Cisco Prime Cable Provisioning 6.1 Release Notes

March 27, 2018

Introduction

Cisco Prime Cable Provisioning, referred to as Prime Cable Provisioning throughout this document, automates the tasks of provisioning and managing customer premises equipment (CPE) in a broadband service-provider network. The application provides a simple and easy way to deploy high-speed data, voice technology, and home networking devices.

Prime Cable Provisioning can be scaled to suit networks of virtually any size, even those deploying millions of devices. It also offers high availability, made possible by its distributed architecture with centralized management.

Prime Cable Provisioning incorporates support for many technologies to provide provisioning services for your network. These technologies include:

- DOCSIS high-speed data
- PacketCable voice service, both Secure and Basic work flows
- Non-secure CableHome
- Open Cable Set top box
- eRouter 1.0
- DPoE (DOCSIS Provisioning of EPON) 2.0
- RPD

For detailed information about Prime Cable Provisioning features, see the *Cisco Prime Cable Provisioning User Guide 6.1*.

Important Points to Know Before You Begin

- Before installing PCP 6.1, please check the system requirements mentioned in the *Cisco Prime Cable Provisioning Quick Start Guide 6.1* are met.
- If you are migrating from an earlier version of Cisco PCP or BAC to Cisco PCP 6.1, you must review the Release Notes that were published across the releases.

- License acquired for Cisco PCP 5.x or earlier releases is not valid for Cisco PCP 6.1. You need to get the permanent or evaluation license of 6.0 to upgrade from 4.2.x/5.0/5.1/5.2/5.3/6.0 to 6.1 or for a fresh installation. For more information, refer to **Licensing Prime Cable Provisioning** section in *Cisco Prime Cable Provisioning Quick Start Guide 6.1*.

- From PCP 6.0 release, the PCP does not support the Solaris operating system platform. The Solaris operating system was supported through the PCP 5.3.x releases and the last release that supported the Solaris operating system was PCP 5.3.2.1.

New Features and Enhancements

This release Cisco Prime Cable Provisioning 6.1, supports the following new features:

- Remote SNMP Reset Support
- Live DB Compaction Tool
- DHCP/DPE Health Check over IPv6
- Red Hat Enterprise Linux and CentOS 7.4 Support for RDU HA Libraries
- Restrict number of CPEs behind CM
- Mapping IPDevice DHCP Options to Prime Cable Provisioning Properties

Remote SNMP Reset Support

The default device SNMP reset (Activation) is done by RDU by using disruption extensions. The device disruption implementation sends a SNMP set message from RDU to the device.

Prime Cable Provisioning 6.1 supports remote SNMP reset, in which the device remote SNMP reset request can be sent from DPE rather than RDU. During reset operation, RDU sends a reset request to DPE and in turn, DPE sends SNMP set to device.

You can enable or disable device remote SNMP reset through DPE feature from either the Admin UI or using the API.

Excluding DPEs from Reset Operation

When the Remote SNMP Reset feature is enabled for a PG, RDU will send the reset request to one of the available DPEs (based on MAC/DUID based affinity) in the PG during a device reset operation. However, user can set an exclusion list of DPEs, so that the RDU will not send the reset requests to those DPE(s).

Default SNMP Version for Cable Modem Reset

The Cable Modem reset is done using SNMP version, by default 1, whereas users can configure to use the SNMP v2c for Cable Modem reset.

Live DB Compaction Tool

The Live DB Compaction feature is used to compress the RDU database without stopping the RDU. The **configureDbCompaction.sh** tool can be used for this purpose.

Prior to Prime Cable Provisioning 6.1, the offline DB compaction was supported. For the compaction procedure to work, RDU server has to be shut down. Since this offline compaction procedure necessitates a long downtime for the RDU server, the live compaction of RDU Berkeley DB which will avoid the downtime of the RDU server is supported in Prime Cable Provisioning 6.1.

DHCP/DPE Health Check over IPv6

Prime Cable Provisioning 6.1 has enabled the IPv6 mode of communication between CNR-EP and DPEs, which allows the user to configure the IPv6 address for the interfaces used for DHCP/DPE health check. It also ensures the CNR-EP to select the best available DPE for IPv6 device provisioning requests.

Red Hat Enterprise Linux and CentOS 7.4 Support for RDU HA Libraries

In this release, the RDU HA (High Availability) libraries are enhanced to support RHEL 7.4 or CentOS 7.4 using x86_64 bit hardware system with kernel(3.10.0.693.11.6) on both the servers.

Restrict number of CPEs behind CM

In addition to giving warning on CPE addition behind cable modem using the property (**/rdu/log/cpeCountOnUpdate/enable**), Prime Cable Provisioning 6.1 also provides restriction property (**/rdu/cpe/restrict/enable**) to restrict CPE behind cable modem when the device count exceeds the threshold value that is set using **/rdu/log/cpe/threshold** in **rdu.properties** file.

Mapping IPDevice DHCP Options to Prime Cable Provisioning Properties

In Prime Cable Provisioning 6.1, the DNS property (**/IPDevice/dns/servers**) is added which adds domain-name-servers option to the device while provisioning. This DNS property can be used for all the types of devices and the IP address can be given in clear text using Admin UI or API.

Database Schema Changes

There are no new schema changes in PCP 6.1.

Prime Cable Provisioning 6.1 Bugs

For more information on a specific bug or to search all bugs in a particular Prime Cable Provisioning release, see Using the Bug Toolkit.

This section contains:

- Resolved Bugs, page 4
- Open Bugs, page 4
- Using the Bug Toolkit, page 4

Resolved Bugs

Table 1   ***Resolved Bug List in** Prime Cable Provisioning 6.1.*

Bug ID	Description
CSCvg06334	Error seen during upgrade when different back up location is provided
CSCvg23961	bprAgent fails to start if you execute the script enableRemoteMonitor.sh
CSCvh52703	Lease Query fails when device with multiple Ip-address is on multiple links and CLT_TIME is absent
CSCvg78002	"Change Password" page redirects to https even when redirectToHttps is set to false

Open Bugs

Table 2   ***Open Bug List in** Prime Cable Provisioning 6.1.*

Bug ID	Description
CSCuj50130	Inappropriate error message displayed when CNR DPE connection fails.
CSCtz25409	The generated template/Groovy file needs manual editing to work
CSCti60751	Many PCs behind one modem cause DPE to drop connection from RDU
CSCuj14349	GetRDUDetails API is not working in RDU HA set up
CSCue27542	Configuration generated twice for each device when default COS modified
CSCuw37810	No error shown in ModifyDevice without domain when fqdn auto gen enabled
CSCul50928	API client connection timeout causing RDU max user session exceeded
CSCub63596	WS-I Compliance check is needed

Using the Bug Toolkit

This section explains how to use the Bug Toolkit to search for a specific bug or to search for all bugs in a release.

Step 1   Go to Cisco Bug Search Tool.

Step 2   At the Log In screen, enter your registered Cisco.com user name and password; then, click Log In. The Bug Search Tool page opens.

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Note   If you do not have a Cisco.com user name and password, you can register for them at https://idreg.cloudapps.cisco.com/idreg/register.do.

Step 3   To search for a specific bug, enter the bug ID or keywords in the Search for field, and click Go.

Step 4   To search for bugs in the current release, specify the following criteria:

• Select Product —**Series/Model**

- Select Product Name—**Cisco Broadband Access Center for Telco and Wireless**

  Note Do not enter Cisco Prime Cable Provisioning. Cisco Prime Cable Provisioning is the new product name for the former Cisco Broadband Access Center. At this time, the Bug Search Tool does not accept Cisco Prime Cable Provisioning as the product name.

- Select Releases—Affecting or Fixed in this Release.
- Product Version—Enter 6.1

  Step 5 Click on the page. The Bug Search Tool displays the list of bugs based on the specified search criteria.

  Note For example, if a bug applies to multiple releases, the headline and Release-note enclosure contain the earlier Cisco PCP product terminology.

  Step 6 To export the results to a spreadsheet:

1. In the results section of the page, click **Export Results to Excel**.

2. All bugs retrieved by the search are exported in to a spreadsheet and downloaded locally.
If you cannot export the spreadsheet, log into the Technical Support website at
http://www.cisco.com/cisco/web/support/index.html or contact the Cisco Technical Assistance Center (TAC).

  Note For more details about how to use Cisco Bug Search Tool, see
  https://www.cisco.com/web/applicat/cbsshelp/help.html

Product Documentation

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

See the Cisco Prime Cable Provisioning Documentation Overview for the list of Prime Cable Provisioning guides.

Related Documentation

See the Cisco Prime Network Registrar Documentation Overview for the list of Cisco Prime Network Registrar guides.

See the Prime Cable Provisioning Upgrade Matrix for the upgrade compatibility of the current release with the previous releases.

See the Prime Cable Provisioning Compatibility Matrix for the PNR, PG and API compatibility of the current release with the previous releases.

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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