

Policy Management

Release Notes



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1

Introduction

This document provides information about new features and enhancements to the existing features for , and includes:

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

Directions for accessing key 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.

Disclaimer

Before installing third-party software on the same server with Oracle products (for example, DSR, PCRF, UDR, PIC, EAGLE and so on), please be aware of the following information:

- Oracle is not responsible for installation, operation, maintenance, etc. of any non-Oracle distributed software with Oracle products (for example, DSR, PCRF, UDR, PIC, EAGLE and so on).
- Additional due diligence including testing is recommended to be performed in the lab before deploying non-Oracle software on production sites to avoid potential issues.
- Oracle is not responsible for validating or integrating non-Oracle software with Oracle products (for example, DSR, PCRF, UDR, PIC, EAGLE and so on). Additionally, persistence of the non-Oracle software over upgrade of the Oracle product may or may not occur, and Oracle does not guarantee the non-Oracle software will persist.
- Oracle Support may require that the customer uninstall the non-Oracle software and reinstall Oracle products (for example, DSR, PCRF, UDR, PIC, EAGLE and so on) to recover the system to address a field issue.

2

Enhancement Descriptions

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

Enh 39868819 - Enhanced High-Availability Role Visibility

OCPM 15.1 introduces hierarchical high-availability role of each CMP, MPE, and MRA server - Hier Role.

This is displayed in Topology Settings, Cluster Information reports, and Upgrade Manager. The displayed role provides a clearer view of each server's position within the HA hierarchy and its relationship to the active and standby sites. This improves operational awareness during day-to-day monitoring and assists operators in validating server roles before and after maintenance, upgrade, promotion/demotion, and failover activities.

The Hier Role is displayed as two abbreviated role components separated by a slash (/). The first component identifies the site role, and the second component identifies the node role within that site.

For the CMP configurations covered by this guide, the Hier Role maps to the existing Server Status as follows:

Table 2-1 Mapping of Hier Role with Server Status

Hier Role	Site Role	Node Role	Server Status
Act/Act	Active	Active	Active
Act/Stb	Active	Standby	Standby
Stb/Act	Standby	Active	Spare
Stb/Stb	Standby	Standby	Spare
OOS/OOS	OOS	OOS	OOS

Enh 39868846 - Site-Level Forced Standby for Geo-Redundant Deployments

OCPM 15.1 enhances existing Forced Standby feature scope to support of site-level Forced standby for geo-redundant deployments. When all configured servers at a site are placed in forced standby, OCPM treats the site as standby for the relevant cluster group.

This supports controlled movement of active service to a viable peer site for planned maintenance, while retaining the servers as members of the cluster.

3

Software and Documentation

software is available for download on the software delivery website. Documentation is delivered electronically on [Oracle Help Center](#). Both the software and the documentation are listed in this section.

3.1 Software

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

Note

These files are available in the following format:

- BareMetal is not supported from OCPM release 15.0. Only Virtual is supported. Virtual PCRf is tested on the following hypervisor platforms:
 - VMware ESXi 7.0.3
 - KVM QEMU 6.2.0, libvirt 8.0.0
 - OpenStack Yoga
- *.ova for VMware and OLVM deployments
- *.qcow2.tar.bzip2 for OpenStack and KVM deployments

Software

- Oracle Communications Policy Management Configuration Management Platform 15.1.0.0.0_23.1.0
- Oracle Communications Policy Management Multimedia Policy Engine 15.1.0.0.0_23.1.0
- Oracle Communications Policy Management Policy Front End 15.1.0.0.0_23.1.0
- Oracle Communications Tekelec Platform Distribution (TPD) 8.10.1.13.0_150.36.0

This list is accurate at the time of release, but is subject to change. View the Oracle Software Delivery Cloud site for the latest information.

MAC Algorithms

Only the following MAC algorithms are supported from 12.6.0 onwards:

- hmac-sha2-256
- hmac-sha2-512

Packages Removed

The following packages are removed from 12.6.0 and later:

- Telnet

- PHP
- sockperf

nxframe-tool package is removed from 12.6.1.0.0 and later.

Note

The VNF Management/ NF Agent features are not supported and completely removed.

3.2 Documentation

All documents available for download from Oracle Help Center (<http://docs.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.

- Platform Configuration User's Guide
- Configuration Management Platform Wireless User's Guide
- Policy Wizard Reference
- SNMP User's Guide
- OSSI XML Interface Definitions Reference
- Policy Front End User's Guide
- Troubleshooting Reference
- Analytics Data Stream Reference
- Policy Variables Reference
- Network Impact Report
- Software Installation Guide
- Disaster Recovery Guide
- Concepts for Wireless Networks
- ATS Guide
- Licensing Information User Manual

4

Performance Numbers

Below table shows the performance profile and achievement in this release.

Table 4-1 Performance Profile and Achievement

Profile	Performance Achievement
VM (Virtualized) 12 vCPU Generic Call Model	(Hosted on Gen8) 20M bindings for MRA 3M sessions for MPE 24000 TPS per MRA 4000 TPS per MPE
VM (Virtualized) 46 vCPU Generic Call Model	(Hosted on X9-2) 40M bindings for MRA 15M sessions for MPE 91500 TPS per MRA 12500 TPS per MPE
VM (Virtualized) 46 vCPU Custom Call Model	(Hosted on X9-2) 40M bindings for MRA 15M sessions for MPE 64000 TPS per MRA 9000 TPS per MPE
VM (Virtualized) 36 vCPU Generic Call Model	(Hosted on X9-2) 15M sessions for MPE 10000 TPS per MPE

Note

- **Higher CPU Utilization in 15.1**

- OCPM 15.1 meets its validated performance targets on the tested X9-2 hardware configuration.
- Compared with 15.0, 15.1 showed higher CPU utilization in Oracle benchmarking, with the additional increase in CPU consumption approximately 10% for MPE and 5% for MRA from the original values, using the specified Oracle X9-2 hardware configuration and default policy set. Similar, or potentially higher, CPU utilization increase may be observed in customer environments depending on their hardware configuration, traffic profile, and policy use cases.
- Customers should validate CPU utilization against their anticipated production traffic profile in a representative lab environment before upgrading.

- Validation was performed on Oracle X9-2 hardware with NVMe storage. If VMs are deployed on different base hardware, performance may vary.

- For larger-profile VMs, including 36 and 46 vCPU profiles, ensure to enable CPU pinning and CPU affinity for optimal performance.

- Ensure the server runs within a single NUMA node, and use thick pool configurations. For best deployment practices, see **Appendix A** in the *Oracle Communications Policy Management Cloud Installation Guide*.

For 46 vCPU Profile:

- Do not place two MRA VMs on the same KVM host. Preferred pairings on a single KVM host include: CMP + MPE, CMP + MRA, CMP + CMP, MPE + MPE, and MPE + MRA.
- For 46 vCPU MRA clusters, configure the required advanced settings for optimal performance. See **Appendix C** in the *Oracle Communications Policy Management Cloud Installation Guide*.

For 36 vCPU Profile:

- 36 vCPU Profile is only supported for MPE and CMP. Do not place two VMs on the same host for optimal performance.
- For 36 vCPU MPE clusters, configure the required advanced settings for optimal performance. See **Appendix D** in the *Oracle Communications Policy Management Cloud Installation Guide*.

5

Compatibility and Software Upgrade Paths

This chapter provides a compatibility matrix and a table of upgrade paths.

5.1 UDR and Policy Management Compatibility Matrix

The firmware documents are available from Oracle Help Center.

Below table lists which releases of Policy Management are compatible with each release of UDR.

Table 5-1 UDR and Policy Management Compatibility Matrix

UDR Software Release	Compatible Policy Management Software Releases
9.1	9.1, 10.5
9.3	9.1, 10.5, 11.5, 12.1, 12.2
10.0	10.5, 11.5, 12.1
10.2	11.5, 12.1, 12.2
12.1	11.5, 12.1*, 12.2, 12.3, 12.4, 12.5
12.2	12.1, 12.2, 12.3, 12.4, 12.5
12.4	12.1, 12.2, 12.3, 12.4, 12.5, 12.6,12.6.1, 15.0
12.10	12.1, 12.2, 12.3, 12.4 , 12.5, 12.6 ,12.6.1, 15.0
12.11	12.1, 12.2, 12.3, 12.4 , 12.5, 12.6 ,12.6.1, 15.0
15.0	12.6.1.x, 15.0, 15.1
15.1	15.0, 15.1

* If you decide to use the UDR enterprise pools feature in UDR release 12.2, then Policy Management release 12.2 is required. A special upgrade sequence order is required:

1. Upgrade to Policy Management 12.2.
2. Upgrade to UDR 12.2.
3. Upgrade to Policy Management 12.2.2.

After this is complete, the UDR enterprise pools feature can be enabled.

6

Supported Upgrade Paths

This release has been tested for upgrade from specific prior releases; this chapter contains the exact paths for upgrade for the wireless mode. Verify that your current installed release is listed on a valid upgrade paths.

6.1 Supported Upgrade Paths

This release has been tested for upgrade from specific prior releases. This chapter contains the exact paths for upgrade. Verify that your current installed release is listed on a valid upgrade path. The possible upgrade paths to Policy Management 15.1 are listed in [Table 6-1](#).

Table 6-1 Upgrade Paths

From	To	Mechanism
15.0.0.0.0	15.1.0.0.0	ISO Upgrade
15.0.0.1.0	15.1.0.0.0	ISO Upgrade
15.0.0.2.0	15.1.0.0.0	ISO Upgrade
15.0.0.3.0	15.1.0.0.0	ISO Upgrade
15.0.0.4.0	15.1.0.0.0	ISO Upgrade
15.0.0.5.0	15.1.0.0.0	ISO Upgrade
15.0.0.6.0	15.1.0.0.0	ISO Upgrade
15.0.0.7.0	15.1.0.0.0	ISO Upgrade
15.0.0.8.0	15.1.0.0.0	ISO Upgrade
15.0.0.9.0	15.1.0.0.0	ISO Upgrade
15.0.0.10.0	15.1.0.0.0	ISO Upgrade

Note

- It is recommended to upgrade from version 15.0.0.7.0 or later as it requires only minor prerequisite steps to upgrade to 15.1.0.0.0.
- If the official upgrade paths mentioned in the release documents of each supported version is not followed, please contact Oracle Support before upgrading to 15.1.
- When upgrading from versions 15.0.0.0.0 through 15.0.0.6.0, UB Logic must be disabled before proceeding with the upgrade (Disabling UB logic requires server reboot). For detailed instructions, see *Oracle Communications Policy Management Upgrade Guide*.

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.

7.1 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*.

① 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.

7.2 Customer-Known Bugs

Below table lists customer-known bugs in this release:

Table 7-1 Oracle Communications Policy Management Release 15.1 Customer-Known Bugs

Severity	Bug Number	Title	Customer Impact	Work Around
3	39867631	Core file Alarm Detected during upgrade/rollback from OCPM 15.0 to OCPM 15.1.	An Alarm is raised for Core File generated. No functional impact.	The core file needs to be manually removed from the location. The alarm would get cleared automatically once the core file is removed.
3	39868280	During the CMPSite promote/demote operations, the CMP GUI cannot be accessed using the OAM VIPs.	Customer will not be able to access CMP GUI using the OAM VIP. However, they will be able to access the GUI using the active CMP OAM IP.	Restart the vipmgr service of COMCOL on the CMP Site1/2 Active node. Please contact Oracle support for the MOP.
3	39868326	Post rollback from OCPM 15.1 to 15.0, observed "31102: DB replication from a master DB has failed" alarm in secondary site standby CMP and replication to the affected secondary-site standby CMP may be affected.	Replication for the node fails post rollback to 15.0.	Manual reboot is needed on the server where alarm is raised. Post reboot the alarm should get cleared and replication should also start working.
3	39868370	DIU GR Rollback: Post-Rollback Alarms (70503, 70501, 70507, 70500) not cleared	Customer need to clear Alarms manually post rollback	Manual cleanup for Alarm can be done using System Wide Reports → Active Alarms → Press Bin on respective Alarm.

7.3 Resolved Bug Listing

 Note

All bugs reported were fixed in 15.0 patches, from 15.0.0.1.0 to 15.0.0.10.0, are included in OCPM 15.1.0.0.0. Please refer to respective Release notes for more details.

8

Oracle References and Services

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

8.1 My Oracle Support

My Oracle Support (<https://support.oracle.com>) is your initial point of contact for all product support and training needs. A representative at Customer Access Support can assist you with My Oracle Support registration.

Call the Customer Access 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:

- For Technical issues such as creating a new Service Request (SR), select **1**.
- For Non-technical issues such as registration or assistance with My Oracle Support, select **2**.
- For Hardware, Networking and Solaris Operating System Support, select **3**.

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.

8.2 Emergency Response

In the event of a critical service situation, emergency response is offered by the 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 .

8.3 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

8.4 Locate Product Documentation on the Oracle Help Center Site

Oracle Communications customer documentation is available on the web at the site, . 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 site at .
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**.

8.5 Locate Product Release Software on the Oracle Software Delivery Cloud Site

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.