

Oracle® Retail Regular Price Optimization

Installation Guide

Release 16.0.1

E86625-01

May 2017

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Oracle Retail Regular Price Optimization Installation Guide, Release 16.0.1.

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- Did you understand the context of the procedures?
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- Do you need different information or graphics? If so, where, and in what format?
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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

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<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

Related Documents

For more information, see the following documents in the Oracle Retail Regular Price Optimization Release 16.0.1 documentation set:

- *Oracle Retail Regular Price Optimization Implementation Guide*
- *Oracle Retail Regular Price Optimization Installation Guide*
- *Oracle Retail Regular Price Optimization Release Notes*
- Oracle Retail Predictive Application Server documentation

The following documentation may also be needed when implementing RPO:

- *Oracle Retail Predictive Application Server Batch Script Architecture Implementation Guide*

For more information about the Analytic Parameter Calculator for Regular Price Optimization (APC-RPO) application, see the Oracle Retail Analytic Parameter Calculator for Regular Price Optimization documentation set.

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, 16.0) or a later patch release (for example, 16.0.1). 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.

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This process will prevent delays in making critical corrections available to customers. For the customer, it means that before you begin installation, you must verify that you have the most recent version of the Oracle Retail documentation set. Oracle Retail documentation is available on the Oracle Technology Network at the following URL:

<http://www.oracle.com/technetwork/documentation/oracle-retail-100266.html>

An updated version of the applicable Oracle Retail document is indicated by Oracle part number, as well as print date (month and year). An updated version uses the same part number, with a higher-numbered suffix. For example, part number E123456-02 is an updated version of a document with part number E123456-01.

If a more recent version of a document is available, that version supersedes all previous versions.

Oracle Retail Documentation on the Oracle Technology Network

Oracle Retail product documentation is available on the following web site:

<http://www.oracle.com/technetwork/documentation/oracle-retail-100266.html>

(Data Model documents are not available through Oracle Technology Network. You can obtain them through My Oracle Support.)

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.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
<code>monospace</code>	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Introduction

Oracle Retail Regular Price Optimization (RPO) assists retail price managers 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. Users can input objective functions and pricing constraints that define the optimization problem. After these inputs are defined, the pricing optimizer recommends prices. Multiple scenarios can be created and evaluated side by side, and what-if analysis can be performed within the context of a pricing scenario. After analyzing the what-if results and recommended prices, the user can make a final decision to submit the recommended prices for the given set of merchandise items and locations.

About This Document

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.

This document contains information for full and patch installations:

- [Chapter 2, "Full Installation: UNIX Environments"](#). Refer to this section if you are performing a full installation.
- [Chapter 3, "Patch Installation"](#). Refer to this section if you are performing a patch installation.
- [Appendix A, "Appendix: Installation Order"](#). Refer to this section for the installation order of RPAS applications.

Read this entire guide before beginning the installation process to ensure you understand the installation process and have all the necessary documentation, hardware, and software available.

You will find supplemental installations guides referenced throughout this document; note that the *Oracle Retail Predictive Application Server Installation Guide* and the *Oracle Retail Predictive Application Server 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

Note: Oracle Retail assumes that the retailer has applied all required fixes for supported compatible technologies.

Table 1–1 provides information on the hardware and software requirements.

Table 1–1 Hardware and Software Requirements

Requirement	Details
Supported RPAS Version	16.0.1
Required Software	Java Development Kit (JDK) 1.8 Note: There are specific JDK versions needed for each of the supported operating systems for the Oracle Retail Predictive Application Server (RPAS). For the list of JDK versions, see the <i>Oracle Retail Predictive Application Server Installation Guide</i> . Note: When installing Java, avoid enabling AutoUpdate because it may update the Java version without prompting.

Note: RPAS applications, such as RPO, run on the Oracle Retail Predictive Application Server (RPAS) platform. For information about the hardware and software requirements for RPAS, see the supported RPAS version of the *Oracle Retail Predictive Application Server Installation Guide*.

Supported Oracle Retail Products

Table 1–2 provides information about the supported Oracle Retail products:

Table 1–2 Supported Oracle Retail Products

Product	Version
Oracle Retail Analytic Parameter Calculator for Regular Price Optimization (APC-RPO)	16.0.1
Oracle Retail Demand Forecasting (RDF)	16.0.1

Requesting Infrastructure Software

If you are unable to find the necessary version of the required Oracle infrastructure software (database server, application server, WebLogic, and so on.) on the Oracle Software Delivery Cloud, you should file a non-technical 'Contact Us' Service Request (SR) and request access to the media. For instructions on filing a non-technical SR, see My Oracle Support Note 1071023.1 – *Requesting Physical Shipment or Download URL for Software Media*.

Road Map for Installing RPO

This guide explains how you can install and set up the RPO application. In order to install RPO for production, you must perform the following tasks in a sequence:

Task	Description
<i>Pre-installation Tasks</i>	
1.	Install and set up the RPAS Infrastructure. For more information, refer to the <i>Oracle Retail Predictive Application Server Installation Guide</i> .
2.	Install and set up the RPAS Client. RPAS Release 16.0.1 includes the RPAS Classic Client and RPAS Fusion Client. For more information, refer to the <i>Oracle Retail Predictive Application Server Installation Guide</i> .
<i>Installation Task</i>	
3.	Access the RPO installation software and install the application. For more information, see Chapter 2, "Full Installation: UNIX Environments" .

Note: Refer to chapter, “Creating a Multi-solution Taskflow” in the Oracle Retail Predictive Application Server Configuration Tools User Guide for information about the Multi-solution Taskflow.

Full Installation: 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 RPO Installer automates the following:

- Installation of the RPO configuration
- Installation of the RPO configuration for the RPAS Fusion Client. For more information on installing the RPAS Fusion Client, refer to the *Oracle Retail Predictive Application Server Installation Guide*.
- 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 *Oracle Retail Predictive Application Server Installation Guide*) has been completed prior to using the RPO Installer.

Preparation

The RPAS server components required prior to this installation process are available from Oracle's E-Delivery web site, <http://edelivery.oracle.com>, and My Oracle Support, <https://support.oracle.com>.

Environment Variable Setup

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 and space (". "):

```
. /<base_directory>/retaillogin.ksh
```

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

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.

Note: There are additional Java environment variables that must be set for your particular operation system. These variables are the same for all applications on RPAS. See the “Java Environment” section of the *Oracle Retail Predictive Application Server Installation Guide* for these environment variables.

Extracting the RPO Media Pack

Perform the following procedure to extract the installation package.

1. Create a directory to store the RPO media pack and download the media pack to this location. This directory is referred to as **[RPO Installation]**.
2. Extract the media pack to this location. After it is extracted, two directories appear: **CDROM** and **DOCS**.
 - The **CDROM** folder contains the `rpo.zip` file. This zip file contains the RPO solution.
 - The **DOCS** folder contains the RPO documentation.

Note: Files contained within the installation package are intended to be used by the installer only.

Installing RPO

Perform the following steps to install RPO.

Note: This product's installer includes Ant. If Ant is already installed on your system and is version 1.6.5 or earlier, then you must run `unset ANT_HOME` on the command line to ensure that the installer uses the included version. The `unset ANT_HOME` command must be run before `./install.sh`.

1. Create a directory to store the RPO media pack on the target server. This directory will be referred to as **[RPO Installation]**. It is the location where the RPO installation routine is run.
2. Using FTP in binary mode, transfer the RPO media pack to the **[RPO Installation]** directory on the target server.
3. Extract the package to the **[RPO Installation]** directory.

```
cd [RPO Installation]
unzip [RPO Media Pack]
```
4. Extract the RPO Installer.

```
cd CDROM
unzip rpo.zip
```
5. Change directories to the root of the **[RPO Installation]** directory and run the RPO Installer:

```
cd rpo
./install.sh
```

Note: The command must be run with the preceding period and slash (./).

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

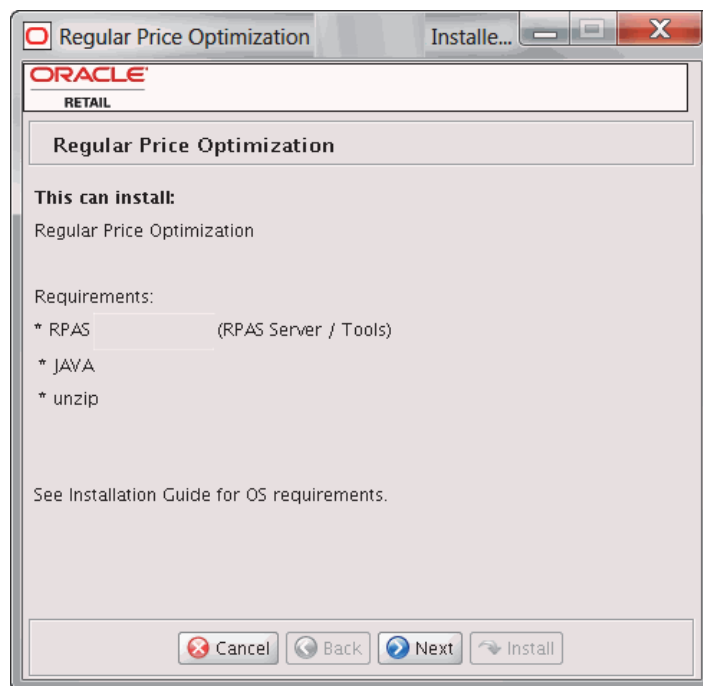
In both cases, the requested information is identical. In the GUI, you may be shown a check box to signal whether you want a component installed; in text mode, you are prompted for a response of **Yes** or **No**.

Note: In text mode, the default value appears in square brackets []. To use the default value and continue, press **Enter**. If you want to use a different value, enter the new value. When prompted to create a directory, respond with **Yes** and press **Enter**.

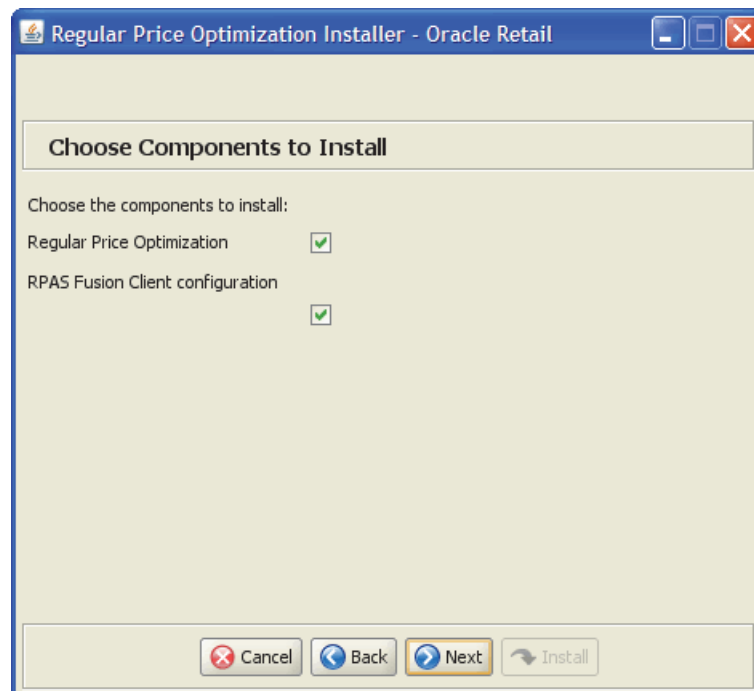
6. The [Regular Price Optimization Installer Window](#) opens and displays the components that are installed during the installation process, as well as the required components.

Click **Next** to continue.

Figure 2–1 Regular Price Optimization Installer Window



7. The [Choose Components to Install Window](#) opens.

Figure 2–2 Choose Components to Install Window

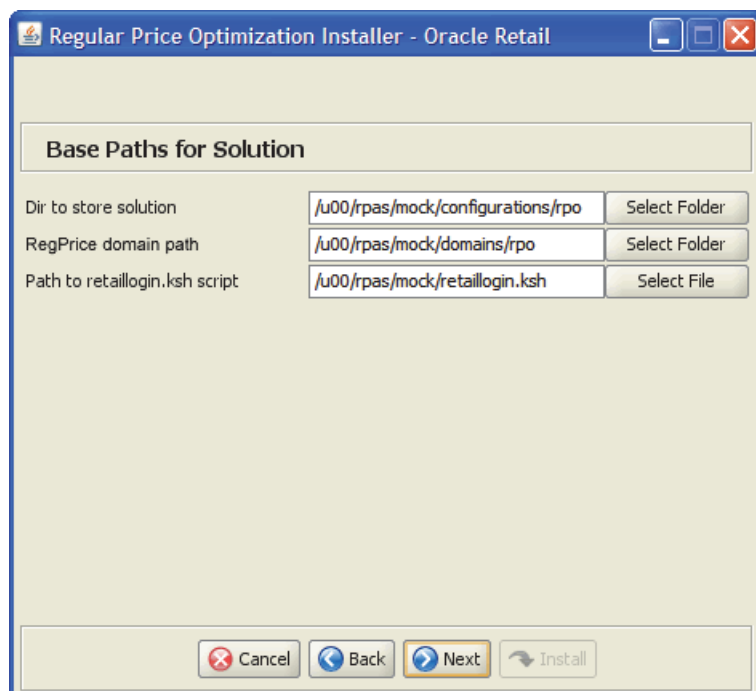
Select the following options:

- **Regular Price Optimization** – Select this option to install the RPO server with the domain.
- **RPAS Fusion Client configuration** – Select this option to install the RPAS Fusion Client configuration for RPO. For more information on the configuration files included for the RPAS Fusion Client, see [Configuration Files for the RPAS Fusion Client](#).

Note: If you do not want to install the RPAS Fusion Client configuration, clear this check box and skip steps 10 and 11.

Click **Next** to continue.

8. The [Base Paths for Solution Window](#) opens.

Figure 2–3 Base Paths for Solution Window

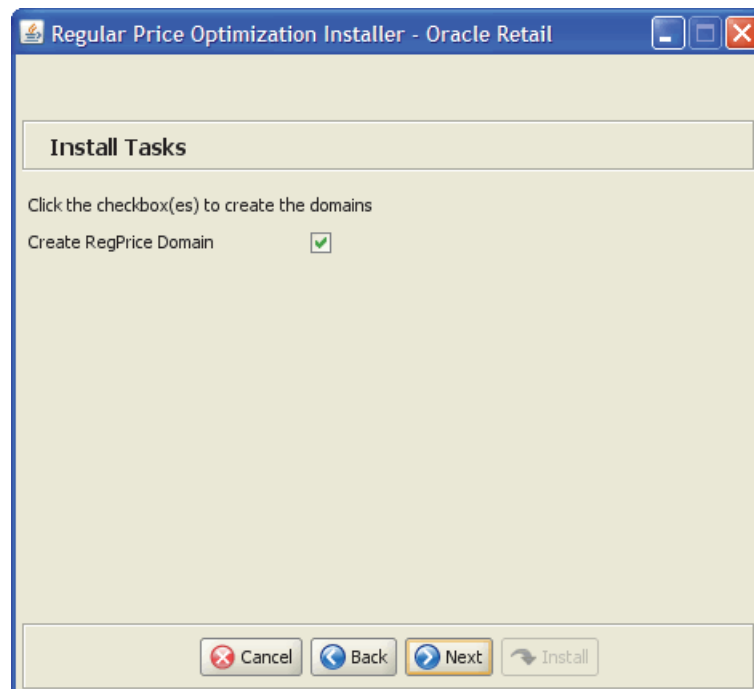
Enter the relevant information in the following fields:

- **Dir to store solution** - Enter the directory path where your solution should be stored.
- **RegPrice domain path** - Enter the directory path where domains for this solution should be stored.
- **Path to retaillogin.ksh script** - Enter the path and file name to the retaillogin.ksh script created during RPAS installation.

Note: Ensure that the installation paths are located outside the installer directory [RPO Installation].

Click **Next** to continue.

9. The [Install Tasks Window](#) opens.

Figure 2–4 Install Tasks Window

Select or clear the **Create RegPrice Domain** check box:

- If you want to create the RPO domain, select the **Create RegPrice Domain** option, which is selected by default.

Note: Domain builds use the environment specified in the `retaillogin.ksh` environment setup script. If you change any environment details, edit the `retaillogin.ksh` script and any subsequent scripts called by `retaillogin.ksh`.

For more information about the `retaillogin.ksh` script, see the [Environment Variable Setup](#) section.

- If you want to install all required components to support the RPO domain, but not create the actual RPO domain, clear the check box.

Click **Next** to continue.

10. The [Fusion Location Information Window](#) opens.

Note: The Fusion Location Information windows open when you select the RPAS Fusion Client configuration check box on the [Choose Components to Install Window](#).

If you are not installing the RPAS Fusion Client configuration, proceed to step 12.

Figure 2-5 Fusion Location Information Window

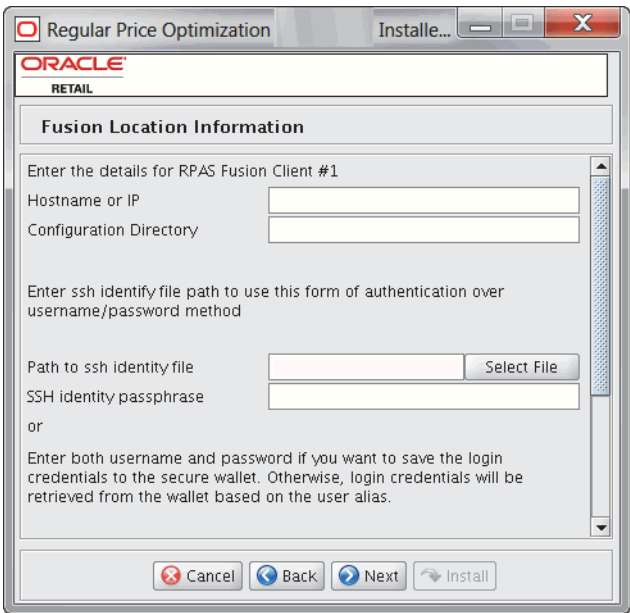
Enter the relevant information in the following fields:

Field	Description
Enter the number of RPAS Fusion Client servers to install these configurations on: (1-4)	Enter the number of servers running the RPAS Fusion Client where you want to install the RPO configuration. In case the RPAS Fusion Client is running on a single server, enter 1. If you have a clustered installation, you can enter up to four servers
Enter the RPAS server hostname:	Enter the hostname of the RPAS server.
Enter the RPAS server port:	Enter the port number of the RPAS server.
RPAS Solution Path	Enter the location of the RPAS domain for RPO.

Click **Next** to continue.

- Based on the number of servers you entered, the [Fusion Location Information \(Details\) Window](#) opens.

Figure 2–6 Fusion Location Information (Details) Window



Enter the server details in the following set of fields for each configuration.

Note: The authentication provided needs to be either:

Path to SSH identity file and SSH identity passphrase

or

Login username, Login password, and Login username alias

Field	Description
Hostname or IP	Enter the host name or IP address of the server where the RPAS Fusion Client is installed.
Configuration Directory	Enter the location of the config directory available at the location where the RPAS Fusion Client is installed.
Path to SSH identity file	Enter the location of the SSH identity file to be used for authentication to the server where the RPAS Fusion Client is installed.
SSH identity passphrase	If your SSH identity is secured with a passphrase, then enter the passphrase. If not, then leave this field empty.
Login username	Enter the user name to log on to the server where the RPAS Fusion Client is installed.
Login password	Enter the password associated with the user name.
Login username alias	Specify an alias name for the administrative user. Specifying an alias name for the administrative user enhances the security for the application. When left blank, the alias name defaults to the administrative user name.

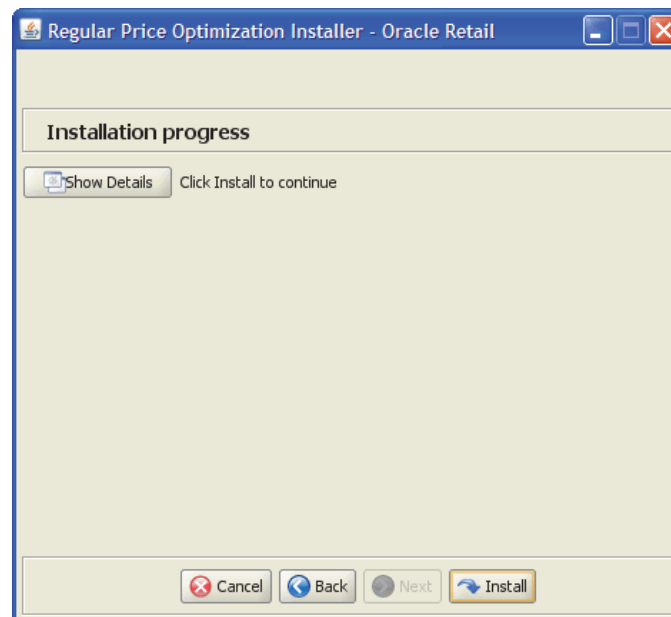
Click **Next** to continue.

Note: Information such as user credentials for the RPAS Fusion Client is encrypted and stored in a secure location in the application installation directory. This location is called the Oracle Wallet.

When the installation starts, the administrative user credentials are retrieved from the Oracle Wallet based on the alias name specified in this window.

12. The [Installation Progress Window](#) opens. To start the installation, click **Install**.

Figure 2–7 *Installation Progress Window*



This window also displays the progress of the installation routine. Click **Show Details** to view the log output as the installation is performed. If you do not select to view the details, a graphical representation of the installation steps appears. As each step is completed, the color changes to show you the progress.

You can toggle between detailed mode at any time during or after the installation.

13. When the installation has finished, the Finished window opens. Click **OK**.
14. To view the installation details, click **Show Details**. The window displays two tabs, the Output tab and the Error tab. It is recommended that you review these tabs for any issues that may have occurred during the installation process.

If you want to view the log again 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 the `make_domain.rpo` file, located in the **[Dir to store configurations]** entered previously. 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: When reviewing Installer output or logs, you may see the following message: *[scp] Caught an exception, leaving main loop due to Socket closed*. This message is harmless and does not indicate failure.

Note: The domain install process may also include postinstallation data loading scripts specific to the RPO configuration. These scripts, if present, may also be modified.

For additional information on installing RPAS domains manually, see to the *Oracle Retail Predictive Application Server Installation Guide*.

15. Click **Exit** to close the Installer.

Postinstallation Tasks

If you are on AIX and you have re-installed RPO, you must edit a help file to use the RPO online help in the RPAS Fusion Client.

Manually edit the `[fusion client installation dir]/config/Help/ohwconfig.xml` file by removing the following duplicate line:

```
<helpSet xmlns="" id="<shortProductName>"
location="<shortProductName>/<shortProductName>-help.hs" />
```

Caution: If this duplicate line is not removed, a “500 Page Not Found” error occurs when attempting to access the online help in the RPAS Fusion Client.

Configuration Files for the RPAS Fusion Client

This section describes the optional installation method that involves setting up the RPAS Fusion Client configuration and online help for the RPO configuration. If you chose to install the Fusion Client configuration files using the RPO installer, you can skip this section.

Note: Before proceeding, ensure that you have appropriate access privileges on the server running the RPAS Fusion Client.

Along with the files to install the RPO solution and domain, the RPO installation media pack also includes the RPAS Fusion Client configuration and online help files that you must install if you want to use RPO on the RPAS Fusion Client.

These files are available at the following location within the **[RPO Installation]** directory:

[RPO Installation]/rpo/fusion

```
<server-name>{RPASServerName}</server-name>
```

During the RPO installation, these files are automatically copied over to the configuration directory where the RPAS Fusion Client is installed. The installation also ensures that the following RPAS Fusion Client configuration files are updated to reflect the RPO installation:

- `Foundation.xml` - Located in the **[RPAS Fusion Client Installation]/ config/rpas** directory, this XML file includes the domain configuration available for use with the RPAS Fusion Client.
- `ohwconfig.xml` - Located in the **[RPAS Fusion Client Installation]/config/Help** directory, this XML file includes the online help configuration for the RPAS Fusion Client.

If you did not install the Fusion Client configuration files during the RPO installation, you can choose to do one of the following tasks:

- Run the RPO installer again, and select to install only the RPAS Fusion Client configuration.
- Run the RPAS Fusion Client installer again, and specify the RPO domain configuration. For more information on the RPAS Fusion Client installation, refer to the *Oracle Retail Predictive Application Server Installation Guide*.
- Configure the RPAS Fusion Client for RPO manually. For more information, see the “Configuring Additional Domains” section in the *Oracle Retail Predictive Application Server Administration Guide for the Fusion Client*.

Taskflow Files

This section provides information about the files needed for taskflow configuration.

If you selected the option to build a domain, you will find two taskflow files (`taskflow.xml` and the `taskflowBundle.properties` resource file) in the `fusionClient` subdirectory within the domain. For information about how to use these files to configure the Multi-solution Taskflow, refer to the section, “Postinstallation Configuration” in the *Oracle Retail Predictive Application Server Administration Guide for the Fusion Client*.

If you selected the option to install the fusion client configuration, the translation files for the taskflow have been copied to `[RPAS Fusion Client Installation]/resources`. For information about how to use these files with the Multi-solution Taskflow, refer to the section, “Creating a Multi-solution Taskflow” in the *Oracle Retail Predictive Application Server Configuration Tools User Guide*.

Patch Installation

This chapter describes how to upgrade RPO from a previous release to Release 16.0.1.

Upgrade Prerequisites

In order to upgrade RPO, first verify the following criteria for the RPAS system:

- Verify that RPAS is currently installed and is at Release 13.3 or later. If not, refer to the section, [Upgrade to Key RPAS Versions](#).
- Verify that the UNIX operating system is updated to the currently supported version. Refer to the “Hardware and Software Requirements” section of the *Oracle Retail Predictive Application Server Installation Guide*.
- Verify that the environment variables are correctly set for both the server and PC; if they are not, follow these instructions to set them:
 - Change directories to the original RPAS installation directory (such as the one created by the most recent installer), and run `retaillogin.ksh` to set all environment variables. For example:

```
$ cd /retail
$ . ./retaillogin.ksh
```

Notes: After you have run the script, verify that the environment variables all point to the correct locations on your environment.

If you have updated Java since the last installation of RPAS, verify that the `JAVA_HOME` path is correct. If not, update your `retaillogin.ksh` script and source it again as previously outlined.

Upgrade Process

The following process outlines how to upgrade RPO to the new version using the RPAS Configuration Tools.

Upgrade to Key RPAS Versions

Before you upgrade to a post-13.3 release, ensure that you have upgraded and patched to RPAS Release 13.2.3.

Upgrade Process to RPAS Release 13.3

This list defines the upgrade process that is described in the following sections.

1. [Upgrade and Patch to RPAS Release 13.2.3](#)
2. [Convert for Integer Indexing](#)
3. [Upgrade and Patch to RPAS Release 13.3 or Later](#)

Upgrade and Patch to RPAS Release 13.2.3

Upgrading your domain to a 13.3 or later RPAS domain requires that you first upgrade it to a 13.2.3 domain. For instructions, see the “Upgrading and Patching Domains” section in the 13.2.3 release of either the Classic Client or Fusion Client version of the *Oracle Retail Predictive Application Server Administration Guide*.

After upgrading, you must run a configuration patch over the domain to ensure compatibility with the RPAS version, regardless of whether there are any configuration changes.

Convert for Integer Indexing

Upgrading to a 13.3 or later RPAS domain requires the use of the `convertDomain` utility, which may not copy the entire contents of the source domain to the destination domain. For files that are not copied by `convertDomain`, you may need to copy them manually.

For information about what is and is not copied, see the “`convertDomain`” section in the 13.3 release of either the Classic Client or Fusion Client version of the *Oracle Retail Predictive Application Server Administration Guide*.

Upgrade and Patch to RPAS Release 13.3 or Later

The following process outlines how to upgrade RPO to the current version using the RPAS Configuration Tools.

Note: After upgrading, you must run a configuration patch over the domain to ensure compatibility with the latest RPAS version, regardless of whether there are any configuration changes.

For the PC

Follow these instructions for the PC to upgrade to the current version:

1. Open RPAS Configuration Tools.
2. In RPAS Configuration Tools, load your previous configuration of RPO:
 - a. From the Configuration Tools File menu, select **Open**.
 - b. From the Open window, locate the configuration file and click **Open**.
3. If your configuration requires updating, dialog boxes will prompt you to upgrade. Follow the instructions given in the dialog boxes.
4. In the RPAS Configuration Tools File menu, click **Save** to save the configuration.
5. Zip the configuration in Cygwin and transfer the .zip file to the RPAS server. Note where it is saved. You will need this configuration for Step 2 of the [For the Server](#) section.

For the Server

Follow these instructions for the server to upgrade to the current version:

1. Upgrade the RPAS server configuration by running the installer:
 - a. Begin the installer as described in the [Installing RPO](#) section.
 - b. Complete steps 1-9.
 - c. At step 9, the [Install Tasks Window](#), clear the **Create RegPrice Domain** option.
 - d. Finish the remaining steps of the installer.
2. Unzip the updated configuration from step 5 of the [For the PC](#) section and note where it is saved.
3. Upgrade your RPO domain to a 16.0.1 domain. Run the following command:

```
buildRegPrice.sh -d <domain path> -c <config path> -i <input path>  
-l <log path> -p
```

Where:	Is the Path for the:
<config path>	configurations
<input path>	input files
<log path>	log file
<domain path>	domain

Note: The flag -p must be used for domain patching.

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)
2. Oracle Retail Sales Audit (ReSA)
3. Oracle Retail Extract, Transform, Load (RETL)
4. Oracle Retail Warehouse Management System (RWMS)
5. Oracle Retail Invoice Matching (ReIM)
6. Oracle Retail Price Management (RPM)
7. Oracle Retail Allocation
8. Oracle Retail Mobile Merchandising (ORMM)
9. Oracle Retail Customer Engagement (ORCE)
10. Oracle Retail Xstore Office
11. Oracle Retail Xstore Point-of-Service, including Xstore Point-of-Service for Grocery, and including Xstore Mobile
12. Oracle Retail Xstore Environment
13. Oracle Retail EFTLink
14. Oracle Retail Store Inventory Management (SIM), including Mobile SIM
15. Oracle Retail Predictive Application Server (RPAS)
16. Oracle Retail Predictive Application Server Batch Script Architecture (RPAS BSA)
17. Oracle Retail Demand Forecasting (RDF)
18. Oracle Retail Category Management Planning and Optimization/Macro Space Optimization (CMPO/MSO)
19. Oracle Retail Replenishment Optimization (RO)

- 20.** Oracle Retail Regular Price Optimization (RPO)
- 21.** Oracle Retail Merchandise Financial Planning (MFP)
- 22.** Oracle Retail Size Profile Optimization (SPO)
- 23.** Oracle Retail Assortment Planning (AP)
- 24.** Oracle Retail Item Planning (IP)
- 25.** Oracle Retail Item Planning Configured for COE (IP COE)
- 26.** Oracle Retail Advanced Inventory Planning (AIP)
- 27.** Oracle Retail Integration Bus (RIB)
- 28.** Oracle Retail Services Backbone (RSB)
- 29.** Oracle Retail Financial Integration (ORFI)
- 30.** Oracle Retail Bulk Data Integration (BDI)
- 31.** Oracle Retail Integration Console (RIC)
- 32.** Oracle Commerce Retail Extension Module (ORXM)
- 33.** Oracle Retail Data Extractor for Merchandising
- 34.** Oracle Retail Clearance Optimization Engine (COE)
- 35.** Oracle Retail Analytic Parameter Calculator for Regular Price Optimization (APC-RPO)
- 36.** Oracle Retail Insights, including Retail Merchandising Insights (previously Retail Merchandising Analytics) and Retail Customer Insights (previously Retail Customer Analytics)
- 37.** Oracle Retail Order Broker