Oracle® Retail Demand Forecasting

Installation Guide

Release 16.0.1

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Oracle Retail Demand Forecasting Installation Guide, Release 16.0.1

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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 to install an RDF domain using a configuration created with the RPAS Configuration Tools. This document does not describe how to create the actual configuration. Refer to the *Oracle Retail Demand Forecasting Configuration Guide* for information on creating a configuration.

Supplemental Installation Guides

Supplemental installation guides are referenced in this document. These guides must be obtained before beginning the installation process:

- *Oracle Retail Predictive Application Server Installation Guide*
- *Oracle Retail Predictive Application Server Administration Guide for the Classic Client*
- *Oracle Retail Predictive Application Server Administration Guide for the Fusion Client*
- *Oracle Retail Predictive Application Server Configuration Tools User Guide*

Read these documents in their entirety before starting the installation.

Audience

This document is intended for an Management Information System (MIS) administrator that needs to install the RPAS software and create RDF domains.

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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Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit
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http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

Related Documents

For more information, see the following documents in the Oracle Retail Demand Forecasting Release 16.0.1 documentation set:

- *Oracle Retail Demand Forecasting Implementation Guide*
- *Oracle Retail Demand Forecasting Installation Guide*
- *Oracle Retail Demand Forecasting Release Notes*
- *Oracle Retail Demand Forecasting User Guide for the RPAS Classic Client*
- *Oracle Retail Demand Forecasting User Guide for the RPAS Fusion Client*
- Oracle Retail Predictive Application Server documentation

The following documentation may also be needed when implementing RDF:

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

Supplemental Documentation

The following document is available through My Oracle Support at the following URL: https://support.oracle.com

Oracle Retail Demand Forecasting 16.0.1 Cumulative Fixed Issues (Note ID 2264626.1)

This document details the fixed issues and defects for all RDF, Curve, and Grade patch releases prior to and including the current release.

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
- Screenshots of each step you take

Review Patch Documentation

When you install the application for the first time, you install either a base release (for example, 16.0) or a later patch release (for example, 16.0.1). If you are installing the base release, additional patch, and bundled hot fix releases, read the documentation for all releases that have occurred since the base release before you begin installation. Documentation for patch and bundled hot fix releases can contain critical information related to the base release, as well as information about code changes since the base release.

Improved Process for Oracle Retail Documentation Corrections

To more quickly address critical corrections to Oracle Retail documentation content, Oracle Retail documentation may be republished whenever a critical correction is needed. For critical corrections, the republication of an Oracle Retail document may at times not be attached to a numbered software release; instead, the Oracle Retail document will simply be replaced on the Oracle Technology Network Web site, or, in the case of Data Models, to the applicable My Oracle Support Documentation container where they reside.

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

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

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

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

Oracle Retail Documentation on the Oracle Technology Network

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

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

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

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
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

Full Installation

This document provides instructions on installing Oracle Retail Demand Forecasting. It provides detailed instructions on how to install a Demand Forecasting (RDF) domain using a configuration created through the RPAS Configuration Tools. This document does not describe how to create the actual configuration.

> **Note:** 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 before beginning the installation process. Read these documents in their entirety before starting the installation.

Read through this document completely before performing the installation steps.

Hardware and Software Requirements

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

Table 1–1 provides information on the hardware and software requirements for RDF, Curve, and Grade:

Table 1–1 Hardware and Software Requirements

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

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

Supported Oracle Retail Products

This sections lists the supported Oracle Retail products for RDF, Curve, and Grade.

RDF Supported Oracle Retail Products

Table 1–2 provides information about the supported Oracle Retail products for RDF.

Table 1–2 RDF Supported Oracle Retail Products

Product	Version
Oracle Retail Advanced Inventory Planning	16.0.1
Oracle Retail Analytic Parameter Calculator for Replenishment Optimization (APC-RO)	15.0
Oracle Retail Analytic Parameter Calculator for Regular Price Optimization (APC-RPO)	16.0.1
Oracle Retail Merchandising System (RMS)	16.0.1
Oracle Retail Replenishment Optimization (RO)	16.0.1
Oracle Retail Regular Price Optimization (RPO)	16.0.1
Oracle Retail Advanced Science Engine (ORASE)	16.0.1
Oracle Retail Cross Promotion Effects Module (CPEM)	16.0.1

Curve Supported Oracle Retail Products

Table 1–3 provides information about Oracle Retail products that are supported for Curve.

Table 1–3 Curve Supported Oracle Retail Products

Product	Version
Oracle Retail Allocation	16.0.1

Grade Supported Oracle Retail Products

Table 1–4 provides information about Oracle Retail products that are supported for Grade.

Table 1–4 Grade Supported Oracle Retail Products

Product	Version
Oracle Retail Merchandising System (RMS)	16.0.1

Requesting Infrastructure Software

If you are unable to find the necessary version of the required Oracle infrastructure software (database server, application server, WebLogic, and so on.) on the Oracle

Software Delivery Cloud, you should file a non-technical 'Contact Us' Service Request (SR) and request access to the media. For instructions on filing a non-technical SR, see My Oracle Support Note 1071023.1 – *Requesting Physical Shipment or Download URL for Software Media*.

Installing RDF on 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 RPAS Installer automates the following tasks:

- Installs the RPAS server components
- Installs Configuration Tools on the server
- Defines the DomainDaemon port

The RDF Installer automates the following tasks:

- Installs the RDF configuration
- Installs RDF plug-ins for the Configuration Tools
- Installs Language Translation files
- Creates a sample RDF domain

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.

Note: This document assumes that the RPAS Installer process (from the *Oracle Retail Predictive Application Server Installation Guide*) has been completed prior to using the RDF 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.

Note: Before installing RDF, confirm that RPAS and all subsequent patches have been successfully applied.

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 and space ". ":

. /<base_directory>/retaillogin.ksh

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

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

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

HP Itanium

If you are installing any RPAS solution on HP Itanium or Sun 10, you need to set the 64-bit Configuration Tools environment variable for Java as shown:

```
export RIDE_OPTIONS=-d64
```

Downloading and Extracting the RDF/CPEM Media Pack

The following procedure provides information about extracting the RDF/CPEM media pack and its contents:

1. Create a directory to store the RDF/CPEM media pack and download the media pack to this location. This directory will be referred to as **[RDF Installation]**.
2. Extract the media pack to this location. Once extracted, two directories appear, **CDROM** and **DOCS**.

   The **CDROM** folder contains the following ZIP files:

   - `RDF.zip` - This file contains the RDF solution.
   - `CPEM.zip` - This file contains the CPEM solution.

   The **DOCS** folder contains the README.html.

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

Extracting the RDF/CPEM Installation Package

Complete these steps to extract the installation package:

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

   ```
   cd [RDF Installation]

   unzip [RDF Package]
   ```

4. Extract the RDF Installer.

```
cd CDROM
unzip RDF.zip
```

Installation Instructions

Perform the following steps to install RDF.

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

1. Begin the Installer by first changing to the root of the **[RDF Installation]** directory and running the following command:

```
./install.sh
```

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

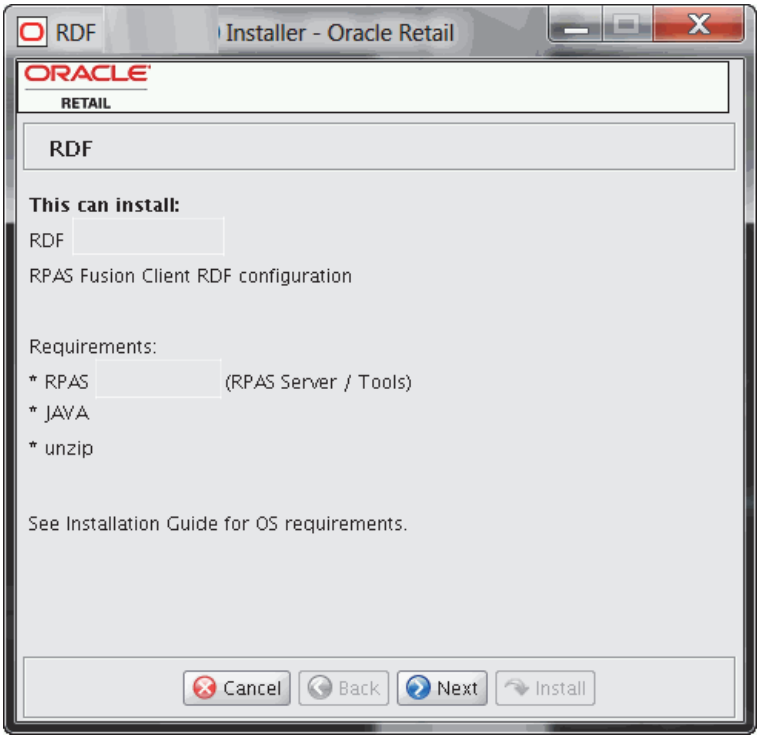
If this process is being run on an X-Windows emulator (such as Exceed), a GUI to the Installer appears. If you are running in console mode through a terminal emulator, a text interface to the Installer appears.

In both cases, the requested information is identical, but displayed differently. In the GUI, a check box may appear to signal whether or not you want a component installed. In text mode, a response of yes or no may be required.

> **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 RDF Installer Window opens and shows the components that are installed during installation process as well as other required components. Click **Next** to continue.

Figure 1–1 RDF Installer Window



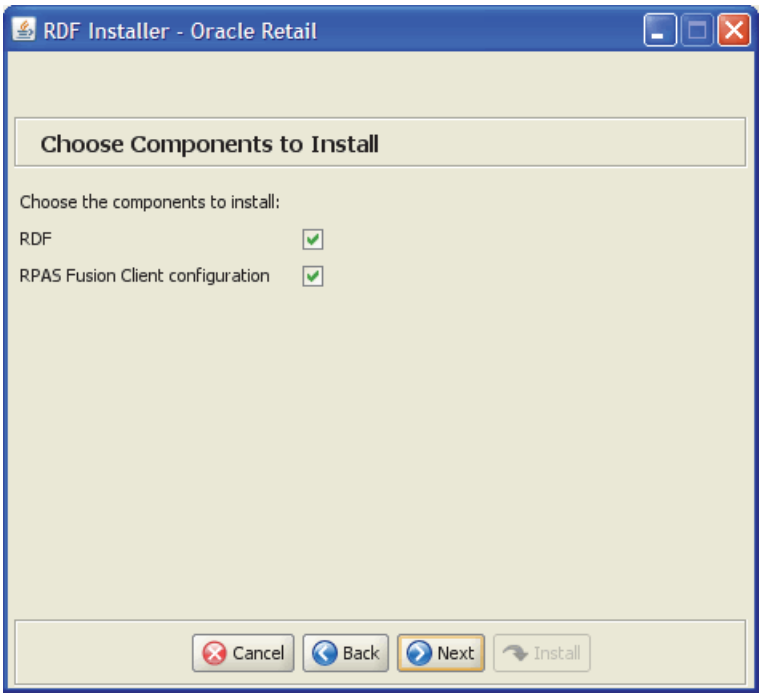
Note: When logging is on and the verbose setting is used for the new 3rd party approved version of Java Secure Channel (JSch), the following message displays, "*Caught an exception, leaving main loop due to Socket closed*".

This message has no impact on the installer and should be ignored.

---

3. The RDF Choose Components to Install Window opens.

Figure 1–2 RDF Choose Components to Install Window



Select one or both of the following options:

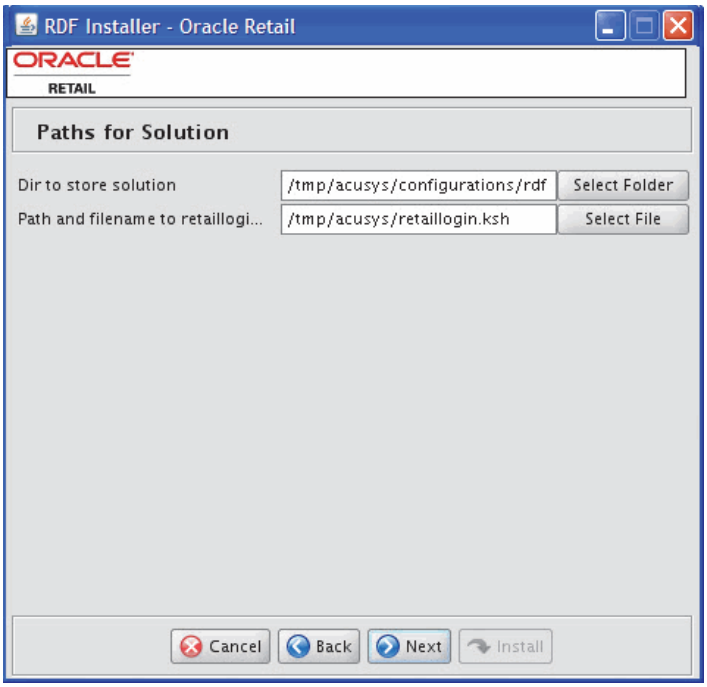
- **RDF** – Select this option to install the RDF solution with the domain.
- **RPAS Fusion Client configuration** – Select this option to install the RPAS Fusion Client RDF configuration.

If You Are...	Then....
Not installing the RPAS Fusion Client RDF configuration.	Clear the RPAS Fusion Client configuration check box and skip steps 6 and 7.
Not installing the RDF solution, but are installing the RPAS Fusion Client RDF configuration.	1. Clear the RDF check box and select the RPAS Fusion Client configuration check box. 2. After installation, you must update the domain-path entry in the `Foundation.xml` on the RPAS Fusion Client server. 3. In the `Foundation.xml`, change `${input.RDF.dir}` to your RDF domain path.

Click **Next** to continue.

4. The RDF Base Paths for Solution Window opens.

Figure 1–3 RDF Base Paths for Solution Window



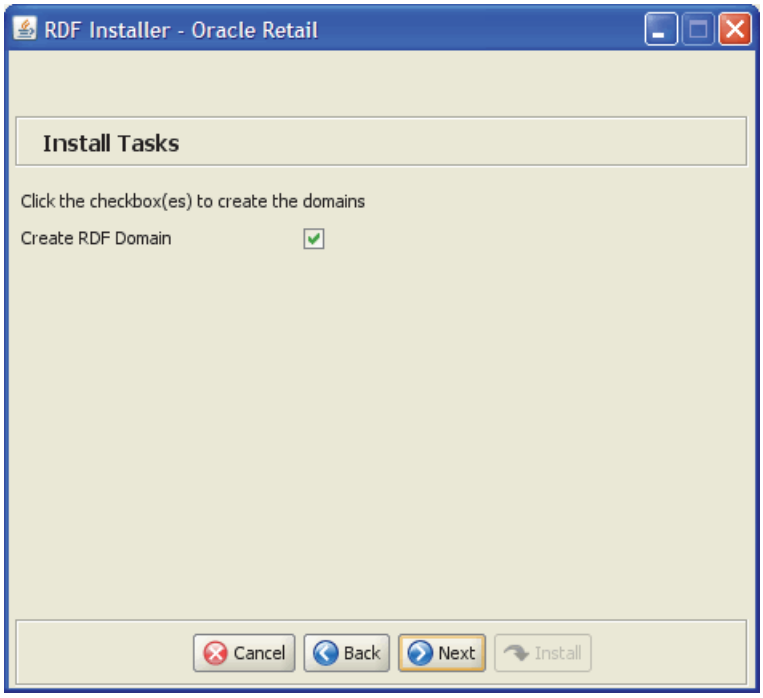
Note: Ensure that the installation paths are located outside of the installer directory **[RDF_Installer]**.

Enter the following path information and click **Next**:

- **Dir to store configurations** - Enter the target directory to store the configurations.
- **Dir to store created domains** - Enter the target directory used to store created domains.
- **Path and file name to the retaillogin.ksh script** - Enter the path and file name where the `retaillogin.ksh` script was created during RPAS installation.

5. The RDF Install Tasks Window opens.

Figure 1–4 RDF Install Tasks Window



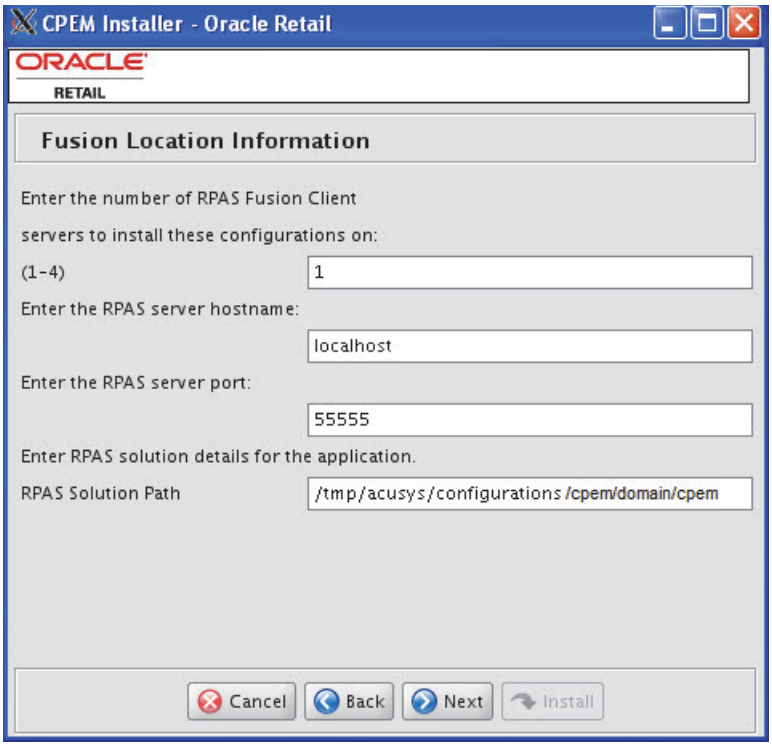
If You Want to....	Then....
Create the RDF domain	Select **Create RDF Domain** and click **Next**.
Install all required components to support the RDF domain, but not create the actual RDF domain	Clear the **Create RDF Domain** check box and click **Next**.

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

For more information about the `retaillogin.ksh` script, refer to the section: "Environment Variable Setup Script".

6. The RDF Fusion Location Information Window opens.

Figure 1–5 RDF Fusion Location Information Window



Enter the relevant information in the following fields:

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

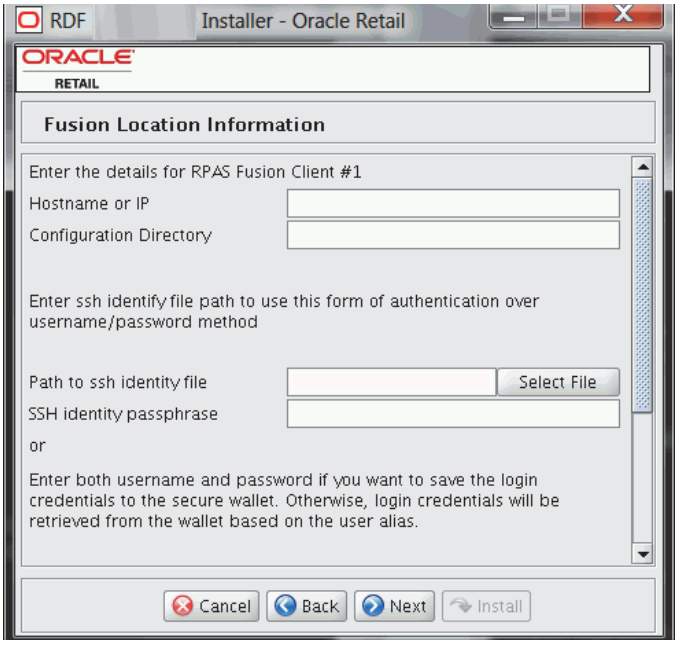
Note: The RDF Fusion Location Information Window opens when you select the RPAS Fusion Client configuration check box on the Choose Components to Install Window.

If you are not installing the RPAS Fusion Client configuration, proceed to step 8.

Click **Next** to continue.

7. Based on the number of servers you entered, the RDF Fusion Location Information (Details) Window opens.

Figure 1–6 RDF Fusion Location Information (Details) Window



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

Note: The authentication provided needs to be either:

Path to SSH identity file and SSH identity passphrase

or

Login username, Login password, and Login username alias

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

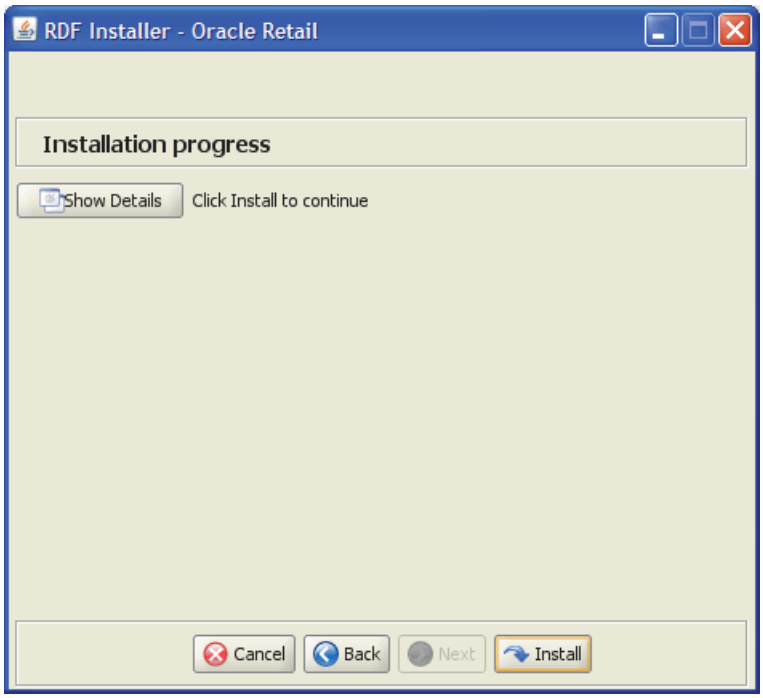
Note: Information such as user credentials for the RPAS Fusion Client is encrypted and stored in a secure location in the application installation directory. This location is called the Oracle Wallet.

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

Click **Next** to continue.

8. The RDF Installation Progress Window opens.

Figure 1–7 RDF Installation Progress Window



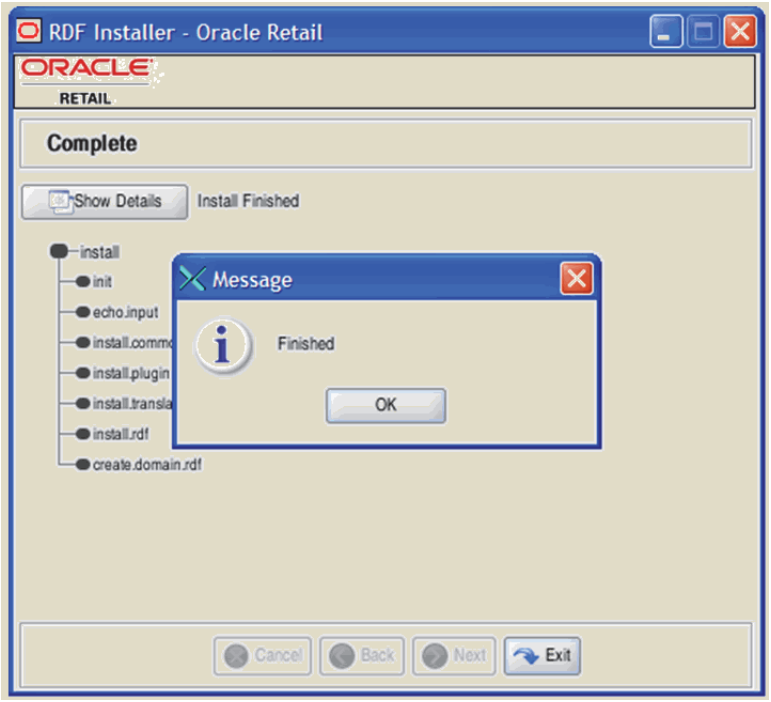
To display the progress of the components and tasks being performed by the Installer, click **Show Details**. Click **Install** to start the installation process.

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

Note: If you chose to create the RDF global domain, installation time might take 30 to 60+ minutes depending on server specifications.

9. When the installation process is complete, the RDF Complete Window opens a Message dialog box. Click **OK** to close the dialog box.

Figure 1–8 RDF Complete Window



10. To view the installation details, click **Show Details**. The window displays two tabs, the Output tab and the Error tab. It is recommended that you review these tabs for any issues that may have occurred during the installation process.

    If you wish to view the log again at a later date, a text copy was saved in the directory **[RDF Installation]**. The log file is named based on the product and time installer, followed by the `.log` extension.

    The `make_domain.rdf` file, located in the **[Configurations Install Dir]** entered during the install, is created during the installation process. This file contains all of the required parameters needed to support domain installation. If necessary this file may be modified if the default parameters are not appropriate for your particular environment.

    Note: When reviewing Installer output or logs, you may see the following message: *[scp] Caught an exception, leaving main loop due to Socket closed*. This message is harmless and does not indicate failure.

    Note: The domain install process also includes postinstallation data loading scripts specific to the RDF configuration. These scripts may also be modified.

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

Postinstallation Tasks

After you have installed RDF, perform the following postinstallation tasks.

- Start the DomainDaemon.

- Set $RDF_HOME

  export RDF_HOME=$RPAS_HOME

- If you are on AIX and you have re-installed RDF, you must edit a help file to use the RDF online help in the RPAS Fusion Client. Manually edit the `[fusion client installation dir]/config/Help/ohwconfig.xml` file by removing the following duplicate line:

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

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

Configuration Files for the RPAS Fusion Client

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

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

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

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

[RDF Installation]/rdf/fusion

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

During the RDF 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 RDF installation:

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

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

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

Taskflow Files

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

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

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

2

Patch Installation

When upgrading RDF, use the upgrade option that corresponds best to your system's requirements. Refer to the "Upgrading RDF" appendix in the *Oracle Retail Demand Forecasting Implementation Guide* for additional information.

> **Note:** Before patching an RDF domain, refer to Appendix A, "Patching RDF Domains," in this guide as well as the "Upgrading RDF" appendix in the *Oracle Retail Demand Forecasting Implementation Guide*.

This chapter includes the following sections:

RDF Upgrade Prerequisites

In order to upgrade RDF, 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," in the *Oracle Retail Demand Forecasting Implementation Guide*.
- Verify that the UNIX operating system is updated to the currently supported version. Refer to the "Hardware and Software Requirements" section of the Oracle Retail Predictive Application Server Installation Guide.
- Verify that the environment variables are correctly set for both the server and PC; if they are not, follow these instructions to set them:
  - Change directories to the original RPAS installation directory (such as the one created by the most recent installer), and run `retaillogin.ksh` to set all environment variables. For example:

    ```
    $ cd /retail

    $ ../retaillogin.ksh
    ```
- Remove the empty workbook tab as described in the section, "Tab Removal" in the *Oracle Retail Demand Forecasting Implementation Guide*.

Notes: Once 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 RDF to the current version using the RPAS Configuration Tools.

Note: After upgrading a domain or loading a new calendar hierarchy into the RDF domain, ensure that the current date measures value is within the new calendar hierarchy.

Extraction

The steps in this section only apply if you have a previous version of RDF.

The first step in upgrading to the most recent installation is to download the current upgrade from the My Oracle Support Web site (`http://www.oracle.com/support/`) to a staging folder (such as **$PACKAGEDIR**) that is accessible to all components of your current RPAS/RDF environment.

In this section, some steps must be performed on a server as well as on a Windows PC that has RPAS Configuration Tools installed. For brevity, the server is referred to as *server* and the Windows PC with RPAS Configuration Tools is referred to as *PC*.

Server Package Extraction

The following example describes a sample upgrade extraction to the server. These sample server commands are provided to guide you through the file extraction process and to identify the files provided in this upgrade.

1. Open a terminal session on the server that contains the RPAS environment.
2. Enter the following commands:

   ```
   $ mkdir packagedir

   $ cp RDF.zip packagedir

   $ cd packagedir

   $ export PACKAGEDIR=`pwd`

   $ unzip RDF.zip
   ```

   Upon extracting, the following directories are present:

   - `configurations`
   - `plugins`
   - `data`

3. Leave the terminal session window open for the RDF upgrade process described in the section, "Upgrade and Patch to RPAS Release 13.3 or Later "in the *Oracle Retail Demand Forecasting Implementation Guide*.

There are two options by which you can install the RDF patch, either:

- Run the installer (which is present in the package)

  Follow the instructions as in full installation. Clear the option when prompted to build an RDF domain (as you already have an RDF domain).

- Manually copy the Configuration and the plug-ins from the package.

> **Note:** For detailed information on patching an RDF domain, refer to Appendix A, "Patching RDF Domains.".

PC Package Extraction

The following example describes a sample upgrade extraction to a PC. These sample commands are provided to guide you through the file extraction process and to identify the files provided in this upgrade.

> **Note:** The following package structure listed is for a patch release. The package structure for a hotfix is slightly different and it does not include the installer.

1. Using Cygwin, enter the following commands:

   ```
   $ mkdir packagedir

   $ cp RDF.zip packagedir

   $ cd packagedir

   $ export PACKAGEDIR=`pwd`

   $ unzip RDF.zip
   ```

   Upon extracting, the following directories are present:

   - `configurations`
   - `plugins`
   - `data`

2. Unzip the PlugIn.zip file by running the following commands:

   ```
   $  unzip PlugIn.zip
   ```

   The following directory is extracted to the current directory:

   - `resources/`

3. Leave the Cygwin window open for the RDF upgrade process discussed in the section, “Upgrade and Patch to RPAS Release 13.3 or Later” in the *Oracle Retail Demand Forecasting Implementation Guide*.

3

CPEM Installation

This document provides instructions on installing Oracle Retail Cross Promotion Effects Module (CPEM). It provides detailed instructions on how to install a CPEM domain using a configuration created through the RPAS Configuration Tools. This document does not describe how to create the actual configuration.

> **Note:** 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 before beginning the installation process. Read these documents in their entirety before starting the installation.

Read through this document completely before performing the installation steps.

Hardware and Software Requirements

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

Table 3–1 provides information on the hardware and software requirements for CPEM:

Table 3–1 Hardware and Software Requirements

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

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

Supported Oracle Retail Products

This section lists the supported Oracle Retail products for CPEM.

CPEM Supported Oracle Retail Products

Table 3–2 provides information about the supported Oracle Retail products for CPEM.

Table 3–2 CPEM Supported Oracle Retail Products

Product	Version
Oracle Retail Demand Forecasting (RDF)	16.0.1

Requesting Infrastructure Software

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

Installing CPEM on 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 RPAS Installer automates the following tasks:

- Installs the RPAS server components
- Installs Configuration Tools on the server
- Defines the DomainDaemon port

The CPEM Installer automates the following tasks:

- Installs the CPEM configuration
- Installs CPEM plug-ins for the Configuration Tools
- Installs Language Translation files
- Creates a sample CPEM domain

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.

Note: This document assumes that the RPAS Installer process (from the *Oracle Retail Predictive Application Server Installation Guide*) has been completed prior to using the CPEM 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.

Note: Before installing CPEM, confirm that RPAS and all subsequent patches have been successfully applied.

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 and space ". ":

. /<base_directory>/retaillogin.ksh

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

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

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

HP Itanium

If you are installing any RPAS solution on HP Itanium or Sun 10, you need to set the 64-bit Configuration Tools environment variable for Java as shown:

```
export RIDE_OPTIONS=-d64
```

Downloading and Extracting the RDF/CPEM Media Pack

The following procedure provides information about extracting the RDF/CPEM media pack and its contents:

1. Create a directory to store the RDF/CPEM media pack and download the media pack to this location. This directory will be referred to as **[RDF Installation]**.

2. Extract the media pack to this location. Once extracted, two directories appear, **CDROM** and **DOCS**.

   The **CDROM** folder contains the following ZIP files:

   - `RDF.zip` - This file contains the RDF solution.
   - `CPEM.zip` - This file contains the CPEM solution.

   The **DOCS** folder contains the RDF documentation. Within the **DOCS** you can find the RDF Guides, including:

   - Release Notes - This folder contains the *Oracle Retail Demand Forecasting Release Notes*.
   - Installation Guide - This folder contains the *Oracle Retail Demand Forecasting Installation Guide*.

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

Extracting the RDF/CPEM Installation Package

Complete these steps to extract the installation package:

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

   ```
   cd [CPEM Installation]

   unzip [CPEM Package]
   ```

4. Extract the CPEM Installer.

   ```
   cd CDROM

   unzip CPEM.zip
   ```

Installation Instructions

Complete these steps to install CPEM:

1. Begin the Installer by first changing to the root of the **[CPEM Installation]** directory and running the following command:

   ```
   ./install.sh
   ```

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

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

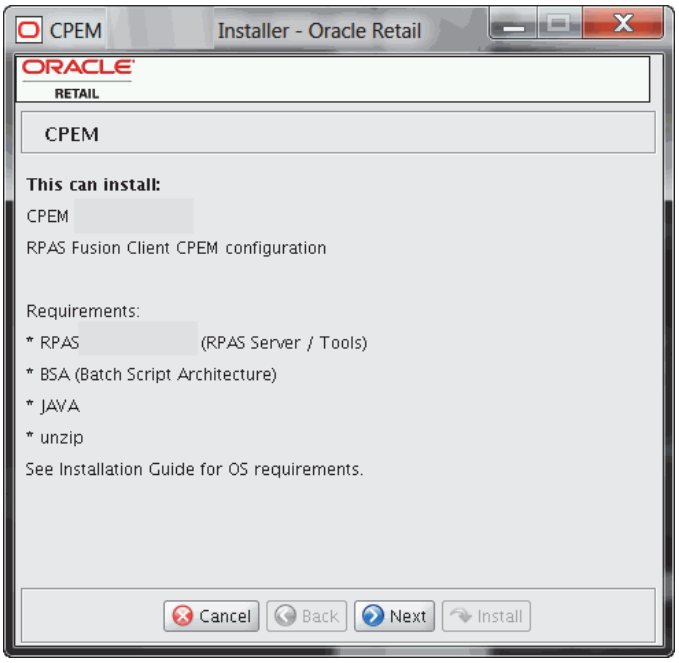
In both cases, the requested information is identical, but displayed differently. In the GUI, a check box may appear to signal whether or not you want a component installed. In text mode, a response of yes or no may be required.

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**.

---

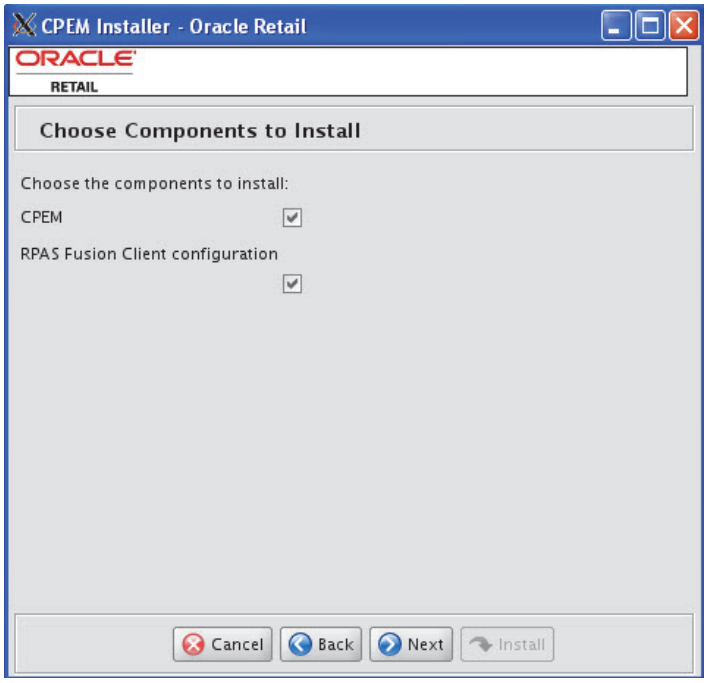
2. The CPEM Installer Window opens and shows the components that are installed during installation process as well as other required components. Click **Next** to continue.

Figure 3–1 CPEM Installer Window



3. The CPEM Choose Components to Install Window opens.

Figure 3–2 CPEM Choose Components to Install Window



Select one or both of the following options:

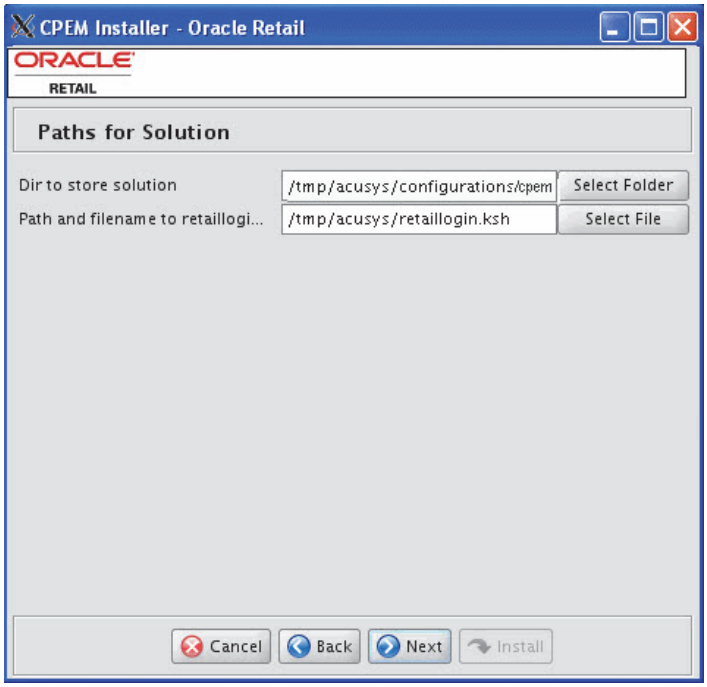
- **CPEM** – Select this option to install the CPEM solution with the domain.
- **RPAS Fusion Client configuration** – Select this option to install the RPAS Fusion Client CPEM configuration.

If You Are...	Then....
Not installing the RPAS Fusion Client CPEM configuration.	Clear the RPAS Fusion Client configuration check box and skip steps 6 and 7.
Not installing the CPEM solution, but are installing the RPAS Fusion Client CPEM configuration.	1. Clear the CPEM check box and select the RPAS Fusion Client configuration check box. 2. After installation, you must update the domain-path entry in the `Foundation.xml` on the RPAS Fusion Client server. 3. In the `Foundation.xml`, change ${input.CPEM.dir} to your CPEM domain path.

Click **Next** to continue.

4. The CPEM Base Paths for Solution Window opens.

Figure 3–3 CPEM Base Paths for Solution Window



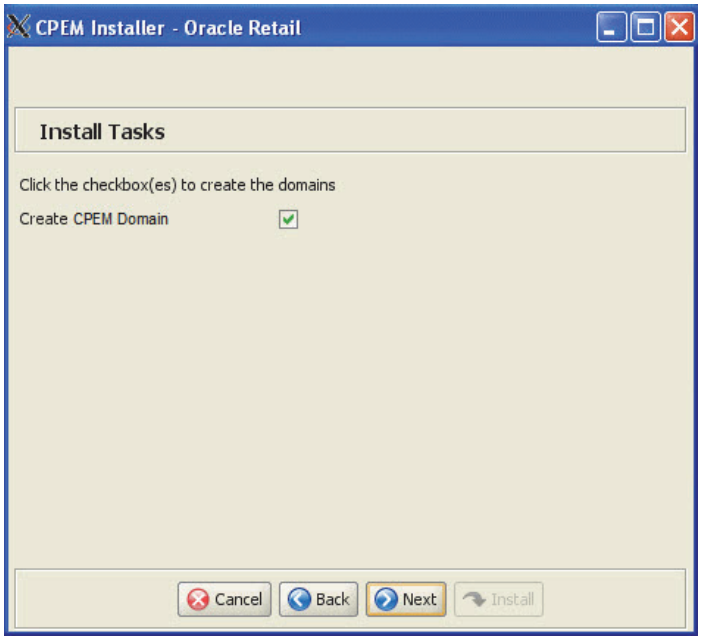
Note: Ensure that the installation paths are located outside of the installer directory **[CPEM_Installer]**.

Enter the following path information and click **Next**:

- **Dir to store configurations** - Enter the target directory to store the configurations.
- **Dir to store created domains** - Enter the target directory used to store created domains.
- **Path and file name to the retaillogin.ksh script** - Enter the path and file name where the `retaillogin.ksh` script was created during RPAS installation.

5. The CPEM Install Tasks Window opens.

Figure 3–4 CPEM Install Tasks Window



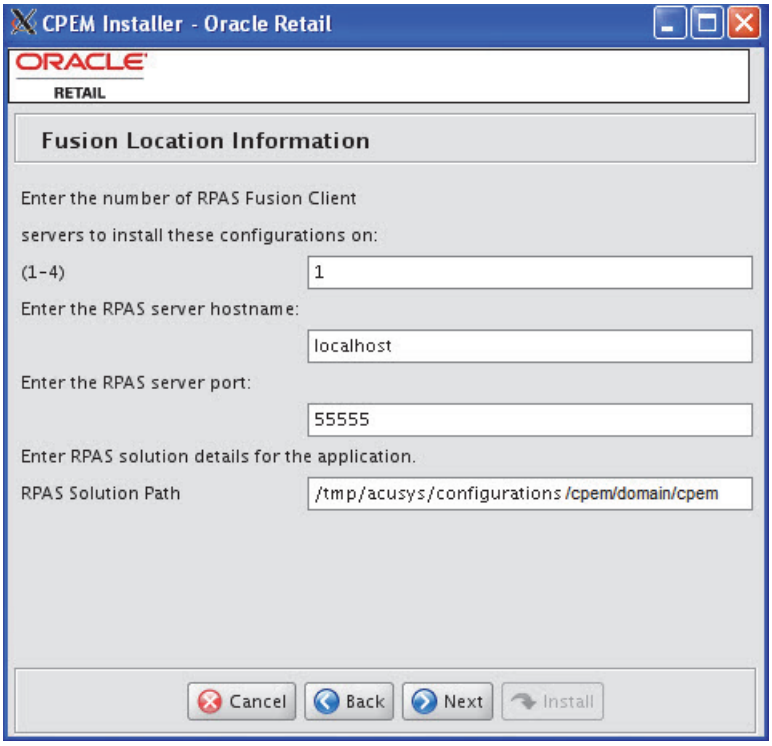
If you want to....	Then....
Create the CPEM domain	Select **Create CPEM Domain** and click **Next**.
Install all required components to support the CPEM domain, but not create the actual CPEM domain	Clear the **Create CPEM Domain** check box and click **Next**.

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

For more information about the `retaillogin.ksh` script, refer to the section: "Environment Variable Setup Script".

6. The CPEM Fusion Location Information Window opens.

Figure 3–5 CPEM Fusion Location Information Window



Enter the relevant information in the following fields:

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

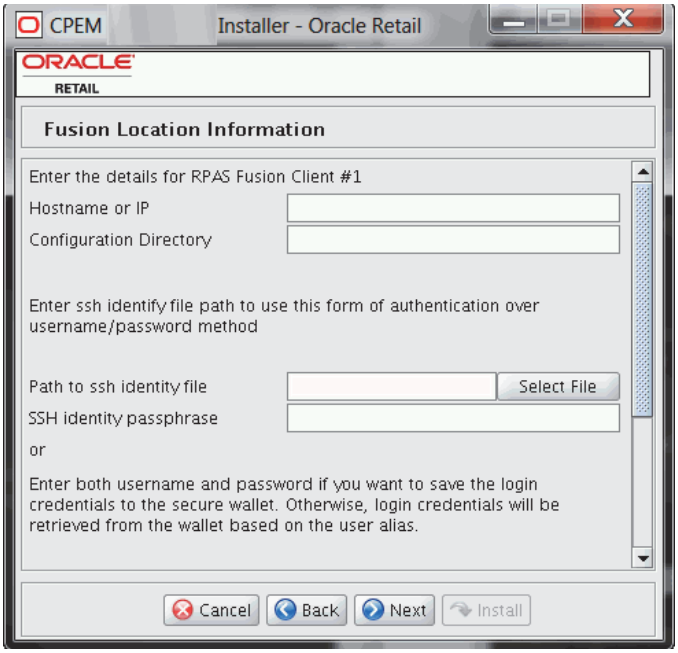
Note: The CPEM Fusion Location Information Window opens when you select the RPAS Fusion Client configuration check box on the Choose Components to Install Window.

If you are not installing the RPAS Fusion Client configuration, proceed to step 8.

Click **Next** to continue.

7. Based on the number of servers you entered, the CPEM Fusion Location Information (Details) Window opens.

Figure 3–6 CPEM Fusion Location Information (Details) Window



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

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

Click **Next** to continue.

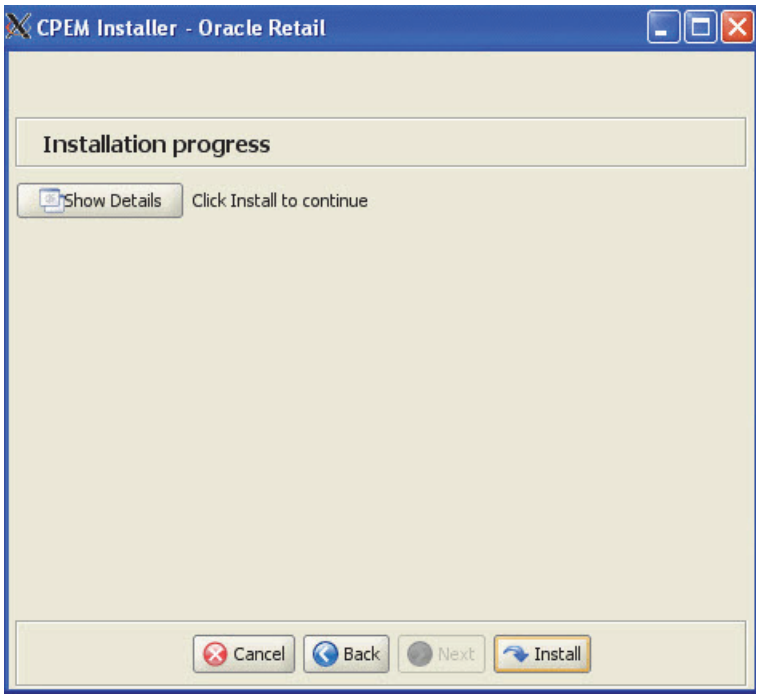
Note: Information such as user credentials for the RPAS Fusion Client is encrypted and stored in a secure location in the application installation directory. This location is called the Oracle Wallet.

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

---

8. The CPEM Installation Progress Window opens.

Figure 3–7 CPEM Installation Progress Window



To display the progress of the components and tasks being performed by the Installer, select **Show Details**. Click **Install** to start the installation process.

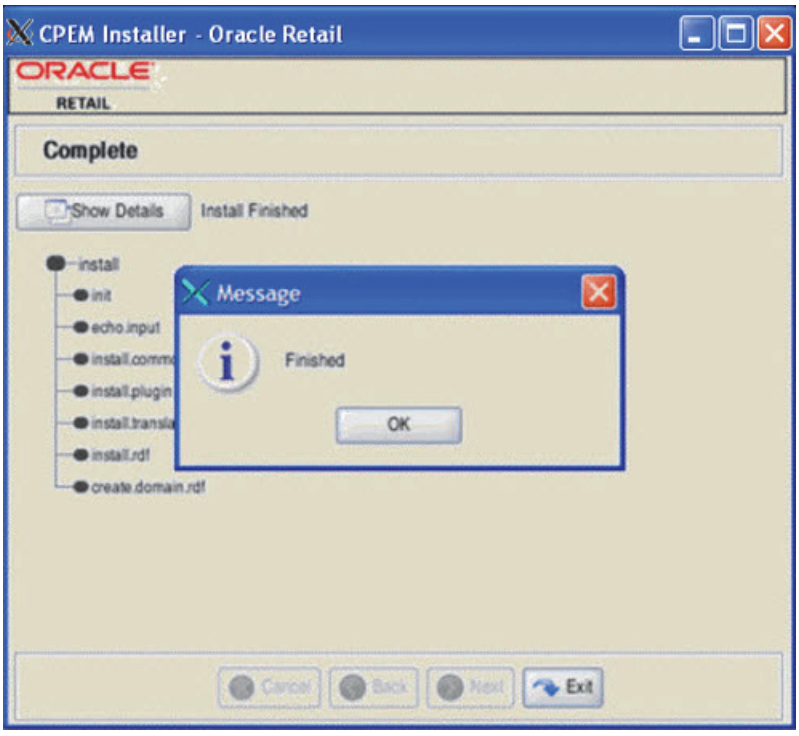
You can view the detailed mode at any time during or after the installation.

Note: If you chose to create the CPEM domain, installation time might take 30 to 60+ minutes depending on server specifications.

---

9. When the installation process is complete, the CPEM Complete Window opens with a Message dialog box. Click **OK** to close the dialog box.

Figure 3–8 CPEM Complete Window



10. To view the installation details, click **Show Details**. The window displays two tabs, the Output tab and the Error tab. It is recommended that you review these tabs for any issues that may have occurred during the installation process.

    If you wish to view the log again at a later date, a text copy was saved in the directory **[CPEM Installation]**. The log file is named based on the product and time installer, followed by the `.log` extension.

    The `make_domain.cpem` file, located in the **[Configurations Install Dir]** entered during the install, is created during the installation process. This file contains all of the required parameters needed to support domain installation. If necessary this file may be modified if the default parameters are not appropriate for your particular environment.

    Note: When reviewing Installer output or logs, you may see the following message: *[scp] Caught an exception, leaving main loop due to Socket closed.* This message is harmless and does not indicate failure.

    Note: The domain install process also includes postinstallation data loading scripts specific to the CPEM configuration. These scripts may also be modified.

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

Postinstallation Tasks

After you have installed CPEM, perform the following postinstallation tasks.

- Start the DomainDaemon.

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 CPEM configuration. If you chose to install the Fusion Client configuration files using the CPEM installer, you can skip this section.

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

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

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

[CPEM Installation]/cpem/fusion

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

During the CPEM 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 CPEM installation:

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

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

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

Taskflow Files

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

If you selected the option to build a domain, you will find two taskflow files (`taskflow.xml` and the `taskflowBundle.properties` resource file) in the fusionClient subdirectory within the domain. For information about how to use these files to configure the Multi-solution Taskflow, refer to the section, "Postinstallation

Configuration" in the *Oracle Retail Predictive Application Server Administration Guide for the Fusion Client*.

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

A

Patching RDF Domains

Before patching an RDF domain, confirm that the necessary RPAS client, server and Configuration Tools patch updates have been successfully applied. Refer to the *Oracle Retail Predictive Application Server Installation Guide* for RPAS installation instructions.

Patching an RDF Domain

> **Note:** When patching an RDF domain, you need the same `-rf` arguments of rpasInstall as a full install of the domain
>
> (For example: `-rf AppFunctions -rf RdfFunctions -rf LostSaleFunctions -rf ClusterEngine`)

Complete the following steps to patch your RDF domain.

> **Note:** The RDF plug-in now supports changing forecast level intersections in patching. This enhances the currently existing ability to change forecast data sources. However, the RDF plug-in does not support addition or removal of forecast or promotion levels.

1. Extract the RDF patch.
   a. Create a directory to store the RDF/CPEM media pack on the target server. This directory will be referred to as **[RDF Installation]**. It is the location where the RDF installation routine is run.
   b. Download the package from My Oracle Support (`https://support.oracle.com`). Using FTP in binary mode, transfer the RDF/CPEM media pack to the **[RDF Installation]** directory on the target server.
   c. Extract the package to the folder **[RDF Installation]** directory.

      ```
      cd [RDF Installation]

      unzip [RDF Package]
      ```

   d. Extract the RDF Installer.

      ```
      cd CDROM

      unzip RDF.zip
      ```

2. Copy the RDF plug-in to the Configuration Tools.

The RDF plug-in enables the RDF solution to be configured using the RPAS Configuration Tools. It also supports the domain installation process.

a. Locate the plug-in directory by changing to the root of the **[RDF Patch Install]** directory.

b. Navigate to **[RDF Patch Install]/CDROM/rdf/rdf/plugin/** and copy the resources directory to the Configuration Tools installation ($RIDE_HOME).

3. Make a copy of the `taskflow.xml` of the old configuration before running regeneration

   All the RDF plug-ins are no longer generating taskflow files. The taskflow is expected to be created manually. Each RDF implementor will create their own taskflow. The regeneration of RDF configuration will void the previous taskflow information. This four step process should be followed to preserve taskflow information:

   a. Regenerate the configuration using RDF plug-ins and save the configuration.

   b. Copy the saved taskflow.xml back.

   c. Adjust the taskflow if necessary (in case the plug-ins introduced new worksheets or workbooks).

4. Using the Configuration Tools on a Windows machine, auto-generate all the solutions that are implemented.

   It is necessary to open the configuration in the patched version of the RPAS Configuration Tools and auto-generate each of the existing solution extension configurations on a Windows machine. This auto-generation step is also required if you are making a change to your existing configuration of a RDF, Curve, Promote, or Grade solution.

   If the customer's configuration has been customized, extra care is need to make sure that the customization is not wiped out by auto-generation. The RPAS configuration manager can be used to compare the newly generated configuration with the old configuration.

   Note: When using the RPAS Configuration Manager to merge changes in a RDF Configuration, changes in the plug-in data used to generate the configuration can greatly complicate the merge process. If possible, ensure that all three configurations used by the RPAS Configuration Manager are auto-generated with the same plug-in data.

   ---

5. Copy the configuration files to the domain server.

   - Copy the updated configuration files from the Windows machine to the domain server. The location on the domain server should have the same structure as the Windows machine used to auto-generate the solution extensions.
   - If you are using WinZip to archive the configuration files, you must use unzip `-a` to unzip the archive on the UNIX server.

6. If you do not specify domain paths during the RPAS patching process, then run the RPAS `upgradeDomain` utility.

For information on the `upgradeDomain` utility, refer to either the Classic Client or Fusion Client version of the *Oracle Retail Predictive Application Server Administration Guide*.

7. To patch the RDF domain:

   a. Set $RDF_HOME

      export RDF_HOME=$RPAS_HOME

   b. Edit the following path parameters, then copy/paste entire section on the command line (selecting either patch or build).

      Note: Run the script from the **$RPAS_HOME/bin** directory. For additional information about the `rdf_build_domain.ksh` parameters, refer to Table K–1: **Flags for the Script rdf_build_domain.ksh** in the *Oracle Retail Demand Forecasting Implementation Guide.*

      [Patch]

      (m = # of maxProcesses) (p = indicates patchInstall)

      ```
      rdf_build_domain.ksh \
          -c /configPath \
          -i /inputPath \
          -l /logPath \
          -f patch_domain.log \
          -d /domainPath \
          -m 2 \
          -p
      ```

      [Build]

      ```
      rdf_build_domain.ksh \
          -c /configPath \
          -i /inputPath \
          -l /logPath \
          -f build_domain.log \
          -d /domainPath \
          -m 2
      ```

   c. CD to log file specified in script parameters, then tail to verify successful run

      $ tail -f patch_domain.log

B

Creating a Global Domain Configuration Directory (Optional)

This appendix describes the optional process to create a Global Domain Configuration Directory.

Using globaldomainconfig.xml to Partition and Label Domains

If you are installing a Global Domain environment, an xml file may be created to determine how the domains will be partitioned and the label of each domain. If you take this approach, the `-configdir` option should be used when running `rpasInstall`.

Example B–1 is the structure of the `globaldomainconfig.xml` file:

- **Path**

  The location of the root of the domain. For the RDF configuration, RDF is the root to the Master domain.

- **Partitiondim**

  The partition dimension.

For RDF pgrp (Group) is the dimension in which the local domains will be partitioned. There can only be one partition dimension.

- **Subpath**:

  The path and name of the local (sub-domain) that contains a specific partition position.

- **ldom+#**

  The default name given by RPAS to local domains. For the RDF configuration, postinstall scripts are pre-configured to install and load data to the domains named **ldom0ldom1**, and **ldom2**.

- **Subposition**

  The position from the partition dimension that will be located in the local domain.

The RDF configuration will create three local domains. For example, **ldom0** will include all product positions at or below **pgrp 1100**.

Example B–1 XML File Structure

```
<?xml version=1.0 encoding=UTF-8 standalone=yes ?>
<rpas>
    <globaldomain>
```

```
        <path>/Domains/RDF</path>
        <partitiondim>pgrp</partitiondim>
        <subdomain>
            <subpath>/Domains/RDF/ldom0</subpath>
            <subpositions>1100</subpositions>
        </subdomain>
        <subdomain>
            <subpath>/Domains/RDF/ldom1</subpath>
            <subpositions>1300</subpositions>
        </subdomain>
        <subdomain>
            <subpath>/Domains/RDF/ldom2</subpath>
            <subpositions>2500</subpositions>
        </subdomain>
    </globaldomain>
</rpas>
```

Note: If you use the Example B–1, "XML File Structure" to install the RDF configuration, only the Path and Subpath to the domains may be changed; but the local domains (**ldom0, ldom1, ldom2**), partition dimension (**pgrp**), and subpositions (**1100, 1300 and 2500**) must be the same as previously listed.

C

Run rpasInstall to Install RDF Domains

The `rpasInstall` utility is used to install domains that support RDF. For more information on using rpasInstall, refer to either the Classic Client or Fusion Client version of the *Oracle Retail Predictive Application Server Administration Guide.*

During installation, RDF requires the following functions to be registered:

- AppFunctions
- LostSaleFunctions
- RdfFunctions

Examples

AppFunctions and RdfFunction are required functions needed for the installation of RDF. If the Preprocessing solution has been implemented, the LostSaleFunctions is required.

RDF configurations that include the Grade solution require ClusterEngine to be registered as well.

For information on using `rpasInstall`, refer to either the Classic Client or Fusion Client version of the *Oracle Retail Predictive Application Server Administration Guide*.

Example C–1 Installing a Global Domain environment by using a global domain configuration and the -p option to specify the partition dimension

```
rpasInstall -fullinstall -dh /Domain_Home -cn Global -ch /configurations -in /Data
-log /Log/InstallLog.txt -verbose -rf AppFunctions -rf RdfFunctions -p pgrp
```

Example C–2 Installing a Global Domain environment by using a global domain configuration and the -configdir option to specify the path to the globaldomainconfig.xml

```
rpasInstall -fullinstall -cn Global -ch /Configurations -in /Data -log
/Log/InstallLog.txt -verbose -rf AppFunctions -rf RdfFunctions -configdir
/ConfigDir
```

D

Appendix: Installation Order

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

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

Enterprise Installation Order

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

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