

**Oracle® Retail Analytic Parameter Calculator for
Regular Price Optimization**

Installation Guide

Release 13.3.3

E51326-01

December 2013

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Primary Author: Melissa Artley

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Oracle Retail Analytic Parameter Calculator for Regular Price Optimization
Installation Guide, Release 13.3.3.

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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?
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- 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 Online Documentation available on the Oracle Technology Network Web site. It contains the most current Documentation Library plus all documents revised or released recently.

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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.

This document provides detailed instructions on how you can install the Analytic Parameter Calculator for Regular Price Optimization application (apcrpo domain). This document does not describe how to create the actual configuration.

Audience

This Installation Guide is for the following audiences:

- System administrators and operations personnel
- Database administrators
- System analysts and programmers
- Integrators and implementation staff personnel

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Related Documentation

For more information, see the following documents in the Oracle Retail Analytic Parameter Calculator for Regular Price Optimization, Release 13.3.3 documentation set:

- *Oracle Retail Analytic Parameter Calculator for Regular Price Optimization Release Notes*

For more information on RPAS, see the documents in the Oracle Retail Predictive Application Server Release 13.3.3 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, 13.3) or a later patch release (for example, 13.3.1). 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.

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.
<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

This document provides instructions on installing Oracle Retail Analytic Parameter Calculator for Regular Price Optimization (APC-RPO). It provides detailed instructions on how to install the Analytic Parameter Calculator for Regular Price Optimization application. This document does not describe how to create the actual configuration.

Supplemental installation guides are referenced in this document. The *Oracle Retail Predictive Application Server Installation Guide* and *Oracle Retail Predictive Application Server Configuration Tools User Guide* must be obtained prior to beginning the installation process. Read these documents in their entirety before beginning the installation.

This chapter provides the hardware and software requirements for APC-RPO. It also provides information on the supported Oracle Retail products and the road map to install the APC-RPO application. It includes the following:

- [Check for the Current Version of the Installation Guide](#)
- [Hardware and Software Requirements](#)
- [Supported Oracle Integration Technology](#)
- [Supported Oracle Retail Products](#)
- [Road Map for Installing APC-RPO](#)

Check for the Current Version of the Installation Guide

Corrected versions of Oracle Retail Installation Guides may be published whenever critical corrections are required. For critical corrections, the rerelease of an installation guide may not be attached to a release; the document will simply be replaced on the Oracle Technology Network Web site.

Before you begin installation, check to be sure that you have the most recent version of this installation guide. Oracle Retail installation guides are available on the Oracle Technology Network at the following URL:

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

An updated version of an installation guide is indicated by 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 an installation guide with part number E123456-01.

If a more recent version of this installation guide is available, that version supersedes all previous versions. Only use the newest version for your installation.

Hardware and Software Requirements

Table 1–1 provides information about the current release.

Table 1–1 Hardware and Software Requirements

Requirement	Details
Supported RPAS Version	13.3.3
Required Software	<p>Java Development Kit (JDK) 1.6</p> <p>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>.</p> <p>Note: When installing Java, avoid enabling AutoUpdate because it may update the Java version without prompting.</p>

Note: RPAS applications, such as APC-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 Integration Technology

The following Oracle integration technology is supported:

- Oracle Data Integrator (ODI) 11.1.1.5

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 Demand Forecasting (RDF)	13.3.3
Oracle Retail Regular Price Optimization (RPO)	13.3.3

Road Map for Installing APC-RPO

This guide explains how you can install and set up the APC-RPO application. In order to install APC-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.	<p>Install and set up the RPAS Client. RPAS Release 13.3.3 includes the RPAS Classic Client and RPAS Fusion Client.</p> <p>For more information, refer to the <i>Oracle Retail Predictive Application Server Installation Guide</i>.</p>

Task	Description
<i>Installation Task</i>	
3.	Access the APC-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 Java-based installation programs that are included with the installation package.

The Analytic Parameter Calculator for Regular Price Optimization (APC-RPO) Installer automates the following:

- Installation of the APC-RPO mock install configuration.
- Installation of the APC-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*.
- Creation of a sample APC-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 APC-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 Script

Before running the solution installer, source your `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
```

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 the environment variables, such as `RPAS_HOME` and `RIDE_HOME`, which are required for RPAS to run properly.

Additional Environment Variables

In addition to running `retaillogin.ksh`, export the following environment variables prior to starting the installer.

All Platforms:

```
export RPAS_JAVA_CLASSPATH="$RPAS_HOME/applib/aaijni.jar:  
$RPAS_HOME/applib/aaiAPCRPO.jar:$RPAS_JAVA_CLASSPATH"
```

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.

Downloading and Extracting the APC-RPO Media Pack

The following procedure provides information about downloading and extracting the APC-RPO media pack and its contents:

1. Create a directory to store the APC-RPO media pack on the target server. This directory is referred to as [APC-RPO Installation]. It is the location where the APC-RPO installation routine is run.
2. Download and extract the media pack to this location. After it is extracted, two directories appear, CDROM and DOCS.

The CDROM folder contains the `apcrop.zip` file. This file contains the APC-RPO solution.

The DOCS folder contains the APC-RPO documentation.

Installing Analytic Parameter Calculator for Regular Price Optimization

The following procedure provides information about installing APC-RPO.

1. Extract the APC-RPO installer from the [APC-RPO Installation] directory:

```
cd CDROM  
unzip apcrpo.zip
```

2. From the [APC-RPO Installation]/CDROM directory, run the following commands to run the APC-RPO installer:

```
cd apcrpo  
./install.sh
```

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

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

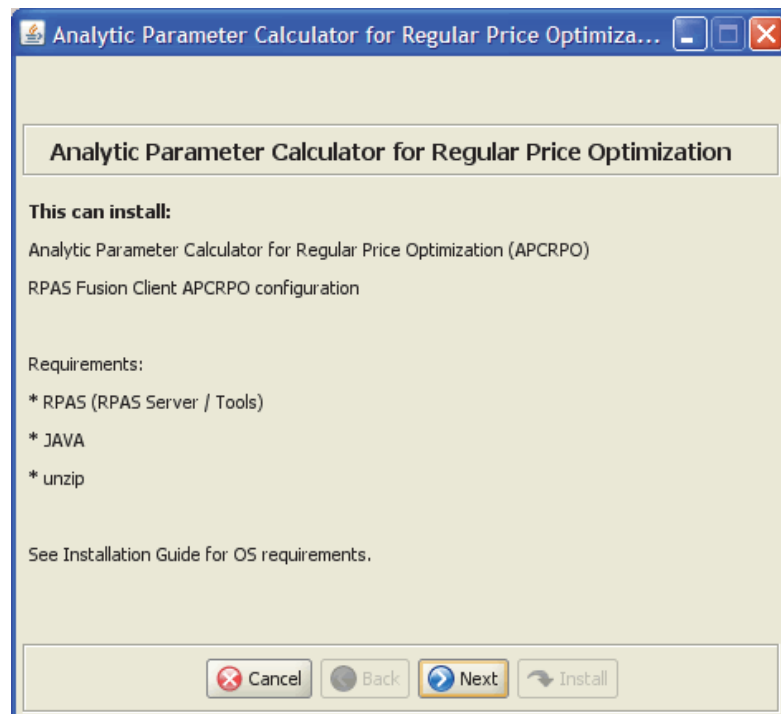
In both cases, the requested information is identical. In the GUI, you may be shown a check box to signal whether you want a component installed; in text mode, you are prompted for a response of **true** or **false**.

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**.

3. The [Analytic Parameter Calculator for Regular Price Optimization Installer Window](#) opens and displays the components that are installed during installation process and the required components.

Click **Next** to continue.

Figure 2–1 *Analytic Parameter Calculator for Regular Price Optimization Installer Window*

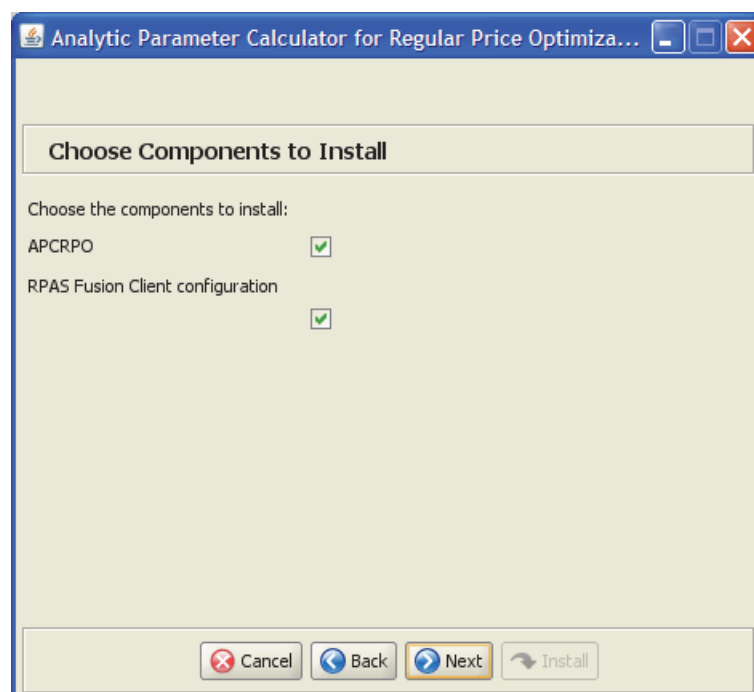


4. The [Choose Components to Install Window](#) opens.

Select one or both of the following options and then click **Next** to continue.

Option	Description
APC-RPO	Select this option to install the APC-RPO application with the domain.
RPAS Fusion Client configuration	Select this option to install the RPAS Fusion Client configuration for APC-RPO. For more information, see Configuration Files for the RPAS Fusion Client . If you do not want to install the RPAS Fusion Client configuration, clear this check box and skip steps 7 and 8.

Figure 2–2 *Choose Components to Install Window*



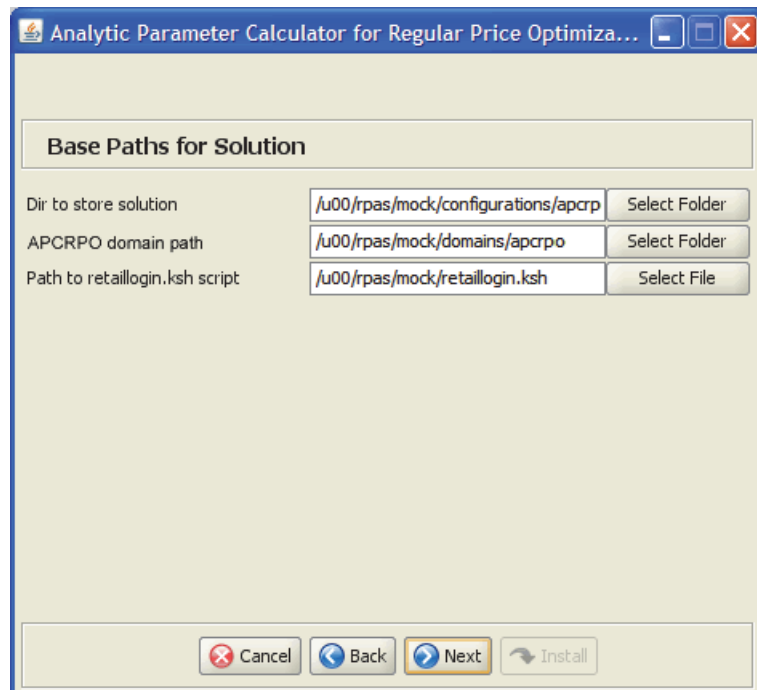
5. The **Base Paths for Solution Window** opens.

Enter the relevant information in the following fields and then click **Next** to continue.

Field	Description
Dir to store solution	Enter the directory path where your solution should be stored.
APC-RPO domain path	Enter the directory path where the domain 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 [APC-RPO Installation].

Figure 2–3 Base Paths for Solution Window



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

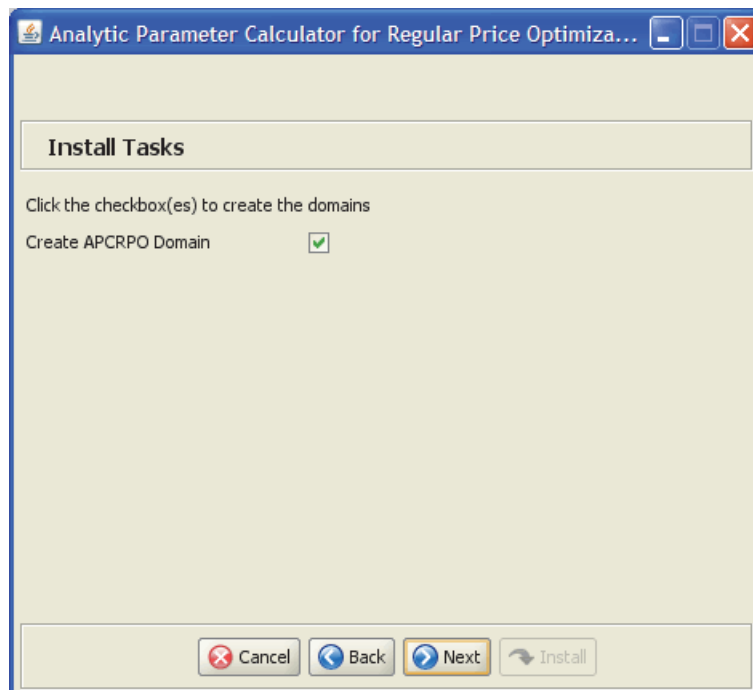
Note: Domain builds use the environment specified in the `retaillogin.ksh` environment setup script. If you change any environment details, edit the `retaillogin.ksh` script and any subsequent scripts called by `retaillogin.ksh`.

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

- If you want to create the APC-RPO domain, select the **Create APC-RPO Domain** option, which is selected by default.
- If you want to install all required components to support the APC-RPO domain, but not create the actual APC-RPO domain, clear the check box.

Click **Next** to continue.

Figure 2–4 *Install Tasks Window*



7. The **Fusion Location Information Window** opens.

Note: The Fusion Location Information windows appear 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, skip to step 9.

Enter the relevant information in the following fields and then click **Next** to continue.

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 APC-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.

Figure 2-5 Fusion Location Information Window

The screenshot shows a window titled "Analytic Parameter Calculator for Regular Price Optimiza...". Inside, there is a section titled "Fusion Location Information". Below this title, there are three input fields with labels: "Enter the number of RPAS Fusion Client servers to install these configurations on: (1-4)" with the value "1", "Enter the RPAS server hostname:" with the value "localhost", and "Enter the RPAS server port:" with the value "5555". At the bottom of the window, there are four buttons: "Cancel", "Back", "Next", and "Install".

8. Based on the number of servers you entered, the [Fusion Location Information \(Second Window\)](#) opens with the following set of fields for each server configuration.

Enter the relevant information in the following fields and then click **Next** to continue.

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.
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.

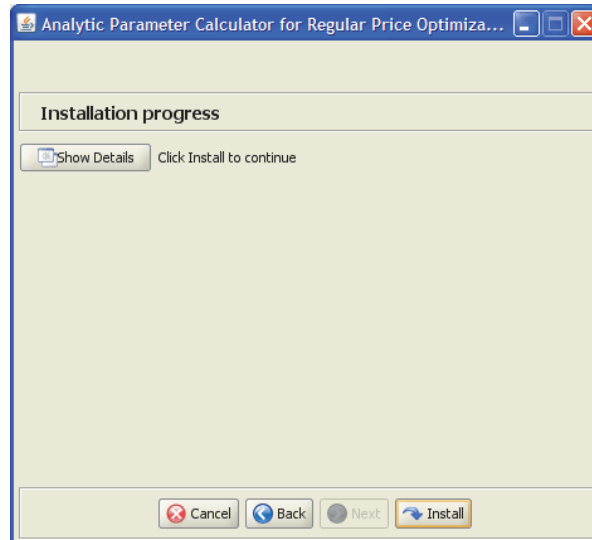
Figure 2–6 Fusion Location Information (Second Window)

Note: As part of the Oracle Software Security Assurance, sensitive information such as user credentials for the RPAS Fusion Client are 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 will be retrieved from the Oracle Wallet based on the alias name specified in this window.

9. The **Installation Progress Window** opens. When you are ready to begin installation, click **Install**.

Figure 2–7 Installation Progress Window



This window also displays the progress of the installation routine. Select **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 opens. 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.

10. When the installation has finished, the Finished message opens. Click **OK** to close the dialog box.
11. To view the installation details, click **Show Details**. The window displays two tabs, *Output* and *Error*. 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 is saved in the directory [APC-RPO Installation]. The log file is named based on the product and timestamp, followed by the .log extension.

Created as part of this process is the `make_domain.apcrpo` file located in [Solution Install Dir] entered previously. This file contains all of the required parameters needed to support the domain installation. If necessary, this file may be modified if the default parameters are not appropriate for your particular environment.

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

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

12. Click **Exit** to close the installer.

Postinstallation Configuration

Before starting the DomainDaemon, you must first set the following configuration property files.

Online Help File

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

Manually edit the [fusion client installation dir]/config/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

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

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

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

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

[APC-RPO Installation]/apcrpo/fusion

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

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

Patch Installation

This chapter describes how to upgrade APC-RPO from a previous release to 13.3.3.

Upgrade Prerequisites

In order to upgrade APC-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 execute `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 APC-RPO to the latest 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.

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 APC-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 APC-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.

For the Server

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

1. Upgrade the RPAS server and the RPAS Fusion Client configuration by running the installer:
 - a. Begin the installer as described in the [Installing Analytic Parameter Calculator for Regular Price Optimization](#) section.
 - b. Complete steps 1-5.
 - c. At step 6, the [Install Tasks Window](#), deselect the **Create APCRPO Domain** option.
 - d. Finish the remaining steps of the installer.
2. Unzip the updated configuration and note where it is saved.
3. Upgrade your APC-RPO domain to a 13.3.3 domain. For upgrading instructions, see the “Upgrading and Patching Domains” section in the in either the Classic Client or Fusion Client version of the *Oracle Retail Predictive Application Server Administration Guide*.

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), Optional: Oracle Retail Fiscal Management (ORFM)

Note: ORFM is an optional application for RMS if you are implementing Brazil localization.

2. Oracle Retail Service Layer (RSL)
3. Oracle Retail Extract, Transform, Load (RETL)
4. Oracle Retail Active Retail Intelligence (ARI)
5. Oracle Retail Warehouse Management System (RWMS)
6. Oracle Retail Allocation
7. Oracle Retail Invoice Matching (ReIM)
8. 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 `remote_service_locator_info_ribserver.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 `remote_service_locator_info_ribserver.xml` file.

13. Oracle Retail Predictive Application Server (RPAS)
14. Oracle Retail Demand Forecasting (RDF)
15. Oracle Retail Category Management
16. Oracle Retail Replenishment Optimization (RO)
17. Oracle Retail Analytic Parameter Calculator Replenishment Optimization (APC RO)
18. Oracle Retail Regular Price Optimization (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 (IP COE)
24. Oracle Retail Advanced Inventory Planning (AIP)
25. Oracle Retail Integration Bus (RIB)
26. Oracle Retail Point-of-Service (ORPOS)
27. Oracle Retail Markdown Optimization (MDO)
28. Oracle Retail Clearance Optimization Engine (COE)
29. Oracle Retail Analytic Parameter Calculator for Markdown Optimization (APC-MDO)
30. Oracle Retail Analytic Parameter Calculator for Regular Price Optimization (APC-RPO)
31. Oracle Retail Promotion Intelligence and Promotion Planning and Optimization (PI-PPO)
32. Oracle Retail Analytics
33. Oracle Retail Workspace (ORW)