

# Oracle Communications Policy Management Release Notes



Release 12.4.1

E94281-01

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The Oracle logo, consisting of a solid red square with the word "ORACLE" in white, uppercase, sans-serif font centered within it.

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Oracle Communications Policy Management Release Notes, Release 12.4.1

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# 1

## Introduction

This release of Oracle Communications Policy Management is a maintenance release. These release notes identify any added or changed functions and features of Oracle Communications Policy Management which include:

- Enhancement 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 (<http://docs.oracle.com/>) 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.

### Multilevel OAM Support Validation—ER 27603660

This enhancement validates the multi-level OAM functionality in Policy Management Release 12.4.

# 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 (<http://www.oracle.com/us/support/software/premier/my-oracle-support-068523.html>).

 **Note:**

These files are available in one or more of the following formats:

- \*.iso: for bare metal deployments
- \*.ova: for VMware and OVM/OVS deployments
- \*.qcow2: for KVM/Openstack deployments

Software:

- Oracle Communications Policy Management Configuration Management Platform 12.4.1.0.0\_21.1.0
- Oracle Communications Policy Management Multimedia Policy Engine 12.4.1.0.0\_21.1.0
- Oracle Communications Policy Management Policy Front End 12.4.1.0.0\_21.1.0
- Oracle Communications Policy Management Mediation Server 12.4.1.0.0\_21.1.0
- Oracle Communications Tekelec Virtual Operating Environment (TVOE) 3.5.0.0.0\_88.46.0
- Oracle Communications Tekelec Platform Distribution (TPD) 7.5.0.0.0\_88.46.0
- Oracle Communications Tekelec Platform Management and Configuration (PM&C) 6.5.0.0.0-65.11.0

 **Note:**

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.



# 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
- Mediation Server User's Guide
- Troubleshooting Reference
- Analytics Data Stream Reference
- Policy Variables Reference
- Network Impact Report
- Virtual Network Function Overview and Direction
- Cloud Installation Guide
- Software Installation Guide
- 12.2.x/12.3.x to 12.4 Upgrade Procedures
- Disaster Recovery Guide
- Concepts for Wireless Networks
- Licensing Information User Manual

# 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 8/8+        | Rackmount and C-Class servers configured as defined in the configuration workbook. |
| HP Gen 9           | Rackmount and C-Class servers configured as defined in the configuration workbook. |
| X5-2 servers       | Rackmount servers configured as defined in the configuration workbook.             |
| X5-2 NETRA servers | Rackmount 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](http://docs.oracle.com/cd/E57832_01/index.htm).

# 5

## Firmware Components

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](http://docs.oracle.com/cd/E57832_01/index.htm).

### Firmware Component List

The firmware documents are available from Oracle Help Center (OHC): [http://docs.oracle.com/cd/E57832\\_01/index.htm](http://docs.oracle.com/cd/E57832_01/index.htm).

Table 5-1 shows the firmware components used in this release.

**Table 5-1 Supported Firmware Components**

| Hardware             | Release           | Description |
|----------------------|-------------------|-------------|
| HP Firmware FUP      | 2.2.11 (minimum)* | FC          |
| Oracle X5-2 Firmware | 3.1.5 (minimum)   | FC          |

**FC**

Fully Compatible

**PC**

Partially Compatible (Compatible but not fully functional [feature dependent])

**NC**

Not Compatible

**N/A**

Not Applicable

 **Note:**

There are no general restrictions on the use of newer firmware. Oracle provides guidance in the HP Solutions Firmware Upgrade Pack Release Notes on the maximum firmware version for a component. Only when there is a known compatibility issue with a newer firmware version is a maximum version specified. Oracle recommends that the latest firmware release always be used unless there is a known compatibility issue.

# 6

## Compatibility and Software Upgrade Paths

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

### UDR and Policy Management Compatibility Matrix

The firmware documents are available from Oracle Help Center: [http://docs.oracle.com/cd/E57832\\_01/index.htm](http://docs.oracle.com/cd/E57832_01/index.htm).

[UDR and Policy Management Compatibility Matrix](#) lists which releases of Policy Management are compatible with each release of UDR.

**Table 6-1 UDR and Policy Management Compatibility Matrix**

| UDR Software Release | Compatible Policy Management Software Releases |
|----------------------|--|
| 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                 |
| 12.2                 | 12.1, 12.2, 12.3, 12.4                         |
| 12.4                 | 12.1, 12.2, 12.3, 12.4                         |

\* 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.

# 7

## Supported Upgrade Paths

This release has been tested for upgrades from specific prior releases. This chapter contains the exact paths for upgrade for wireless mode. Verify that your current installed release is listed on a valid upgrade path. The possible upgrade paths to Policy Management 12.4 are listed in [Table 7-1](#).

**Table 7-1 Upgrade Paths**

| <b>From</b> | <b>To</b> | <b>Mechanism</b> |
|-------------|-----------|------------------|
| 12.2.x      | 12.4      | ISO upgrade      |
| 12.3.x      | 12.4      | ISO upgrade      |

# 8

## 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.

## Resolved Bug Listing

[Oracle Communications Policy Management Release Resolved Bugs](#) lists bugs that are resolved in the following builds:



### Note:

These files are available in one or more of the following formats:

- \*.iso: for bare metal deployments
- \*.ova: for VMware and OVM/OVS deployments
- \*.qcow2: for KVM/Openstack deployments

### Software

- Oracle Communications Policy Management Configuration Management Platform 12.4.0.1.0\_22.2.0
- Oracle Communications Policy Management Multimedia Policy Engine 12.4.0.1.0\_22.2.0
- Oracle Communications Policy Management Policy Front End 12.4.0.1.0\_22.2.0
- Oracle Communications Policy Management Mediation Server 12.4.0.1.0\_22.2.0
- Oracle Communications Tekelec Virtual Operating Environment (TVOE) 3.5.0.0.0\_88.46.0
- Oracle Communications Tekelec Platform Distribution (TPD) 7.5.0.0.0\_88.46.0
- Oracle Communications Tekelec Platform Management and Configuration (PM&C) 6.5.0.0.0-65.11.0

**Table 8-1 Oracle Communications Policy Management Release 12.4.1 Resolved Bugs**

| Severity | Bug Number | SR Number   | Title  |
|----------|------------|---|--|
| 3        | 28076902   | 3-17492922381   | MPE getting into busy due to thread hung                                     |
| 3        | 28186026   | 3-17696769831   | Less verbose output in Subscriber Activity logs                              |
| 2        | 27111476   | 3-16131285324<br>,<br>3-16514954341<br>,<br>3-16514954357<br>,<br>3-17046760571 | Sy Clean up causing Gx RAR to go wven when there is no change in PC Counters |

## Customer-Known Bugs

There are no customer- known bugs in this release.



# 9

## 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](http://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.