01564	User group options are disabled for prime provisioning in suite mode.
CSCup32107	Decomissioning L3VPN - runs the customization intended for create.
CSCup56470	Validation required on XR device for duplication of interface and vlan.
CSCup94159	Metro Ethernet field not accessible in Bundle-Ether interface in PE.
CSCuq17411	Autopicked vlan is not shown up in GUI during SR edit.
CSCuq27815	"Fulfill/Create Service" is not available in all conditions.
CSCuq63757	Redistribute connected is always off when BGP is Routing protocol.
CSCuq90618	Non-admin user unable to change their password via user account gui.

Bug	Description
CSCuq93218	For a XR device part of AD,Vlanid restricted per device not per interface.
CSCuq98482	Wrong param of ospf vrf default-information originate always.
CSCur00956	IE8/9 throws error while creating VPN with 'Enable VPLS' checked.
CSCur19469	"VTP transparent mode" check needs removal from MPLS prov logic.

The following open bugs apply to Prime Provisioning 6.7.

Bug	Description
CSCum79110	L2/L3 inconsistency while provisioning UPE as cat switch.
CSCuo70946	Decommission failure on CE for MPLS with IPv6 BGP routing.
CSCup30980	Improper error message printed when 'PRIORITYTAGGED' and 'Pop' chosen.
CSCup40077	Message displayed in the note needs to be corrected.
CSCup53904	Warning message is displayed in installation log regarding jar signer.
CSCup61652	Using same policy and same VPN adds unwanted devices under Pseudowire.
CSCup72038	Modification of EVC VPLS (PBB EVPN enabled) generates irrelevant config.
CSCuq25759	Exception is raised, when resource pool option is selected for rbac user.
CSCuq30768	In encapsulation type physical port,Evc params should not be available.
CSCuq30967	vlan id is not highlighted as Mandatory parameter.
CSCuq31023	On a CE device,'Auto-Pick VLAN ID' checkbox should be properly aligned.
CSCuq35559	Error must be thrown when SR State IN_PROGRESS is decomissioned.
CSCuq37426	PP Device console throws error when trying to use the "Default" command.
CSCuq54651	Error message is displayed during database restore.
CSCuq65571	Secondary VLAN ID is not validated when configure BD is not used.
CSCuq76399	Pw-class fields alignment is not proper in Create Pseudowire class page.
CSCuq82976	Decomm of EVC MS VPLS does not remove PwClass if more than 1 present.
CSCuq83550	attribute Name if too big,the area greys out & entry cant be seen & edited.
CSCuq92294	Policy customization should work same for IPv4 & IPv6 address.
CSCuq94454	Modifying HVPLS Role from Spoke to Hub is not removing xconnect command.
CSCur00275	SR failed when modifying EVC ATM transport mode from VP to VC.
CSCur02539	No error msg if VLAN translate 2:2 selected and outer vlan id left blank.

Bug	Description
CSCur06925	Backup PWclass is not removed upon decommiss/modification to new PWclass.
CSCur24915	In temp custom,values Should be tailored for specifc parameter type.
CSCur27292	Error thrown when link to JobId is selected during PW-class modification.
CSCur27366	Wrong navigation by PP when SR details page is opened.
CSCur29143	PP should gray out the TunnelID when Tunnel type is chosen as NONE.
CSCur42105	Runtime.properties file owner needs to be modified.
CSCur46288	Error message should not be displayed, when provider is deleted.
CSCur52335	MPLS-TP goes to failed deployed - existing labels allocated.
CSCur58860	EVC-PW:ASR901/ASR903 used in DHR with PWR enabled generates wrong config.
CSCur78504	EVC: NBI support for Backup Pwclass missing for Ethernet PW service.
CSCur78549	EVC NBI: Error thrown if EVC SR is created enabling "EVC UPE" in policy.
CSCur84610	Generated preview decommission for not deployed SR after SR modification.
CSCur87294	PP allows modification of E-Tree role via NBI wherein GUI its not allowed.

Finding Known Problems in Prime Provisioning 6.7

To find known problems in Prime Provisioning 6.7, use the following URL:

https://tools.cisco.com/bugsearch/search

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 6.7:

- Product category: **Cloud and Systems Management > Routing and Switching Management > Fulfillment Products.**
- Product: **Cisco Prime Provisioning (6.3 to 6.7).**

The results display bug ID and title, found-in version, fixed-in version, and status. The bug ID is a hyper link 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

See the *Cisco Prime Provisioning 6.7 Documentation Overview* for a list of all Prime Provisioning guides.

We sometimes update the documentation after original publication. Therefore, you should also review the documentation on Cisco.com for any updates.

Other Cisco Prime Product Documentation

If you are deploying Prime Provisioning as part of the Prime Carrier Management suite, then see also the documentation for the other suite components:

- *Cisco Prime Central 1.3*
- *Cisco Prime Network 4.1*
- *Cisco Prime Optical 10.0*
- *Cisco Prime Performance Manager 1.6*

Accessibility Features in Prime Provisioning

For a list of accessibility features in Prime Provisioning, visit Cisco's Voluntary Product Accessibility Template (VPAT) website, or contact accessibility@cisco.com.

- All product documents are accessible except for images, graphics and some charts. If you would like to receive the product documentation in audio format, braille, or large print, contact accessibility@cisco.com.

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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