Oracle® Retail Regular Price Optimization

Installation Guide Release 13.1.2

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Oracle Retail Regular Price Optimization Installation Guide, Release 13.1.2

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Your feedback is important, and helps us to best meet your needs as a user of our products. For example:

- Are the implementation steps correct and complete?
- Did you understand the context of the procedures?
- Did you find any errors in the information?
- Does the structure of the information help you with your tasks?
- Do you need different information or graphics? If so, where, and in what format?
- Are the examples correct? Do you need more examples?

If you find any errors or have any other suggestions for improvement, then please tell us your name, the name of the company who has licensed our products, the title and part number of the documentation and the chapter, section, and page number (if available).

Note: Before sending us your comments, you might like to check that you have the latest version of the document and if any concerns are already addressed. To do this, access the new Applications Release Online Documentation CD available on My Oracle Support and http://www.oracle.com. It contains the most current Documentation Library plus all documents revised or released recently.

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Please give your name, address, electronic mail address, and telephone number (optional).

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If you require training or instruction in using Oracle software, then please contact your Oracle local office and inquire about our Oracle University offerings. A list of Oracle offices is available on our Web site at http://www.oracle.com.

Preface

Oracle Retail Installation Guides contain the requirements and procedures that are necessary for the retailer to install Oracle Retail products.

Audience

This Installation Guide is written for the following audiences:

- Database administrators (DBA)
- System analysts and designers
- Integrators and implementation staff

Related Documents

For more information, see the following documents in the Oracle Retail Regular Price Optimization Release 13.1.2 documentation set:

- Oracle Retail Regular Price Optimization Release Notes
- Oracle Retail Regular Price Optimization User Guide
- Oracle Retail Regular Price Optimization Implementation Guide

Customer Support

To contact Oracle Customer Support, access My Oracle Support at the following URL:

https://support.oracle.com

When contacting Customer Support, please provide the following:

- Product version and program/module name
- Functional and technical description of the problem (include business impact)
- Detailed step-by-step instructions to re-create
- Exact error message received
- Screen shots of each step you take

Review Patch Documentation

When you install the application for the first time, you install either a base release (for example, 13.1) or a later patch release (for example, 13.1.2). If you are installing the base release, additional patch, and bundled hot fix releases, read the documentation for all releases that have occurred since the base release before you begin installation. Documentation for patch and bundled hot fix releases can contain critical information related to the base release, as well as information about code changes since the base release.

Oracle Retail Documentation on the Oracle Technology Network

Documentation is packaged with each Oracle Retail product release. Oracle Retail product documentation is also available on the following Web site:

http://www.oracle.com/technology/documentation/oracle_retail.html

(Data Model documents are not available through Oracle Technology Network. These documents are packaged with released code, or you can obtain them through My Oracle Support.)

Documentation should be available on this Web site within a month after a product release.

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Introduction

About Oracle Retail Regular Price Optimization

Oracle Retail Regular Price Optimization (RPO) assists retail price mangers in pricing hard-line and grocery items. It is suited for long lifecycle items with infrequent price changes. It recommends permanent prices based on initial estimates of an item's total sales volume over a planning period and on price-related sales of items and related items.

RPO includes grouping in its pricing analysis because it considers cross-item elasticities; that is, RPO considers how price changes for one item may affect the sales volume of other items that belong to the same demand group. Users can input objective functions and pricing constraints that define the optimization problem. Once these inputs are defined, the pricing optimizer recommends prices and associated volumes. What-if cases can also be created and evaluated side by side within the context of a pricing scenario. Once an analysis of the what-if cases and recommended prices is complete, the user can make a final decision to submit the recommended prices for the given set of merchandise items and locations.

Before You Begin

This document provides detailed instructions on how to install a Regular Price Optimization domain using a configuration created with the RPAS Configuration Tools. This document does not describe how to create the actual configuration.

You will find supplemental installations guides referenced throughout this document; note that the RPAS Installation Guide and the RPAS Configuration Tools User Guide must be obtained prior to beginning the installation process. Oracle Retail recommends that you read these documents in their entirety before beginning the RPO installation process.

Hardware and Software Requirements

The following table provides information about the current release.

Table 1–1 Hardware and Software Requirements

Hardware/Software	Details	
Supported RPAS version	13.1.2	
Supported OS, Server and	Sun Solaris 10: GCC 4.2.3 (32 bit)	
Compiler	AIX 5.3 (TL5 or greater): GCC 4.1.1 (32 bit)	
	AIX 6.1 (TL2, SP3): GCC 4.3.3 (32 bit)	
	HP-UX 11.31 (Itanium): ACC 6.20 (64 bit)	
	Oracle Enterprise Linux 5, Update 2 (OEL 5.2): GCC 4.1.1 (64 bit)	
	Red Hat E nterprise Linux 5.2	
Supported OS, Client	Windows XP and Vista	
Required 3rd Party	Java Development Kit (JDK) 1.5 or higher	
Software	Note : JDK 1.6 is also certified, but it is not necessary to upgrade to JDK 1.6.	

Supported Oracle Retail Products

The following Oracle Retail products are supported:

Table 1–2 Supported Oracle Retail Products

Requirement	Version
Oracle Retail Demand Forecasting	13.1.2

Installing RPO on UNIX Environments

The installation of the server-side RPAS components on UNIX operating systems is accomplished using a Java-based installation program that is included with the installation package. The installation package contains two installers, the RPAS Installer and the RPO Installer.

The RPAS Installer automates the following:

- Installation of the RPAS server
- Installation of Configuration Tools on the server (Refer to the RPAS Installation *Guide* for information on installing Configuration Tools on Windows machines)
- Definition of DomainDaemon port
- Creation of a sample global domain

The RPO Installer automates the following:

- Installation of the RPO mock install configuration
- Custom configuration of make_domain.rpo script for creating domains
- Creation of sample RPO domain

This document assumes that the RPAS Installer process (from the RPAS Installation Guide) has been completed prior to using the RPO Installer.

Preparation

The RPAS components included in this installation process are available inside the media pack of the solution downloaded from Oracle's E-Delivery Web site (http://edelivery.oracle.com/).

If you are installing any RPAS 12.1 or above solution on HP Itanium, you need to set the 64-bit Configuration Tools environment variable for Java as shown below:

export RIDE_OPTIONS=-d64

Environment Variable Setup Script

Before running the solution installer, run the retaillogin.ksh script. The script is located in the root of the base directory where RPAS was installed unless the default was overwritten when specifying directory paths.

Source the script from inside the directory where the script is located:

```
. ./retaillogin.ksh
```

OR

Include the full path after the period:

. /<base_directory>/retaillogin.ksh

Note: The preceding period and space (". ") must be included at the beginning of the command when executing the script.

Note: Include this path and script in the .profile in your home directory (~/.profile) if you want to have this environment setup script run during login.

This script sets up environment variables, such as RPAS HOME and RIDE HOME, which are required for RPAS to run properly.

Extracting the RPO Installation Package

Perform the following procedure to extract the installation package.

- Create an installation directory from which the RPO installation routine will be run. This directory is referred to as [RPO Installation].
- Download the package from Oracle E-Delivery, and transfer the archive to the [RPO Installation] directory on the target server using FTP. Use binary mode to transfer the archive.
- Extract the main package to the [RPO Installation] directory.

```
cd [RPO Installation]
unzip RPO.zip
```

Installation Instructions

Perform the following procedures to install RPO.

Begin the Installer by first changing to the root of the [RPO Installation]/CDROM/rpo directory and running the following command:

```
./install.sh
```

Note: The command must be executed with the preceding period and forward slash.

If this process is performed on an X-Windows emulator (such as Exceed), a graphical user interface to the Installer appears. If you are running in console mode through a terminal emulator, a text interface to the Installer appears.

In both cases, the requested information is identical but displayed differently. In the GUI, you may be shown a check box to signal whether you want a component installed; in text mode, you are prompted for a response of yes or no.

Note: In text mode, the default value appears in square brackets. To use the default value and continue, click Enter. If you wish to use a different value, enter the new value. When prompted to create a directory, respond with **y** or **yes** and click **Enter**.

The Regular Price Optimization Installer screen appears and shows the components that are installed during the installation process, as well as other required components.

Figure 2-1 Regular Price Optimization Installer Screen



- **2.** The Base Paths for Solution screen appears. Enter the following information:
 - Directories to store the configuration
 - Directory to store created domains for this solution (used to create domain paths on following page)
 - Path to the retailogin.ksh script created during RPAS installation

Figure 2–2 Base Paths for Solution Screen



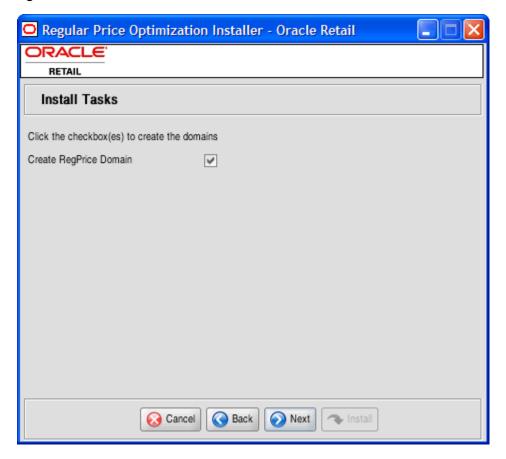
The Domain installation paths screen appears. Enter the path to the RPO domain to be created.

Figure 2–3 Domain Installation Paths Screen



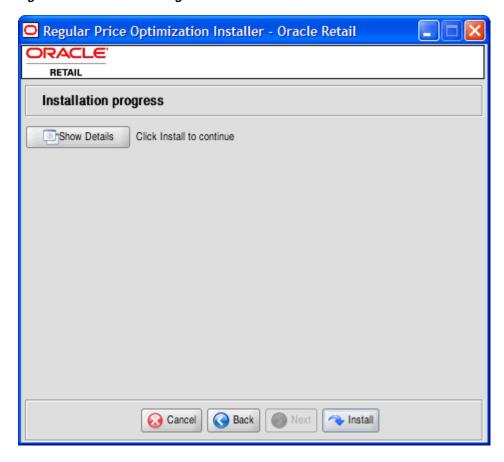
4. The Install Tasks screen appears. If you want to create the RPO domain, enable the Create RPO Domain check box. If you want to install all required components to support the RPO domain, but do not want to create the actual RPO domain, uncheck the Create RPO Domain check box.

Figure 2-4 Install Tasks Screen



The Installation progress screen appears. Click **Install** to begin installing RPO. 5.

Figure 2-5 Installation Progress Screen

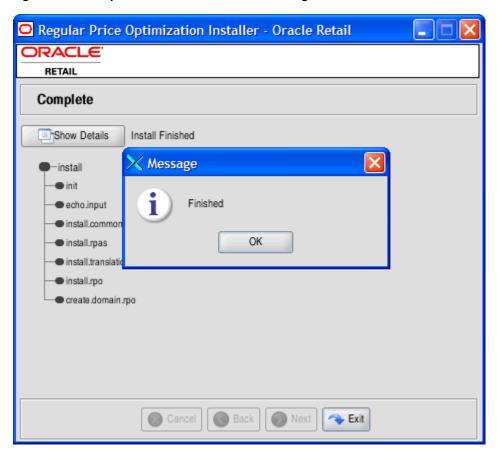


This screen displays installation progress. Select Show Details if you wish to view the log output as the installation is performed. If you choose not to view the details, a graphical representation of the installation steps appears. As each step is completed, the text color changes to indicate installation progress.

You can toggle to the Show Details mode at any time during or after the installation.

When the installation process is finished, the Finished notification screen appears. Click OK.

Figure 2-6 Complete Screen with Finished Message



Now that the installation process is complete, you can:

- Click Show Details to view the logs if you viewed the installation via the graphical progress.
- Click Exit to close the installer application once you are finished reviewing the installation.

If you wish to view the log at a later date, a text copy was saved in the directory where you initiated the installation from [RPO Installation]/CDROM/rpo. The log file is named based on the product and a timestamp, followed by the .log extension.

Created as part of this process is a sample domain creation script, located in the [Dir to store configurations] entered previously. This file is named "make_ domain.rpo." This file contains all of the required parameters needed to support the domain installation process. If necessary, this file may be modified if the default parameters are not applicable for your particular environment.

Note: The domain installation process also includes post-installation data loading scripts specific to this configuration. These scripts may also be modified.

Appendix: Installation Order

This section provides a guideline for the order in which the Oracle Retail applications should be installed. If a retailer has chosen to use only some of the applications, the order is still valid, less the applications not being installed.

Note: The installation order is not meant to imply integration between products.

Enterprise Installation Order

- 1. Oracle Retail Merchandising System (RMS), Oracle Retail Trade Management (RTM), Oracle Retail Sales Audit (ReSA)
- Oracle Retail Service Layer (RSL)
- Oracle Retail Extract, Transform, Load (RETL)
- Oracle Retail Active Retail Intelligence (ARI)
- Oracle Retail Warehouse Management System (RWMS)
- Oracle Retail Allocation
- Oracle Retail Invoice Matching (ReIM)
- Oracle Retail Price Management (RPM)

Note: During installation of RPM, you are asked for the RIBforRPM provider URL. Since RIB is installed after RPM, make a note of the URL you enter. If you need to change the RIBforRPM provider URL after you install RIB, you can do so by editing the jndi_provider.xml file.

- **9.** Oracle Retail Central Office (ORCO)
- **10.** Oracle Retail Returns Management (ORRM)
- 11. Oracle Retail Back Office (ORBO) or Back Office with Labels and Tags (ORLAT)

12. Oracle Retail Store Inventory Management (SIM)

Note: During installation of SIM, you are asked for the RIB provider URL. Since RIB is installed after SIM, make a note of the URL you enter. If you need to change the RIB provider URL after you install RIB, you can do so by editing the jndi_providers_ribclient.xml file.

- **13.** Oracle Retail Predictive Application Server (RPAS)
- **14.** Oracle Retail Demand Forecasting (RDF)
- **15.** Oracle Retail Category Management (CM)
- **16.** Oracle Retail Replenishment Optimization (RO)
- 17. Oracle Retail Analytic Parameter Calculator Replenishment Optimization (APC RO)
- **18.** Oracle Retail Regular Price Optimzation (RPO)
- **19.** Oracle Retail Merchandise Financial Planning (MFP)
- **20.** Oracle Retail Size Profile Optimization (SPO)
- **21.** Oracle Retail Assortment Planning (AP)
- **22.** Oracle Retail Item Planning (IP)
- **23.** Oracle Retail Item Planning configured for COE (IPCOE)
- **24.** Oracle Retail Advanced Inventory Planning (AIP)
- **25.** Oracle Retail Integration Bus (RIB)
- **26.** Oracle Retail Point-of-Service (ORPOS)
- **27.** Oracle Retail Analytics Applications
- **28.** Oracle Retail Data Warehouse (RDW)
- **29.** Oracle Retail Workspace (ORW)