Cisco Prime Cable Provisioning 5.3 Release Notes

June 10, 2016

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)

For detailed information about Prime Cable Provisioning features, see the *Cisco Prime Cable Provisioning User Guide 5.3*.

Important Points to Know Before You Begin

- Before installing PCP 5.3, please check the system requirements mentioned in the *Cisco Prime Cable Provisioning Quick Start Guide 5.3* are met.
- If you are migrating from an earlier version of Cisco PCP or BAC to Cisco PCP 5.3, 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 5.3. You need to get the permanent or evaluation license of 5.3 to upgrade from 4.2.x/5.0/5.1/5.2 to 5.3 or for a fresh installation. For more information, refer to **Licensing Prime Cable Provisioning** section in *Cisco Prime Cable Provisioning Quick Start Guide 5.3*.

- Solaris operating system support will be included in all Cisco PCP 5.3.x releases. The 5.3.x release train is the last version of PCP which will be released for Solaris. Future major releases of PCP will not be supported on the Solaris operating system.

- In PCP 5.3 release, a fix for weak ephemeral Diffie-Hellman public key is provided. If you had already added ciphers as a workaround in the previous release, you need to remove it first from the server.xml before upgrading to PCP 5.3. For more information, refer to *CSCuy44865* in CDETS.

New Features and Enhancements

This release Cisco Prime Cable Provisioning 5.3, supports the following new features:

DPoE 2.0 Feature Support

From 5.3 release, PCP additionally supports DPoE 2.0. This intensifies DPoE 1.0 specifications to provide requirements for additional service capabilities and corresponding provisioning and network management capabilities. This simplifies the provisioning of complex network-wide services.

RDU Resiliency Improvements

PCP 5.3 introduces batch processing optimizations and allows the RDU to operate efficiently during specific negative scenarios using the below enhancements.

Enhanced RDU Batch Processing Using Timeout Value

From 5.3 release, the timeout value configured by the API client is sent to the RDU for enhanced processing of the batches that stays on the batch processing queue for longer time period. The RDU validates the timeout value of read-only batches and executes only the batches that are not timed-out.

Dedicated Queue for Lease Query Batches

PCP 5.3 release introduces a dedicated batch processing queue to handle batches with Lease Query request. This feature allows the RDU to efficiently process all other client batches without disruption. The RDU is no more blocked from handling other batch requests during network glitches or when there is a communication issue between the RDU and DHCP servers.

Minimizing Non-Concurrency

Earlier, the DPE was registering with RDU in non-concurrent mode eventually suspending all the client batches from being executed. In PCP 5.3 release, the optimization of the DPE to RDU registration process, minimizes the event of non-concurrency. For instance, during a network outage, or glitch, or any other negative scenario, the DPEs would reconnect with the RDU seamlessly without entering into non-concurrent mode. This allows the RDU to continue processing all incoming batches without entering into non-concurrent mode.

Database Schema Changes

There are no new schema changes in PCP 5.3.

Prime Cable Provisioning 5.3 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

Table 1 *Resolved bug list in Prime Cable Provisioning 5.3.*

Bug ID	Description
CSCur78193	Poodle SSL bug vulnerability.
CSCuv42127	DHCP Option 82.9 not parsed when it contains multiple enterprise number.
CSCuw23815	Provide a Device detection extension to detect eRouter as Computer.
CSCuv23343	RDU restarts when more files added and total size of files around 3.5GB.
CSCux20336	changeSSLProperties.sh is not working when adminui argument is specified.
CSCux29547	VerifyDb proposes unexpected optimization on ProvGroup_NumericId.
CSCux70249	DPE TFTP IP validation is not working for IPv6 eDVA devices.
CSCuu74639	Parallel device deletion is affecting the DPE synchronization.
CSCuw31273	runCfgUtil.sh throws Exception, when converting binary file to groovy.
CSCuv77768	Export tool is exporting unwanted COS, DHCP criteria and other resources.
CSCuv68823	Duplicate lease entries are listed in getAllForIPAddress API response.
CSCuv75854	Device count mismatch is seen in DB statistics result after import to DB.
CSCuw80867	Export tool should export the supported DB version.
CSCuo88725	BAC diagnostic scripts require modifications/additions.
CSCut94918	Incomplete uninstallation of CNR-EP
CSCux73969	Export Tool not exporting Promiscuous mode DHCP Criteria.
CSCux97510	RDU logs need to be enhanced to differentiate getDetails without LQ.
CSCux91522	RDU_BUSY log message to be updated with the proper reason that the batch queue is full.
CSCux23637	Additional logs needed when DPE event queue grows beyond threshold level.
CSCux20029	DPE startup should handle the sync control file (control.dat) corruption.
CSCtj60106	Inconsistent results occur when performing RDU Device Search.
CSCtq14533	IPv4 lease query handler issue in RDU logs.
CSCuy44865	After upgrade, 5.3 adminui is not supported in Chrome and Firefox.

Open Bugs

Table 2   ***Open Bug List in Prime Cable Provisioning 5.3.***

Bug ID	Description
CSCub67891	Access denied exception is not thrown when using getAllMatchingFiles.
CSCue66152	RDU shows high CPU utilization when SSL client tries to reconnect.
CSCue88789	NPE stack trace is seen in RDU log when certificate expires or when the keystore value is empty.
CSCuc32208	Fine-grain privilege level check is not done for RDU Events.
CSCtz25409	The generated template/Groovy file needs manual editing to work.
CSCud81568	Invalid Property error is displayed when RDU is misconfigured.
CSCud40680	Async Support of get operation is required for pollOperation.
CSCti60751	Many PCs behind one modem cause DPE to drop connection from RDU.
CSCtj30159	RunRecoveryException is thrown while restoring the database using relative path.
CSCtl44226	Stack Trace is present in RDU/DPE log after rebooting server.
CSCtq15061	MTA FQDN auto generate does not require domain for some API calls.
CSCtq90931	Usage (-help option) is not available for some of the scripts in DPE.
CSCui73397	With IE browser, it is not possible to view the last CRS Request record in the queue.
CSCui93423	Mixed Mode is not supported for PacketCable, when IPv6 interface is enabled.
CSCuh16164	IPv6-PacketCable2.0 is not disabled in UI even if it is disabled in DPE.
CSCuj14349	GetRDUDetails API is not working in RDU HA set up.
CSCui71019	GetRDUDefaults shouldn't show CRS info with no prop_read and crs_read.
CSCuj09659	DPE is trying to connect to RDU in local host when DNS is misconfigured.
CSCue27542	Configuration generated twice for each device when default COS is modified.
CSCuj04407	RDU runs OutOfMemory when IPDevice.searchDevice with propertiesToRetrive.
CSCuj36832	Unable to change security domain for a few filetypes in Modify File page.
CSCuj43822	Remove api folder after DPE/CNR-EP/KDC components are installed.
CSCuw37810	No error shown in ModifyDevice without domain when fqdn auto gen enabled.
CSCuu50926	Remove restart message during PCP upgrade.
CSCuj50130	Incorrect error message displays when CNR DPE connection fails.
CSCul50928	In RDU, user session limit exceeds due to API client connection timeout.
CSCuw94416	Improve documentation to clarify references of the CM as "relay agent".
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 Software Bug Toolkit.

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

> **Note** If you do not have a Cisco.com user name and password, you can register for them at http://tools.cisco.com/RPF/ register/register.do.

Step 3 To search for a specific bug, click the Search Bugs tab, enter the bug ID in the Search for Bug ID field, and click Go.

Step 4 To search for bugs in the current release, click the **Search Bugs** tab and specify the following criteria:

- Select Product Category—**Network Management and Automation**.
- Select Product—**Prime Cable Provisioning**

> **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 Toolkit does not accept Cisco Prime Cable Provisioning as the product name.

- Software Version —**[Product Version]**.
- Search for Keyword(s)—Separate search phrases with boolean expressions (AND, NOT, OR) to search within the bug title and details.
- Advanced Options—You can either perform a search using the default search criteria or define custom criteria for an advanced search. To customize the advanced search, click **Use custom settings for severity, status, and others** and specify the following information:
  - Severity—Choose the severity level.
  - Status—Choose Terminated, Open, or Fixed.
    - Choose **Terminated** to view terminated bugs. To filter terminated bugs, uncheck the Terminated check box and select the appropriate sub option (Closed, Junked, or Unreproducible) that appears below the Terminated check box. Select multiple options as required.
    - Choose **Open** to view all open bugs. To filter the open bugs, uncheck the Open check box and select the appropriate suboptions that appear below the Open check box. For example, if you want to view only new bugs in Prime Cable Provisioning 5.3, choose only **New.**
    - Choose **Fixed** to view fixed bugs. To filter fixed bugs, uncheck the Fixed check box and select the appropriate sub option (Resolved or Verified) that appears below the Fixed check box.

- Advanced—Check the **Show only bugs containing bug details** check box to view only those bugs that contain detailed information, such as symptoms and workarounds.
- Modified Date—Choose this option to filter bugs based on the date when the bugs were last modified.
- Results Displayed Per Page—Specify the number of bugs to display per page.

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

> **Note** For example, if a bug applies to both Cisco Prime Cable Provisioning 5.1 and Cisco Prime Cable Provisioning 5.2, 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 Search Bugs tab, click **Export All to Spreadsheet**.

2. Specify the filename and location at which to save the spreadsheet.

3. Click **Save**. All bugs retrieved by the search are exported.

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).

Product Documentation

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

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

See the Prime Cable Provisioning and Prime Network Registrar Compatibility Matrix for the compatibility of the current release with Prime Network Registrar.

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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