Oracle® Communications
Policy Management Release Notes

Release 12.5.2

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Oracle Communications Policy Management Release Notes, Release 12.5.2

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Contents

List of Tables

1
Introduction

These release notes identify the functions and features of Oracle Communications Policy Management which include:

- Feature descriptions
- Supported hardware baseline
- Software and documentation
- Supported upgrade paths
- Compatibility
- Resolved bugs
- Customer-known bugs

Directions for accessing key Oracle sites and services are also identified in the Oracle References and Services.

Release notes are available on Oracle Help Center and are made available for every software release.

2
Enhancements Descriptions

This release of Oracle Communications Policy Management adds the enhancements described in this chapter.

Policy and Charging Rules Function (PCRF)

The Oracle Communications Cloud Native Policy and Charging Rules Function (PCRF) solution incorporates new architecture with spring micro-service framework as backend support technology stack and Kubernetes Cloud Native Environment as running environment. The PCRF core service is the main functionality among PCRF micro services with the following enhancements when compared to legacy PCRF:

- Remove the MIA module from MPE, and let the MPE talks to with configuration server to save/load related data

- PCRF core service have integrated the MPE functionalities which are under legacy PCRF

- When PCRF Core needs to talk with any data source, these traffic shall go with the Diameter connector rather than from the PCRF core itself

For more information, see *Oracle Communications Policy and Charging Rules Function User's Guide*.

3
Software and Documentation

Oracle Communications Policy Management software is available for download on the Oracle software delivery website. Documentation is delivered electronically on Oracle Help Center. Both the software and the documentation are listed in this section.

Software

All components are available for download from the software delivery website.

Documentation

All documents available for download from Oracle Help Center (http://%20docs.oracle.com/en/ industries/communications).

> **Note:**
>
> This list is accurate at the time of release but is subject to change. See Oracle Help Center for all available documents.

- Policy and Charging Rules Function Cloud Native Installation and Upgrade Guide
- Policy and Charging Rules Function Cloud Native User's Guide

4
Supported Hardware Baseline

The hardware identified in Supported Hardware Baseline comprises the hardware and server versions that have been verified with this release.

Supported Hardware Baseline

Table 4-1   Supported Hardware Baseline

Hardware	Description
HP Gen 10	Rackmount and C-Class servers configured as defined in the configuration workbook.

The firmware components are software that is installed on the hardware. These components are listed in the Firmware Release Notice:http://docs.oracle.com/cd/E57832_01/index.htm.

5
Resolved and Known Bugs

This chapter lists the resolved and known bugs for this release of Oracle Communications Policy Management.

These bug lists are distributed to customers with a new software release at the time of general availability (GA) and are updated for each maintenance release.

Severity Definitions

The resolved and known bug tables in this document refer to bug severity levels listed in this section. Definitions of these levels can be found in the publication *TL 9000 Quality Management System Measurement Handbook*.

> **Note:**
>
> A problem report is a report from a customer or on behalf of the customer concerning a product or process defect requesting an investigation of the issue and a resolution to remove the cause. The report may be issued via any medium. Problem reports are systemic deficiencies with hardware, software, documentation, delivery, billing, invoicing, servicing, or any other process involved with the acquisition, operation, or performance of a product. An incident reported simply to request help to bring back the service or functionality to normal without the intent to investigate and provide a resolution to the cause of the incident is not a problem report.

- Critical: Conditions that severely affect the primary functionality of the product and, because of the business impact to the customer, requires non-stop immediate corrective action, regardless of time of day or day of the week as viewed by a customer on discussion with the organization such as the following:

  1. Product inoperability (total or partial outage)

  2. A reduction in the traffic/data handling capability, such that expected loads cannot be handled

  3. Any loss of emergency capability (for example, emergency 911 calls)

  4. Safety hazard or risk of security breach

- Major: Product is usable, but a condition exists that seriously degrades the product operation, maintenance, or administration, etc., and requires attention during pre-defined standard hours to resolve the situation. The urgency is less than in critical situations because of a lesser immediate or impending effect on product performance, customers, and the customer's operation and revenue such as the following:

  1. Reduction in the product's capacity (but still able to handle the expected load)

  2. Any loss of administrative or maintenance visibility of the product and/or diagnostic capability

  3. Repeated degradation of an essential component or function

4. Degradation of the product's ability to provide any required notification of malfunction

- Minor: Other problems of a lesser severity than Critical or Major such as conditions that have little or no impairment on the function of the system.

- Minor: No Loss of Service. Oracle severity is outside what is defined by TL 9000.

The numbered severity levels in the tables below correspond to these definitions:

- 1 - Critical

- 2 - Major

- 3 - Minor

- 4 - Minor: No Loss of Service.
  Oracle severity is outside what is defined by TL 9000.

Customer-Known Bugs

Below table lists customer-known bugs in this release:

> **Note:**
>
> Resolved bugs are sorted in ascending order by severity and then by bug number.

Table 5-1   Oracle Communications Policy Management 12.5.2 Customer-Known Bugs

Sev	Bug Number	Title	Impact Statement	Work Around
2	29852278	Diameter-Gw can not route diameter messages to cores if multiple replicas	Only 1 connection is established from diameter-gw pod and core pod, even multiple core pods are created. For high TPS, the other core will not take any traffics.	
2	29864482	Pcc rules configured on CM cause core hung	Configuring the pcc rule on CM will cause core service hung, so PCC rule will not be configured and installed in Gx session.	
2	29864649	Sy connection can not be established to OCS server	Sy datasource and service are not available.	
3	29859340	MPE receives CCA-U 3002 from MRA 3 seconds later after CCR-U	The diameter id/realm for core service are hard coded.	The workaround is to connect to diameter-gw.
3	29859354	Name display wrongly on CM service for Data Sources or custom vendor	New configured items on CM are incorrectly displayed.	
3	29860071	CCR request hang unless deploying a policy to accept request	Gx init request will be rejected by default unless a policy is deployed to accept all CCR-I.	
3	29864503	Diameter connection is not brought up after diamter-gw/core pod restart	The connections would not automatically recover between diameter-gw and core service unless the peer is restarted.	

6

Oracle References and Services

This chapter describes how to obtain help, where to find related documentation, and provides other general information.

My Oracle Support

My Oracle Support is your initial point of contact for all product support and training needs. A representative at Customer Care Center can assist you with My Oracle Support registration.

Call the My Oracle Support main number at 1-800-223-1711 (toll-free in the US), or call the Oracle Support hotline for your local country from the list at http://www.oracle.com/us/support/contact/index.html. When calling, make the selections in the sequence shown below on the Support telephone menu:

1. Select 2 for New Service Request

2. Select 3 for Hardware, Networking and Solaris Operating System Support

3. Select one of the following options:

   • For Technical issues such as creating a new Service Request (SR), Select 1

   • For Non-technical issues such as registration or assistance with MOS, Select 2

You are connected to a live agent who can assist you with My Oracle Support registration and opening a support ticket.

My Oracle Support is available 24 hours a day, 7 days a week, 365 days a year.

Emergency Response

In the event of a critical service situation, emergency response is offered by the Customer Access Support main number at 1-800-223-1711 (toll-free in the US), or by calling the Oracle Support hotline for your local country from the list at http://www.oracle.com/us/support/contact/index.html. The emergency response provides immediate coverage, automatic escalation, and other features to ensure that the critical situation is resolved as rapidly as possible.

A critical situation is defined as a problem with the installed equipment that severely affects service, traffic, or maintenance capabilities, and requires immediate corrective action. Critical situations affect service and/or system operation resulting in one or several of these situations:

• A total system failure that results in loss of all transaction processing capability

• Significant reduction in system capacity or traffic handling capability

• Loss of the system's ability to perform automatic system reconfiguration

• Inability to restart a processor or the system

• Corruption of system databases that requires service affecting corrective actions

• Loss of access for maintenance or recovery operations

- Loss of the system ability to provide any required critical or major trouble notification

Any other problem severely affecting service, capacity/traffic, billing, and maintenance capabilities may be defined as critical by prior discussion and agreement with Oracle.

Customer Training

Oracle University offers training for service providers and enterprises. Visit our web site to view, and register for, Oracle Communications training:

http://education.oracle.com/communication

To obtain contact phone numbers for countries or regions, visit the Oracle University Education web site:

www.oracle.com/education/contacts

Locate Product Documentation on the Oracle Help Center Site

Oracle Communications customer documentation is available on the web at the Oracle Help Center site, http://docs.oracle.com/. You do not have to register to access these documents. Viewing these files requires Adobe Acrobat Reader, which can be downloaded at http://www.adobe.com.

1. Access the Oracle Help Center site at http://docs.oracle.com/.

2. Click `Industries`.

3. Under the Oracle Communications subheading, click the `Oracle Communications documentation` link.

   The Communications Documentation page opens. Policy Management is listed in the Network Session Delivery and Control Infrastructure section.

4. Click **Policy Management** and then the release number.

   A list of the documentation set for the release displays.

5. To download a document, click (download icon) and then click **PDF**.

Locate Product Release Software on the Oracle Software Delivery Cloud Site

Oracle Communications software is available for electronic download at the Oracle Software Delivery Cloud site, https://edelivery.oracle.com. Only authorized customers with a valid password may download software from the site.

For directions on downloading the software and other information about using this site, click **FAQ** in the top right corner.