Cisco Prime Access Registrar 8.0 Release Notes

Cisco Prime Access Registrar (Prime Access Registrar) is a high performance, carrier class, 3GPP-compliant, 64-bit RADIUS/Diameter solution that provides scalable, flexible, intelligent authentication, authorization, and accounting (AAA) services.

Prime Access Registrar comprises a RADIUS/Diameter server designed from the ground up for performance, scalability, and extensibility for deployment in complex service provider environments including integration with external data stores and systems. Session and resource management tools track user sessions and allocate dynamic resources to support new subscriber service introductions.

Note Prime Access Registrar can be used with Red Hat Enterprise Linux (RHEL) 6.6/7.0/7.2 and CentOS 6.5 64-bit operating systems using kernel and Glibc.

Contents

This release note contains the following sections:

System Requirements

This section describes the system requirements to install and use the Prime Access Registrar software.

Table 1 lists the system requirements for Prime Access Registrar 8.0.

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Table 1 Minimum Hardware and Software Requirements for Prime Access Registrar Server

OS version	RHEL 6.6/7.0/7.2 CentOS 6.5
Model	X86
CPU type	Intel Xeon CPU 2.30 GHz
CPU Number	4
CPU speed	2.30 GHz
Memory (RAM)	8 GB
Swap space	10 GB
Disk space	1*146 GB

Prime Access Registrar supports JDK versions 1.7 and 1.8 from release 7.3 onwards. Also, Apache Tomcat version has been upgraded to 8.5.16.

Co-Existence With Other Network Management Applications

To achieve optimal performance, Prime Access Registrar should be the only application running on a given server. In certain cases, when you choose to run collaborative applications such as a SNMP agent, you must configure Prime Access Registrar to avoid UDP port conflicts. The most common conflicts occur when other applications also use ports 2785 and 2786. For more information on SNMP configuration, see the “Configuring SNMP” section in the “Configuring Cisco Prime Access Registrar” chapter of the *Cisco Prime Access Registrar 8.0 Administrator Guide*.

New and Enhanced Features in Cisco Prime Access Registrar 8.0

Cisco Prime Access Registrar 8.0 provides the following features:

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Smart Licensing in Prime Access Registrar

Smart Licensing is a cloud-based approach to licensing. Cisco Smart Software Licensing helps you to procure, deploy, and manage licenses easily where devices self-register and report license consumption, removing the need for product activation keys (PAKs). It pools license entitlements in a single account and allows you to move licenses freely through the network, wherever you need them.

The licenses that you have purchased are maintained in a centralized database called the Cisco Smart Software Manager (CSSM). Applications will report their license usage to a Smart Agent (SA) which will then use Call Home to report the usage to the CSSM. For more information, refer to https://software.cisco.com.

The licenses purchased in CSSM must be added into Prime Access Register using a set of licensing commands.

Smart Licensing in Cisco Prime Access Registrar

Prime Access Registrar provides a CLI option to enable smart licensing during the regular installation workflow.

If you choose not to proceed with Smart Licensing, you can proceed with the traditional installation workflow.

For detailed information about Smart Licensing in Prime Access Registrar, refer to the *Cisco Prime Access Registrar 8.0 Installation Guide*.

RADIUS-Over-TLS Support

Prime Access Registrar supports configuring client of type RADIUS-TLS (RADIUS-over-TLS). This feature will enable a client to send RADIUS requests using TLS connections. The RADIUS-TLS client proxies the incoming packets to other servers using RADIUS UDP.

You can configure maximum number of TLS connections allowed for the client and provide TLS and TCP options.

The GUI and CLI are updated with these new parameters to support this functionality. For more details, refer to the *Cisco Prime Access Registrar 8.0 User Guide*.

Enhancements in Cisco Prime Access Registrar 8.0

This section contains the following topics:

Extended-EAP Support

Extended-EAP is used as an authorization service to retrieve authorization information from a remote web server using the REST interface. Prime Access Registrar processes all EAP requests, and extends the process through extended EAP service. Extended-EAP service is supported for the following EAP protocols:

- EAP-AKA
- EAP-AKA-Prime
- EAP-SIM

You can configure an extended-EAP service under /Radius/Services. When you define an extended-EAP service under /Radius/Services, you must set the service type to **extended-eap**. You must also configure a REST remote server for an extended-EAP service.

The GUI and CLI are updated with these new parameters to support this functionality. For more details about configuring an extended-EAP service and a REST remote server, refer to the *Cisco Prime Access Registrar 8.0 User Guide*.

RADIUS-Diameter Translation Service Enhancement

Prime Access Registrar supports CoA and PoD translation to Re-Auth-Request (RAR) / Abort-Session-Request (ASR), which is triggered directly to Diameter client without any DRA. You can configure the **SendRAR-ASRToClient** parameter as TRUE in the translation service so that the COA/POD packets received by Prime Access Registrar can be translated and sent as RAR/ASR. You can also configure a Diameter client to which the packet needs to be sent using the host name of the client in the translation service.

Note Client host name can be acquired from the session, if session manager is configured.

The GUI and CLI are updated with these new parameters to support this functionality. For more details, refer to the *Cisco Prime Access Registrar 8.0 User Guide*.

DWR Enhancement

Apart from disconnection based on DWR, Prime Access Registrar is enhanced to allow disconnection of remote server connections based on a threshold value. This threshold value indicates the number of failed requests that are not answered even after MaxTries is reached for each of those request.

The GUI and CLI are updated with these new parameters to support this functionality. For more details, refer to the *Cisco Prime Access Registrar 8.0 User Guide*.

User Logging Enhancement

Prime Access Registrar provides an option to store all subscriber message details including Diameter request and response in a separate log file called Subscriber_log under $INSTALLPATH/logs folder. To log subscriber data for a selected Diameter client or remote server, you must set the **UserLogEnabled** parameter to True.

The GUI and CLI are updated with the new parameter to support this functionality. For more details, refer to the *Cisco Prime Access Registrar 8.0 User Guide*.

Cisco Prime Access Registrar 8.0 Bugs

For information on a specific bug or to search all bugs in a particular Prime Access Registrar release, see Using the Bug Search Tool.

Using the Bug Search Tool

Use the Bug Search tool (BST) to get the latest information about Cisco Prime Access Registrar bugs. BST allows partners and customers to search for software bugs based on product, release, and keyword, and it aggregates key data such as bug details, product, and version.

BST allows you to:

- Quickly scan bug content
- Configure e-mail notifications for updates on selected bugs
- Start or join community discussions about bugs
- Save your search criteria so you can use it later

When you open the Bug Search page, check the interactive tour to familiarize yourself with these and other Bug Search features.

Step 1 Log into the Bug Search Tool.

a. Go to https://tools.cisco.com/bugsearch.

b. At the Log In screen, enter your registered Cisco.com username and password; then, click **Log In**. The Bug Search page opens.

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

Step 2 To search for a specific bug, enter the bug ID in the Search For field and press **Return**.

Step 3 To search for bugs in a particular release:

a. In the Search For field, enter the product name and the release version, e.g. Cisco Prime Access Registrar 8.0, and press **Return**. (Leave the other fields empty.)

b. When the search results are displayed, use the filter and sort tools to find the types of bugs you are looking for. You can search for bugs by severity, by status, how recently they were modified, according to the number of support cases associated with them, and so forth.

Related Documentation

For a complete list of Cisco Prime Access Registrar 8.0 documentation, see the *Cisco Prime Access Registrar 8.0 Documentation Overview*.

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

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