

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

Installation Guide

Release 13.2.3

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Oracle Retail Analytic Parameter Calculator for Regular Price Optimization
Installation Guide, Release 13.2.3

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- Did you understand the context of the procedures?
- Did you find any errors in the information?
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- Do you need different information or graphics? If so, where, and in what format?
- Are the examples correct? Do you need more examples?

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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 13.2.3 documentation set:

- *Oracle Retail Analytic Parameter Calculator for Regular Price Optimization Release Notes*
- *Oracle Retail Analytic Parameter Calculator for Regular Price Optimization User Guide for the RPAS Classic Client*
- *Oracle Retail Analytic Parameter Calculator for Regular Price Optimization User Guide for the RPAS Fusion Client*
- *Oracle Retail Analytic Parameter Calculator for Regular Price Optimization Implementation Guide*

For more information on RPAS, see the following documents in the Oracle Retail Predictive Application Server Release 13.2.3 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, 13.1) 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.
<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 *RPAS Installation Guide* and *RPAS 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:

- [Hardware and Software Requirements](#)
- [Supported Oracle Integration Technology](#)
- [Supported Oracle Retail Products](#)
- [Additional Documentation](#)
- [Road Map for Installing APC-RPO](#)

Hardware and Software Requirements

The following table provides information about the current release.

Table 1–1 Hardware and Software Requirements

Requirement	Details
Supported RPAS Version	13.2.3
Supported OS, Server and Compilers	<ul style="list-style-type: none"> ■ AIX 5.3 (POWER) - TL12 SP1: GCC 4.1.1 (64 bit) ■ AIX 6.1 (POWER) -TL6: GCC 4.3.3 (64 bit) ■ Oracle Linux 5, Update 5 (5.5): GCC 4.1.2 (64 bit) ■ Red Hat Enterprise Linux 5.5: GCC 4.1.2 (64 bit) ■ Oracle Solaris 10 (SPARC) Update 5, with time zone patch 122032-01 and libc patch 119689-07: Solaris Studio 12.2 ■ HP-UX Itanium 11.31, Sept. 2010 Quality Pack: ACC 6.20 (64 bit)
Supported OS, Classic Client	<ul style="list-style-type: none"> ■ Microsoft Windows XP Professional SP3 with Microsoft Office 2003 ■ Microsoft Windows 7 Professional (Service Pack 1) with Microsoft Office 2007) ■ Microsoft Windows Vista <p>Note: After the 13.2.3 release, Microsoft Vista will no longer be supported.</p>
Supported OS, Fusion Client Application Server	<ul style="list-style-type: none"> ■ AIX 6.1 (POWER) - TL6 (64 bit) ■ Oracle Linux 5, Update 5 (5.5) (64 bit) ■ Red Hat Enterprise Linux 5.5 (64 bit) ■ Oracle Solaris 10 (SPARC) Update 5, with time zone patch 122032-01 and libc patch 119689-07 ■ HP-UX Itanium 11.31, Sept. 2010 Quality Pack (64 bit) <p>Note: The operating systems you choose for the RPAS server and the application server for the RPAS Fusion Client do not need to be the same.</p>
Supported OS, Fusion Client	<ul style="list-style-type: none"> ■ Microsoft Windows XP Professional SP3 with Microsoft Office 2003 ■ Microsoft Windows 7 Professional (Service Pack 1) with Microsoft Office 2007)
Required 3rd Party Software	<p>Oracle Java Runtime Environment (JRE) 1.6</p> <p>Note: When installing Java, avoid enabling AutoUpdate because it may update the Java version without prompting.</p>

Supported Oracle Integration Technology

The following Oracle integration technology is supported:

- Oracle Data Integrator 10.1.3.5

Supported Oracle Retail Products

The following Oracle Retail products are supported:

Table 1–2 Supported Oracle Retail Products

Product	Version
Oracle Retail Demand Forecasting (RDF)	13.2.3
Oracle Retail Regular Price Optimization (RPO)	13.2.3

Additional Documentation

See the following additional documentation for installing, managing, and using the RPAS Fusion Client and APC-RPO:

- Additional RPAS Documentation:
 - *Oracle Retail Predictive Application Server Installation Guide*
 - *Oracle Retail Predictive Application Server Administration Guide for the Fusion Client*
 - *Oracle Retail Predictive Application Server User Guide for the Fusion Client*
- Additional APC-RPO Documentation:
 - *Oracle Retail Analytic Parameter Calculator for Regular Price Optimization User Guide for the RPAS Fusion Client*

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.	Install and set up the RPAS Client. RPAS Release 13.2.3 includes the RPAS Classic Client and RPAS Fusion Client. For more information, refer to the <i>Oracle Retail Predictive Application Server Installation Guide</i> .
3.	Review and meet the hardware and software requirements for APC-RPO. For more information, see Hardware and Software Requirements .
<i>Installation Task</i>	
4.	Access the APC-RPO installation software and install the application. For more information, see Chapter 2, "Full Installation: UNIX Environments" .

Note: The APC-RPO installation software enables you to install the taskflow and online help files for the RPAS Fusion Client. In order to install the taskflow files, the RPAS Fusion Client must already be installed.

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 *RPAS 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 executing 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 the execution of 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 *RPAS 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. Once extracted, two directories appear, CDROM and DOCS.

The CDROM folder contains the sizeopt.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 executed with the preceding period and forward slash (./).

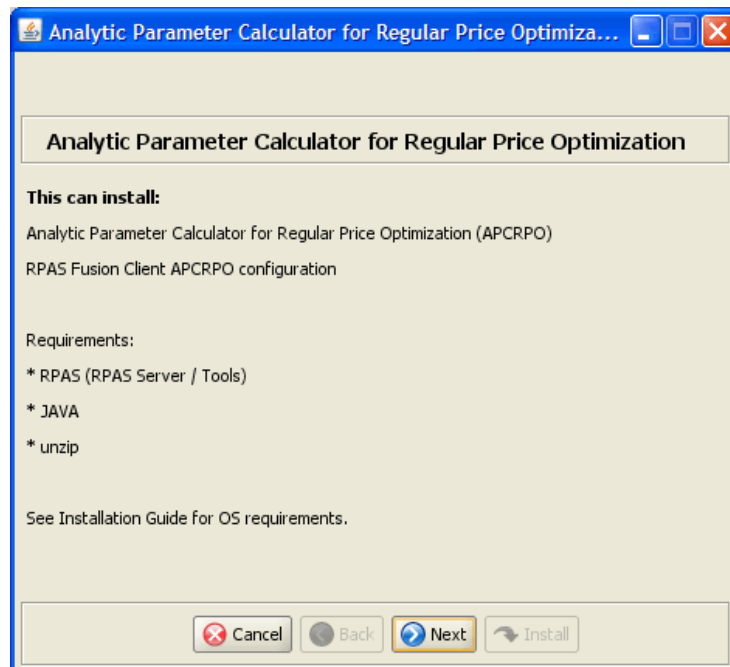
If you are running this process on an X-Windows emulator (such as Exceed), graphical user interface to the Installer appears. If you are running in console mode through a terminal emulator, the text interface to the installer appears.

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 **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 screen appears and displays the components that are installed during installation process and the required components.

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



Click **Next** to continue.

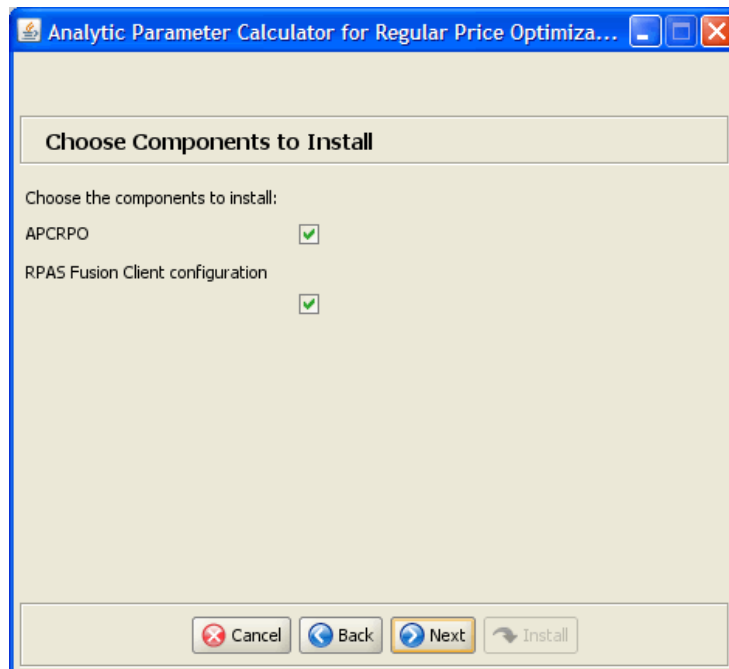
4. The Choose Components to Install screen appears.

Select the following options:

- **Analytic Parameter Calculator for Regular Price Optimization** – 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 on the configuration files included for the RPAS Fusion Client, 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 8 and 9.

Figure 2–2 Choose Components to Install Screen



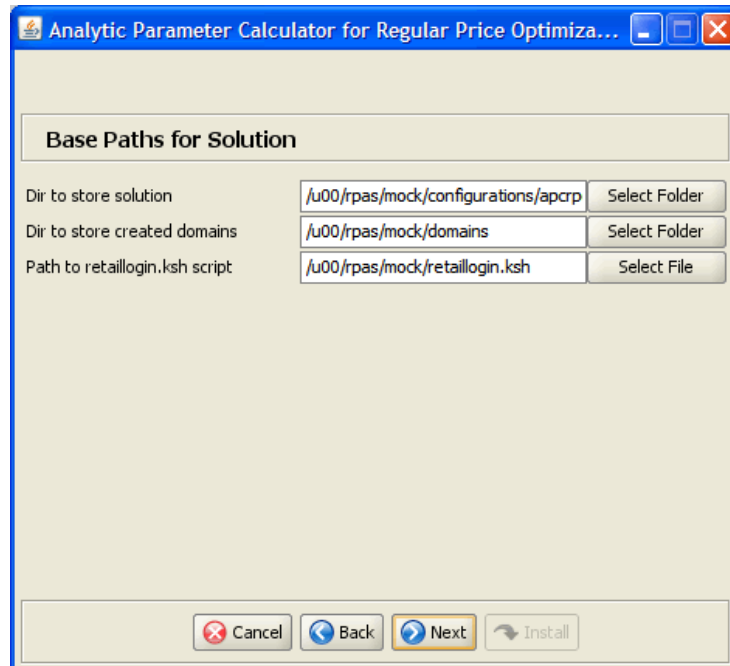
Click **Next** to continue.

5. The Base Paths for Solution screen appears.

Enter the relevant information in the following fields:

- **Dir to store solution** - Enter the directory path where your solution should be stored.
- **Dir to store created domains** - Enter the directory path where you 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 Screen

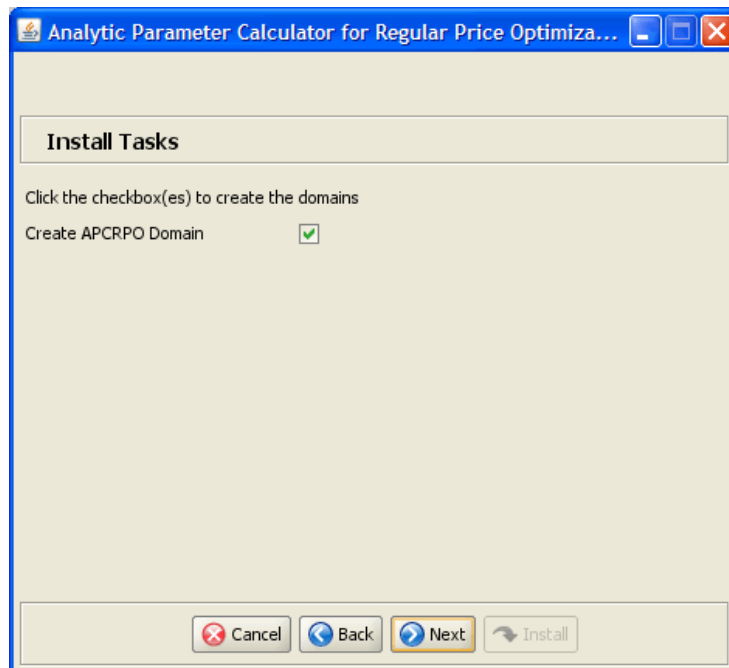
Click **Next** to continue.

6. The Install Tasks screen appears.

- Select the **Create APCRPO Domain** check box, selected by default, to create the APC-RPO domain.

Notes:

- 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.
-
- Clear this check box to have all required components to support an installed domain without creating the domain.

Figure 2–4 Install Tasks Screen

Click **Next** to continue.

7. The Fusion Location Information screen appears.

- 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. In case you have a clustered installation, you can enter up to four servers.
- Enter the host name and port number of the RPAS server.

Note: The Fusion Location Information screens appear when you select the RPAS Fusion Client configuration check box on the Choose Components to Install screen.

If you are not installing the RPAS Fusion Client configuration, skip this step and step 8.

Figure 2–5 Fusion Location Information Screen

Fusion Location Information

Enter the number of RPAS Fusion Client servers to install these configurations on:

(1-4)

Enter the RPAS server hostname:

Enter the RPAS server port:

Click **Next** to continue.

8. Based on the number of servers you entered, the Fusion Location Information screen appears with the following set of fields for each server configuration:
 - **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 Installation Progress Screen

Fusion Location Information

Enter the details for RPAS Fusion Client #1

Hostname or IP

Configuration Directory

Enter both username and password if you want to save the login credentials to the secure wallet. Otherwise, login credentials will be retrieved from the wallet based on the user alias.

Login username

Login password

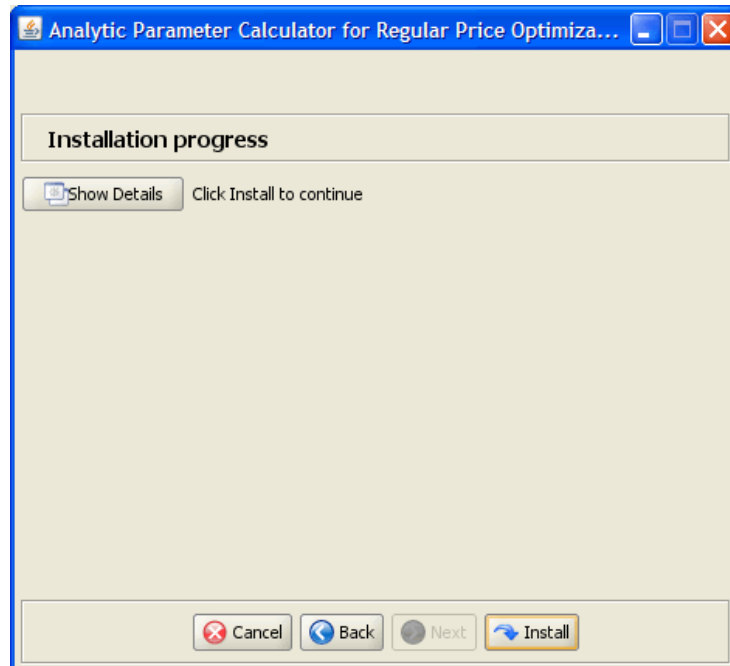
Enter an alias for the username.

Click **Next** to continue.

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 screen.

9. The Installation Progress screen appears. Once you are ready to begin installation, click **Install**.

Figure 2–7 Installation Progress Screen

This screen 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 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.

10. When the installation has finished, the Finished message appears. Click **OK** to close the dialog box.
11. To view the installation details, select the **Show Details** button. The screen 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 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 post-installation 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 *RPAS Installation Guide*.

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

Postinstallation Configuration

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

Environment Variables

Set your APCRPO_HOME environment variable and source the solution's environment.ksh script. This loads environment variables required by RPAS to interact with your solution's workbooks.

To do this, either in shell or with additions to your .profile, add:

```
export APCRPO_HOME=[Solution Install Dir]
. [Solution Install Dir]/bin/environment.ksh
```

Properties Files

Update the path in the calcengine configuration file by performing the following step:

- Update \$RPAS_HOME/applib/resources/ Engine/delphi.properties:
 - Search for engine.agorai.lib and update the path:

Note: The following RPAS_HOME references must be absolute paths. You cannot use environment variables.

For Windows NT:

```
engine.agorai.lib =[RPAS_HOME]/applib/AgoraiJNI.dll
```

For Unix:

```
engine.agorai.lib =[RPAS_HOME]/applib/libAgoraiJNI.so
```

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:

- ProfileList.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 *RPAS Administration Guide for the Fusion Client*.

Patch Installation

This chapter describes how to upgrade APC-RPO from a previous release to 13.2.3.

Upgrade Prerequisites

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

- Verify that RPAS is currently installed.
- Verify that the UNIX operating system is updated to the currently supported version, which can be found in the [Hardware and Software Requirements](#) section.
- 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 outlined above.
-

Upgrade Process

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

For the PC

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

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 Screen](#), 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 13.2.3 domain. For upgrading instructions, see the "Upgrading and Patching Domains" section in the *RPAS Administration Guide for the Classic Client* or *RPAS Administration Guide for the Fusion Client*.

Note: Whether or not you are taking the latest configuration, a configuration patch must be run over the domain to ensure compatibility with the latest RPAS version.

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 (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 (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 Workspace (ORW)**