Oracle® Retail Replenishment Optimization

Installation Guide

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Oracle Retail Replenishment Optimization Installation Guide, Release 13.2.2

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Oracle Retail Replenishment Optimization Installation Guide, Release 13.2.2

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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

Documentation Accessibility

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Related Documents

For more information, see the following documents in the Oracle Retail Replenishment Optimization Release 13.2.2 documentation set:

- *Oracle Retail Replenishment Optimization Release Notes*
- *Oracle Retail Replenishment Optimization User Guide for the RPAS Classic Client*
- *Oracle Retail Replenishment Optimization User Guide for the RPAS Fusion Client*
- *Oracle Retail Replenishment Optimization Online Help for RPAS Fusion Client*
- *Oracle Retail Replenishment Optimization Implementation Guide*

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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 recreate
- Exact error message received
- Screen shots of each step you take

Review Patch Documentation

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

Oracle Retail Documentation on the Oracle Technology Network

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

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

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

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

Conventions

The following text conventions are used in this document:

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

1 Introduction

This document provides detailed instructions on how to install a Replenishment Optimization (RO) domain using a configuration created with the RPAS Configuration Tools. 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 the *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.

About This Document

This document provides information for full and patch installations. It contains the following chapters:

- Chapter 2, "Installing RO on UNIX Environments" – Refer to this chapter if you are performing a full installation.
- Chapter 3, "Patch Installation" – Refer to this chapter if you are performing a patch installation.

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

Hardware and Software Requirements

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

Table 1–1 Hardware and Software Requirements

Requirement	Details
Supported RPAS Version	13.2.2
Supported OS, Server and Compilers	■ Oracle Solaris 10 (SPARC): GCC 4.2.3 (32 bit) ■ AIX 5.3 (POWER) - TL12 SP1: GCC 4.1.1 (32 bit) ■ AIX 6.1 (POWER) -TL4: GCC 4.3.3 (32 bit) ■ HP-UX 11.31 (Itanium): ACC 6.20 (64 bit) ■ Oracle Linux 5, Update 3 (5.3): GCC 4.1.2 (64 bit) ■ Red Hat Enterprise Linux 5.3: GCC 4.1.2 (64 bit) **Notes:** After the 13.2.2 release, the following components will no longer be supported: ■ 32 bit compilation on Solaris 10, AIX 5.3, and AIX 6.1 platforms. All custom extensions must be recompiled in the 64 bit mode on these platforms. Customers must also migrate to 64 bit Java on these platforms. ■ GCC compiler on Solaris 10. The Oracle Solaris Studio 12.2 compiler is in development as a replacement for the GCC compiler. Customers on Solaris 10 who have custom extensions must recompile their extensions using this compiler.
Supported OS, Client	■ Microsoft Windows XP ■ Microsoft Windows Vista
Required 3rd Party Software	■ Oracle Java Runtime Environment (JRE) 1.6 ■ Oracle Java Runtime Environment (JRE) 1.5 - For AIX, the JRE version must be the 32-bit version of # Java 1.5 SR1 or higher. **Notes:** ■ After the 13.2.2 release, JRE 1.5 will no longer be supported. Only JRE 1.6 will remain supported. ■ When installing Java, avoid enabling AutoUpdate because it may update the Java version without prompting. ■ If using RO on the RPAS Fusion Client and if the Fusion Client is installed on a WebLogic server that resides on the same system as the RPAS server, you must use Java 1.6.

Supported Oracle Retail Products

The following Oracle Retail products are supported:

Table 1–2 Supported Oracle Retail Products

Requirement	Version
Oracle Retail Analytic Parameter Calculator for Replenishment Optimization (APC RO)	13.2
Oracle Retail Demand Forecasting (RDF)	13.2.2
Oracle Retail Advanced Inventory Planning (AIP)	13.2

2

Installing RO on UNIX Environments

The installation of the server-side RPAS components on UNIX operating systems is accomplished using a Java-based installation program that is included with the installation package.

The RO Installer automates the following:

- Installation of the RO mock install configuration
- Custom configuration of make_domain.ro script for creating domains
- Creation of a sample RO domain

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

Preparation

The RPAS 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.`

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

```
export RIDE_OPTIONS=-d64
```

Environment Variable Setup Script

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

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

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

OR

Include the full path after the period ".":

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

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

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

This script will set up environment variables, such as RPAS_HOME and RIDE_HOME, which are required for RPAS to run properly.

Additional Required Environment Variables

In addition to the execution of retaillogin.ksh, export the following environment variables prior to starting your installer.

Note: The commands listed in this section are an example based on common Java installation structures. To ensure that you are adding the correct path, use the Unix *find* command to locate libjvm.so (find $JAVA_HOME -name libjvm.so) and adjust the below paths as appropriate.

All Platforms

export

```
RPAS_JAVA_CLASSPATH="$RPAS_HOME/applib/aaijni.jar:$RPAS_
HOME/applib/aaiReplenOpt.jar"
```

For Linux

export

```
LD_LIBRARY_PATH="$JAVA_HOME/bin:$JAVA_HOME/lib/amd64/server:$LD_
LIBRARY_PATH"
```

export

```
PATH="$JAVA_HOME/bin:$JAVA_HOME/lib/amd64/server:$PATH"
```

For Solaris

export

```
LD_LIBRARY_PATH="$JAVA_HOME/bin:$JAVA_HOME/lib/sparc/client:$LD_
LIBRARY_PATH"
```

export

```
PATH="$JAVA_HOME/bin:$JAVA_HOME/lib/sparc/client:$PATH"
```

For AIX

export

```
LIBPATH="$JAVA_HOME/bin:$JAVA_HOME/bin/classic:$LIBPATH":#
$JAVA_HOME/jre/bin:$JAVA_HOME/jre/bin/j9vm:$LIBPATH  #
```

export

```
PATH="$JAVA_HOME/bin:$JAVA_HOME/bin/classic:$PATH"
```

For HP-UX

export

```
SHLIB_PATH="$JAVA_HOME/bin:$JAVA_HOME/lib/IA64W/server:$SHLIB_
PATH"
```

export

```
PATH="$JAVA_HOME/bin:$JAVA_HOME/lib/IA64W/server:$PATH"
```

Extracting the Replenishment Optimization Installation Package

Complete the following steps to extract the installation package:

1. Create an installation directory from which the RO installation routine will be run. This directory will be referred to as [RO Installation].
2. Download the RO Media Pack from Oracle E-Delivery, and transfer the archive to the [RO Installation] directory on the target server using FTP. Use binary mode to transfer the archive.
3. Extract the main package to the [RO Installation] directory.#
   ```
   cd [RO Installation]#
   unzip ro_13.2.2.zip
   ```
4. Extract the RO Installer.

   ```
   cd CDROM#
   upzip [RO Media Pack]
   ```

Installation Instructions

Complete the following steps to install RO:

1. Change to the RO Installer directory and run the following command:

   ```
   cd ro#
   ./install.sh
   ```

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

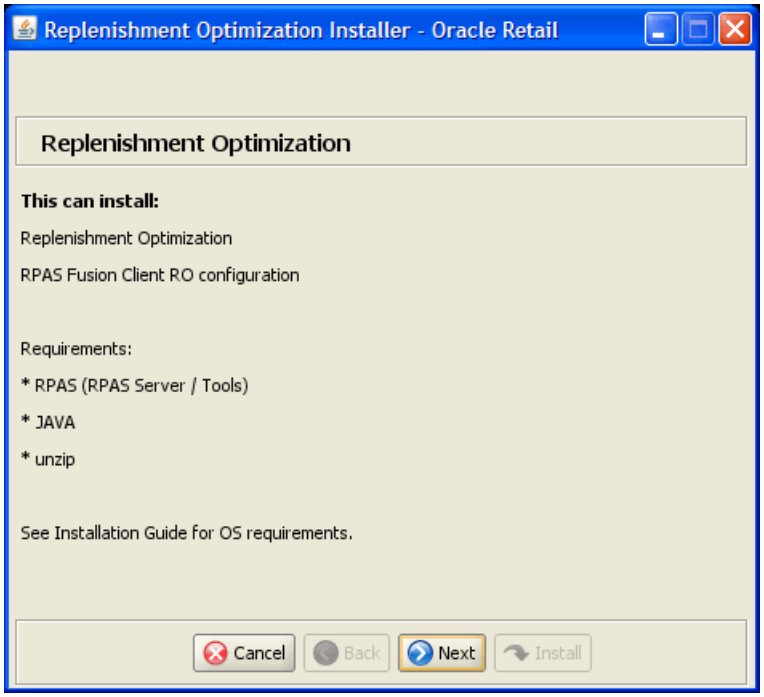
   If this process is performed on an X-Windows emulator (such as Exceed), a graphical user interface to the Installer opens. If you are running in console mode through a terminal emulator, a text interface to the Installer opens.

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

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

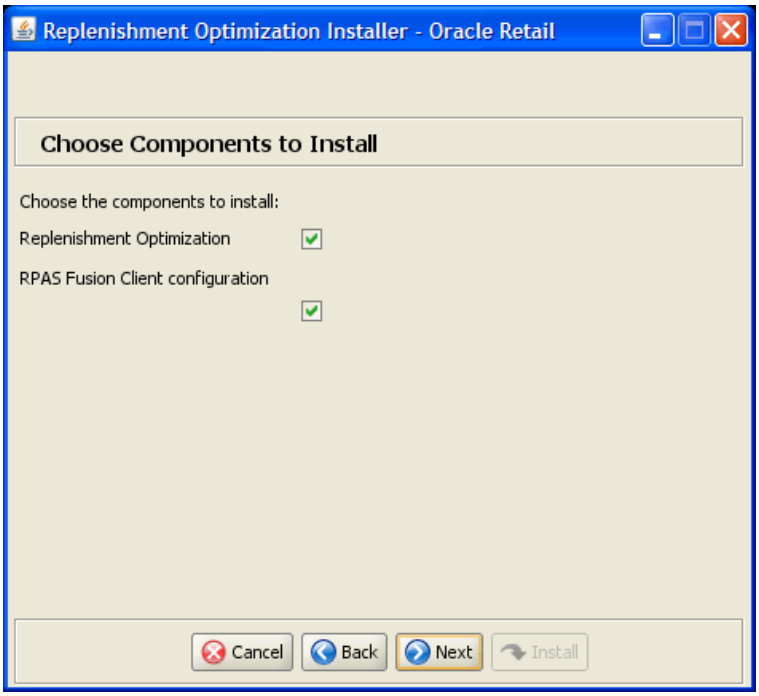
2. The RO Installation Screen opens and shows the components that are installed during installation process as well as other required components. Click **Next** to continue.

Figure 2–1 RO Installation Screen



3. The Choose Components to Install Screen opens.

Figure 2–2 Choose Components to Install Screen



Select the following options:

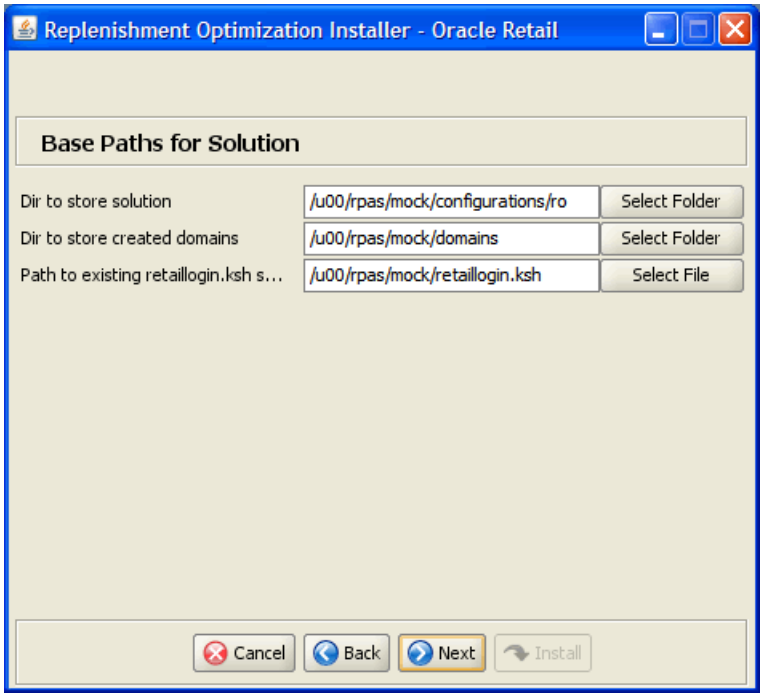
- **Replenishment Optimization** – Select this option to install the RO server with the domain.
- **RPAS Fusion Client configuration** – Select this option to install the RPAS Fusion Client configuration for RO. For more information on the configuration files included for the RPAS Fusion Client, see 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 7 and 8.

Click **Next** to continue.

4. The Base Paths for Solution Screen opens.

Figure 2–3 Base Paths for Solution Screen



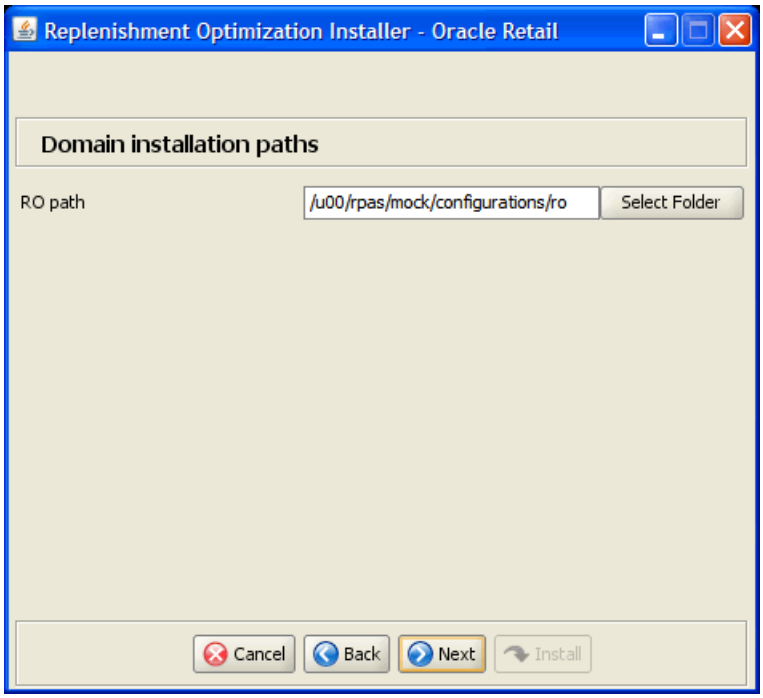
Enter the relevant information in the following fields:

- **Dir to store solution** - Enter the directory path where your solution should be stored.
- **Dir to store created domains** - Enter the directory path where domains for this solution should be stored (used to create domain paths on following screen).
- **Path to retaillogin.ksh script** - Path to the retailogin.ksh script created during RPAS installation.

Click **Next** to continue.

5. The Domain Installation Paths Screen opens.

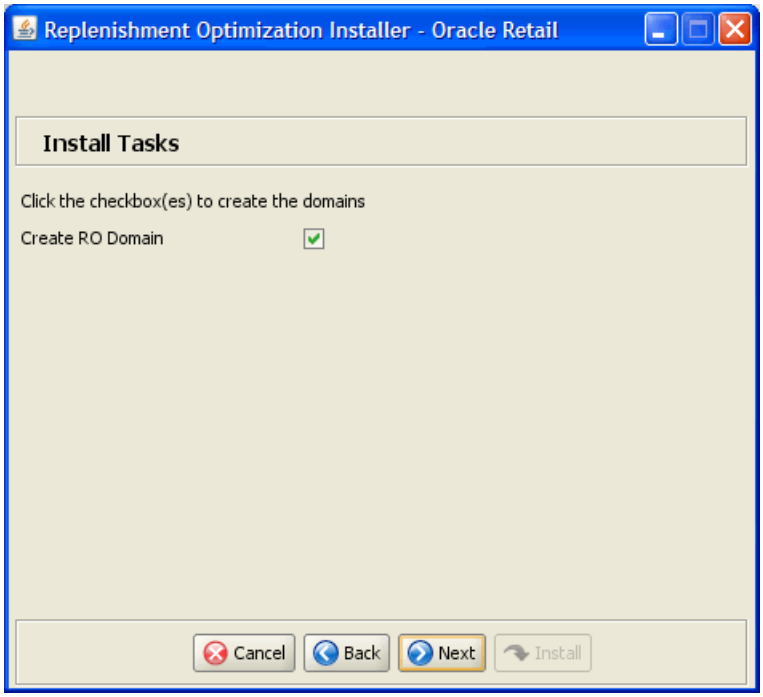
Figure 2–4 Domain Installation Paths Screen



Enter the path to the RO domain to be created and click **Next** to continue.

6. The Install Tasks Screen opens.

Figure 2–5 Install Tasks Screen

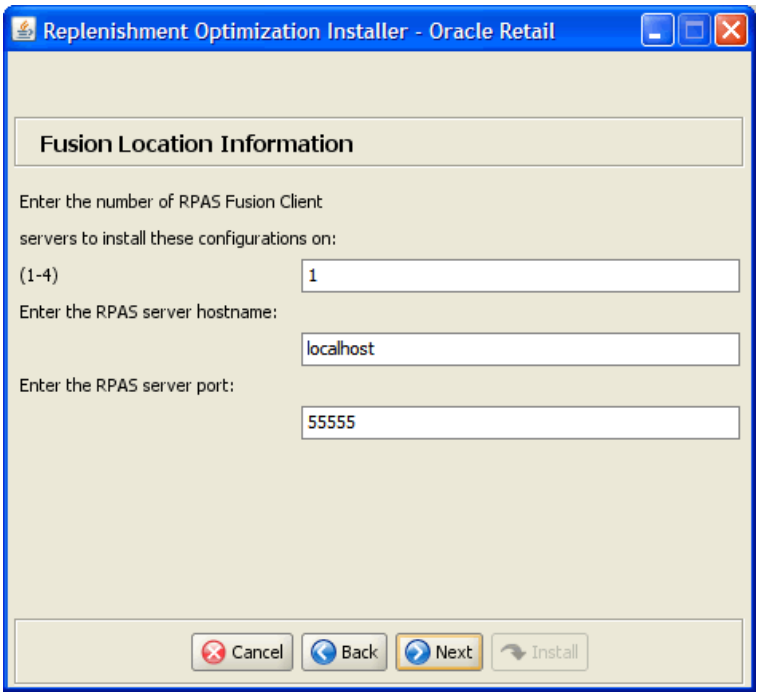


If you want to....	Then....
create the RO domain	select **Create RO Domain** and click **Next**.
install all required components to support the RO domain, but not create the actual RO domain	clear the **Create RO Domain** checkbox and click **Next**.

Note: If you are not installing the RPAS Fusion Client configuration, proceed to step 9.

7. The Fusion Location Information Screen 1 opens.

Figure 2–6 Fusion Location Information Screen 1



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

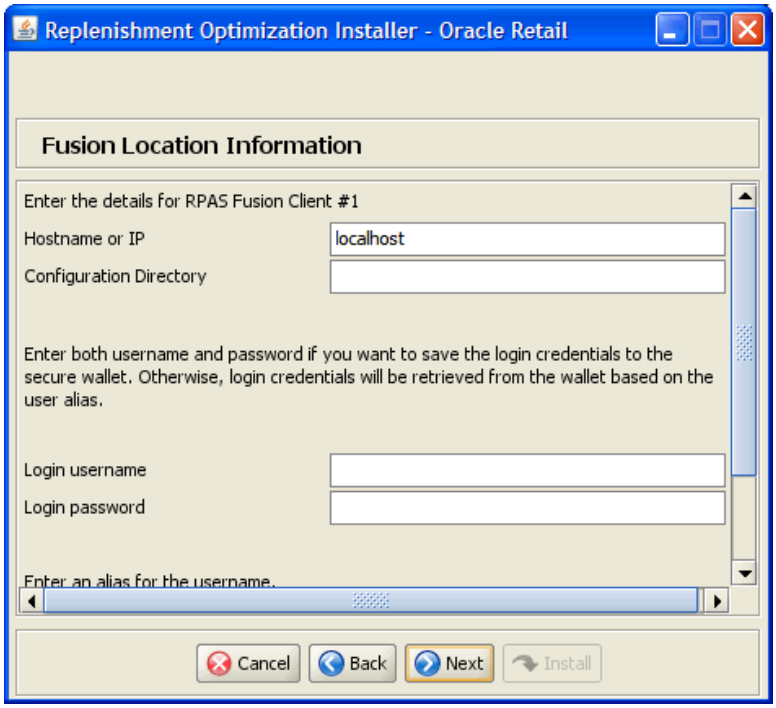
If you are not installing the RPAS Fusion Client configuration, proceed to step 9.

Enter the following information and click **Next** to continue:

- Enter the number of servers running the RPAS Fusion Client where you want to install the RO configuration. If 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 host name and port number of the RPAS server.

8. For each RPAS Fusion Client server, the Fusion Location Information Screen 2 opens.

Figure 2–7 Fusion Location Information Screen 2



Enter the following information and click **Next** to continue:

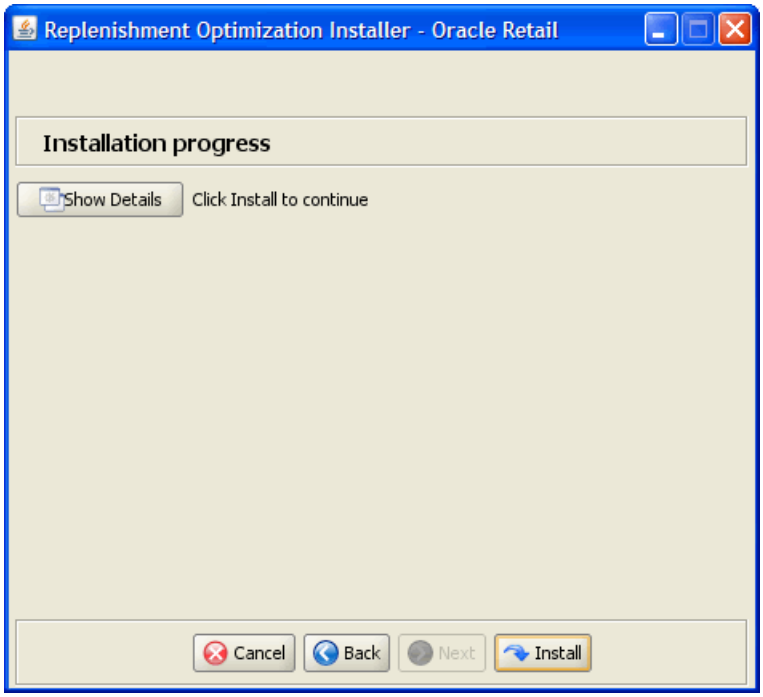
Note: As part of the Oracle Software Security Assurance, sensitive information such as user credentials for the RPAS Fusion Client are encrypted and stored in a secure location in the application installation directory. This location is called the Oracle Wallet.

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

- **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.

9. The Installation Progress Screen opens.

Figure 2–8 Installation Progress Screen



Click **Install** to begin installing RO.

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

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

10. When the installation process is finished, the Complete screen opens. Click **OK**.
    - If you viewed the installation through the graphical progress, you can now click **Show Details** to view the logs.
    - Once you are finished reviewing the installation, click **Exit** button to close the installer application.
    - If you wish to view the log at a later date, a text copy was saved in the directory where you initiated the installation from [RO Installation]/CDROM/ro. The log file is named based on the product and a timestamp, followed by the **.log** extension.

Domain Scripts

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

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

Post Installation Tasks

After you have installed RO, perform the following post installation tasks.

- Before starting the DomainDaemon, you must first source the solution's environment.ksh script. This loads all environment variables required by RPAS to interact with your solution's workbooks. To do this, either in shell or with an addition to your .profile, add **. [Solution Install Dir]/bin/environment.ksh**.
- If you have re-installed RO, you must edit a help file to use the RO online help in the RPAS Fusion Client.

  Manually edit the rgbu_planning_home/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 RO configuration. Skip this section if you chose to install the Fusion Client configuration files using the RO installer.

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

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

```
[RO Installation]/replen_opt/fusion
```

During the Replenishment Optimization 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 Replenishment Optimization 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 Replenishment Optimization installation, you can choose to do one of the following tasks:

- Run the Replenishment Optimization installer again, and select to install only the RPAS Fusion Client configuration.
- Run the RPAS Fusion Client installer again, and specify the Replenishment Optimization 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 RO manually. For more information, see Configuring the RPAS Fusion Client for Replenishment Optimization.

Configuring the RPAS Fusion Client for Replenishment Optimization

This section describes how you can set up a domain connection manually. It describes the optional configuration method that involves setting up the RPAS Fusion Client with the Replenishment Optimization configuration. If you chose to install the Fusion Client configuration files using the Replenishment Optimization installer, you can skip this section.

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

To set up an additional domain connection:

1. Once you have the Replenishment Optimization domain set up, navigate to the following location in the RPAS Fusion Client installation directory:

   ```
   <RPAS_Fusion_Client_Installation>/config/rpas/
   ```

2. In a text editor, edit the ProfileList.xml file, and append a connection specification for your domain in the following syntax:

   ```
   <connection-spec name="{DomainConnectionName}">
    <server-name>{RPASServerName}</server-name>
          <daemon-port>{Port Number}</daemon-port>
           <domain>
        <domain-name>{DomainName}</domain-name>
        <domain-path>{Location where the domain is installed}</domain-path>
           </domain>
   </connection-spec>
   ```

Note: In the example above, placeholders have been used as values for the parameters. Ensure that you replace the placeholders with the relevant values.

Where,

- `connection-spec name` – Name for the connection specification. This matches the name for the taskflow configuration and resource files. Each must have a unique name.
- `server-name` – The host where the RPAS server is installed and the DomainDaemon process is running.
- `daemon-port` – The port specified when starting the DomainDaemon.
- `domain-name` – The name that is displayed to the user on the login screen.
- `domain-path` – Location where the domain is installed.

Note: Multiple domains on the same server can use the same configuration.

3. Save and close the ProfileList.xml file.
4. In the <RPAS_Fusion_Client_Installation>/config directory, create a new folder and specify the domainConnectionName or connection-spec name as the folder name.
5. Navigate to the fusionClient directory located within the directory where the domain is installed. This folder contains the following files that define the taskflow configuration:
   - taskflowBundle.properties
   - taskflow.xml

   When you created the domain using the rpasInstall script, these files were generated based on the taskflow configuration you set up in the RPAS Configuration Tools. For more information on the taskflow configuration, refer to the *RPAS Configuration Tools User Guide*.
6. Copy the two files to the domain name folder you created in step 4.
7. Rename the Taskflow.xml file to include the domain name. The new file name must now read as Taskflow_<domainConnectionName>.xml. Where <domainConnectionName> is the domain connection name or connection-spec name.
8. Create a resources subfolder within this location and move the taskflowBundle.properties file to the resources subfolder.
9. In the resources subfolder, rename the taskflowBundle.properties file to include the domain name. The new file name must now read as <domainConnectionName>Bundle.properties. Where <domainConnectionName> is the domain connection name or connection-spec name.
10. For the changes to take effect, restart the RPAS and WebLogic servers.

3

Patch Installation

This chapter describes how you can upgrade RO from a previous release to 13.2.2.

Upgrade Prerequisites

In order to upgrade RO, 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 on page 1-2.
- 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 the retaillogin.ksh script to set all environment variables. For example:

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

Notes:

- Once you have run the script, verify that all the environment variables 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 you can upgrade RO 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 RO:
   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 MKS KornShell and transfer the **.zip** file to the RPAS server. Note where it is saved. You will need this configuration for Step 2 of the section, "For the Server".

For the Server

1. Upgrade the RPAS server configuration by running the installer:
   a. Begin the installer as described in the Installation Instructions on page 2-4.
   b. Complete steps 1-5.
   c. At step 6, the Install Tasks Screen, clear the **Create RO Domain** check box.
   d. Finish the remaining steps of the installer.
2. Unzip the updated configuration and note where it is extracted. You saved this configuration in Step 5 of the section, "For the PC".
3. Upgrade your RO domain to a 13.2.2 domain. For upgrading instructions, refer to the "Upgrading and Patching Domains" section in the *Oracle Retail Predictive Application Server Administration Guide for the Classic Client or the Oracle Retail Predictive Server 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.

A

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 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 Workspace (ORW)