

**Oracle® Retail Demand Forecasting**

Installation Guide

Release 13.2.2

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Oracle Retail Demand Forecasting Installation Guide, Release 13.2.2

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Oracle Retail Demand Forecasting Installation Guide, Release 13.2.2

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Your feedback is important, and helps us to best meet your needs as a user of our products. For example:

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

If you find any errors or have any other suggestions for improvement, then please tell us your name, the name of the company who has licensed our products, the title and part number of the documentation and the chapter, section, and page number (if available).

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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.

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**Note:** Supplemental installation guides are referenced in this document. The *Oracle Retail Predictive Application Server Installation Guide*, *Oracle RPAS Administration Guide for the Classic Client*, 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.

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## 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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## **Related Documents**

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

- *Oracle Retail Demand Forecasting Release Notes*
- Oracle Retail Predictive Application Server documentation

## **Customer Support**

To contact Oracle Customer Support, access My Oracle Support at the following URL:

<https://support.oracle.com>

When contacting Customer Support, please provide the following:

- Product version and program/module name
- Functional and technical description of the problem (include business impact)
- Detailed step-by-step instructions to re-create
- Exact error message received
- Screen shots of each step you take

## **Review Patch Documentation**

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

# Oracle Retail Documentation on the Oracle Technology Network

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

[http://www.oracle.com/technology/documentation/oracle\\_retail.html](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:

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



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# 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.

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**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.

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Read through this document completely before performing the installation steps.

## 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	<ul style="list-style-type: none"> <li>▪ Oracle Solaris 10 (SPARC): GCC 4.2.3 (32 bit)</li> <li>▪ AIX 5.3 (POWER) - TL12 SP1: GCC 4.1.1 (32 bit)</li> <li>▪ AIX 6.1 (POWER) -TL4: GCC 4.3.3 (32 bit)</li> <li>▪ HP-UX 11.31 (Itanium): ACC 6.20 (64 bit)</li> <li>▪ Oracle Linux 5, Update 3 (5.3): GCC 4.1.2 (64 bit)</li> <li>▪ Red Hat Enterprise Linux 5.3: GCC 4.1.2 (64 bit)</li> </ul> <p><b>Notes:</b></p> <p>After the 13.2.2 release, the following components will no longer be supported:</p> <ul style="list-style-type: none"> <li>▪ 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.</li> <li>▪ 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.</li> </ul>

**Table 1–1 (Cont.) Hardware and Software Requirements**

Requirement	Details
Supported OS, Client	<ul style="list-style-type: none"> <li>■ Microsoft Windows XP</li> <li>■ Microsoft Windows Vista</li> </ul>
Required 3rd Party Software	<ul style="list-style-type: none"> <li>■ Oracle Java Runtime Environment (JRE) 1.6</li> <li>■ Oracle Java Runtime Environment (JRE) 1.5</li> <li>- For AIX, the JRE version must be the 32-bit version of Java 1.5 SR1 or higher.</li> </ul> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>■ After the 13.2.2 release, JRE 1.5 will no longer be supported. Only JRE 1.6 will remain supported.</li> <li>■ When installing Java, avoid enabling AutoUpdate because it may update the Java version without prompting.</li> </ul>

## Supported Oracle Retail Products

The following Oracle Retail products are supported:

Requirement	Version
Oracle Retail Analytic Parameter Calculator for Replenishment Optimization (APC RO)	13.2
Oracle Retail Merchandising System (RMS)	13.2
Oracle Promotion Intelligence and Promotion Planning and Optimization (PI-PPO)	13.2.2
Oracle Retail Replenishment Optimization (RO)	13.2.2
Oracle Retail Regular Price Optimization (RPO)	13.2.2

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

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**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.

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## 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>.

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

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### Environment Variable Setup Script

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

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

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

OR

Include the full path after the period ".":

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

---



---

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

---



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---



---

**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.

---



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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, you need to set the 64-bit Configuration Tools environment variable for Java as shown below:

```
export RIDE_OPTIONS=-d64
```

## Downloading and Extracting the RDF Media Pack

The following procedure provides information about extracting the RDF Media Pack and its contents:

1. Create a directory to store the RDF 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 file:

- `RDF.zip` - This file contains the RDF 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 RDF Release Notes*.
- Installation Guide - This folder contains the *Oracle RDF Installation Guide*.

## Extracting the RDF Installation Package

Complete these steps to extract the installation package:

1. Create a directory to store the RDF 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 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

Complete these steps to install RDF:

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 executed with the preceding period and forward slash (./).

---

---

If this process is being run on an X-Windows emulator (such as Exceed), a graphical user interface 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 will be identical but displayed differently. In the GUI, a checkbox may appear to signal whether you want a component installed. In text mode, a response of yes or no may be required.

---

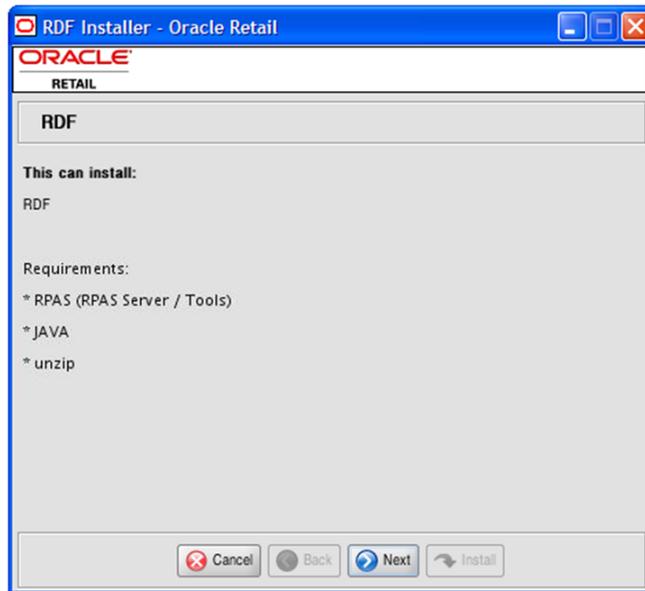
---

**Note:** In text mode, the default value will appear 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**.

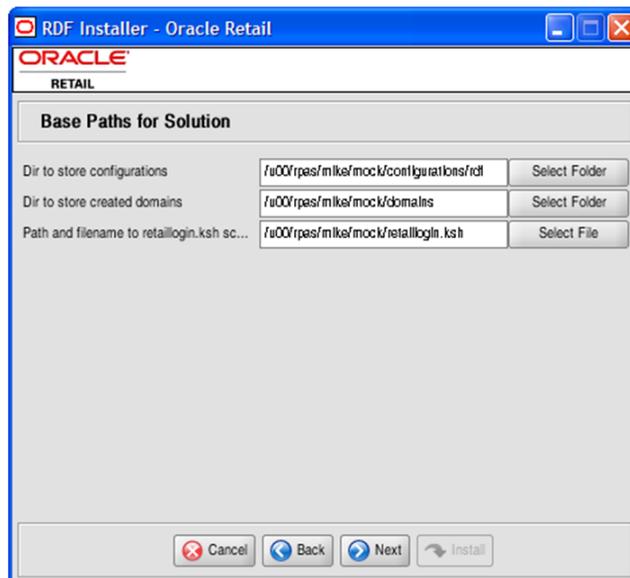
---

---

2. The RDF Installer screen 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 Screen**

3. The Base Paths for Solution screen opens.

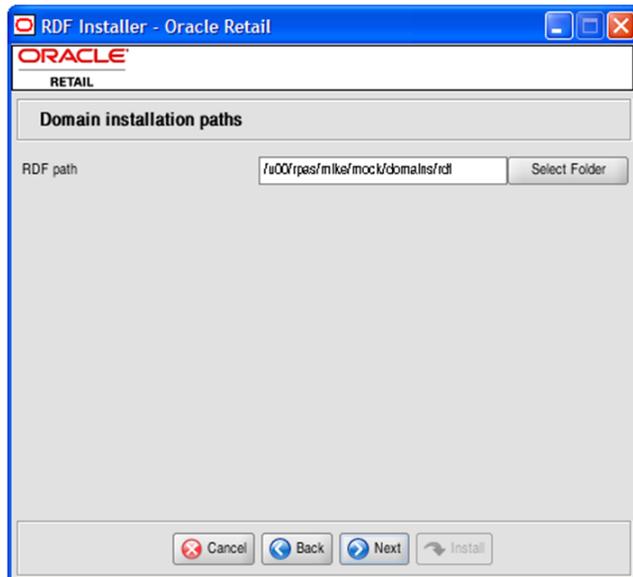
**Figure 1–2 Base Paths for Solution Screen**

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.

- The Domain Installation Path screen opens.

**Figure 1–3 Domain Installation Paths Screen**



Enter the path where the RDF domain will be created, and click **Next**.

- The Install Tasks screen opens.

**Figure 1–4 Install Tasks Screen**

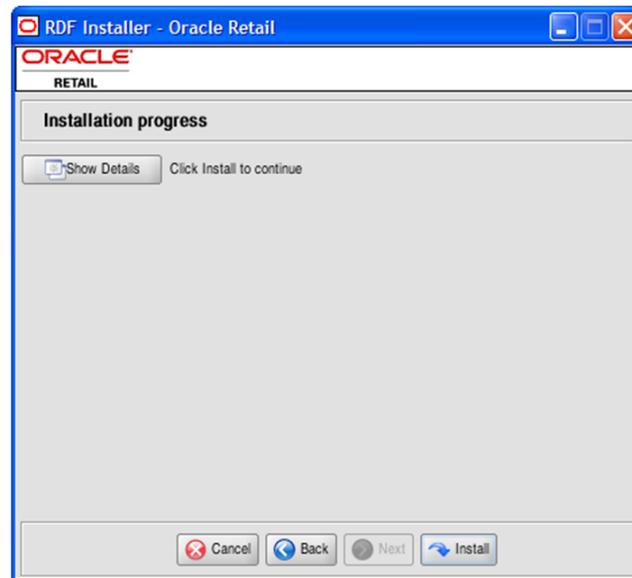


If you want to....	Then....
create the RDF domain	select <b>Create RDF Domain</b> and click <b>Next</b> .

If you want to....	Then....
install all required components to support the RDF domain, but not create the actual RDF domain	clear the <b>Create RDF Domain</b> checkbox and click <b>Next</b> .

- The Installation Progress screen opens.

**Figure 1–5** *Installation Progress Screen*



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

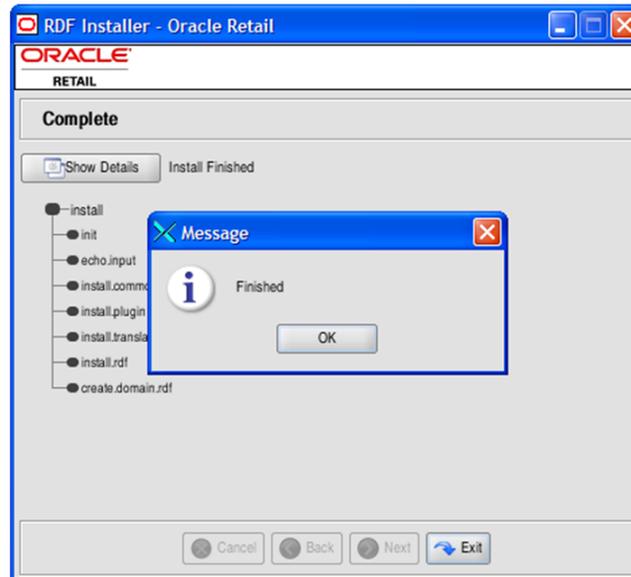
You can view the detailed mode at any time during or after the installation.

---

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

---

- When the installation process is complete, the Complete screen opens with Message dialog box. Click **OK** to close the dialog box.

**Figure 1–6 Complete Screen**

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

If you 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.

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

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

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## Manually Installing RDF

This section provides the manual processes for building the RDF mock installation or other RDF configurations. The following components must be installed before manually installing RDF:

- RPAS Client
- RPAS Server - Also referred to as \$RPAS\_HOME
- RPAS Configuration Tools - Also referred to as \$RIDE\_HOME
- Java - Also referred to as \$JAVA\_HOME

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**Note:** See the *Oracle RPAS Installation Guide* for instructions on the above components.

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### Manually Installing RDF

Complete the following steps to manually install RDF.

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**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 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 Media Pack to the [RDF Installation] directory on the target server.
  - c. Extract the package to the [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 directory.

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 Installation] directory.
  - b. Navigate to [RDF Installation]/CDROM/rdp/rdp/plugin/ directory and copy the resources directory to the Configuration Tools installation (\$RIDE\_HOME).
3. Run `rpasInstall` to build RDF.

The following command may be used to install the RDF configuration using the `-p` option to specify the partition dimension (`pgrp`) configured in this global domain environment:

```
rpasInstall -fullinstall -dh <path to the domain> -cn RDF -ch <path to the configuration> -in <path to the data files> -log <path to the location and name of the installation log> -rf AppFunctions -rf RdfFunctions -rf LostSaleFunctions -rf ClusterEngine -p pgrp
```

---

**Note:** The RDF installation requires the AppFunctions and RdfFunction functions. This configuration also includes the Grade solution, which requires both AppFunctions and ClusterEngine.

See the *Oracle RPAS Administration Guide for the Classic Client* for information on `rpasInstall`.

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. Refer to the "Building and Upgrading Domains" chapter in the *Oracle RPAS Administration Guide for the Classic Client*.

---

**Example A-1**

```
rpasInstall -fullinstall -dh C:\RDF\Domains -cn RDF -ch C:\RDF\configurations -in  
C:\RDF\input -log C:\RDF\configurations\install.txt -rf AppFunctions -rf  
RdfFunctions -rf LostSaleFunctions -rf ClusterEngine -p pgrp
```

4. Load the sales measures.
  - a. After the domain installation has completed, the sales data must be loaded into the domain using the `loadmeasure` utility.
  - b. Open a command prompt from the master domain (/RDF) and type the following commands:

```
loadmeasure -d . -measure dpos  
loadmeasure -d . -measure rsal  
loadmeasure -d . -measure csal  
loadmeasure -d . -measure psal
```
5. Use `mace` to calculate the Weekly Sales measures.
  - a. Open a command prompt from the local domain (/RDF/lDom0) and type the following command:

```
mace -d . -run -group common_batch
```
  - b. Repeat this step for each of the remaining local domains (/RDF/lDom1 and /RDF/lDom2).



---

---

## 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 RPAS Installation Guide* for RPAS installation instructions.

### Patching an RDF Domain

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**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 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 Media Pack to the [RDF Installation] directory on the target server.
  - c. Extract the package to the [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/rdp/rdp/plugin/ and copy the resources directory to the Configuration Tools installation (\$RIDE\_HOME).
3. Using the Configuration Tools on a Windows machine, auto-generate the RDF, Curve, Promote, or Grade solutions that are implemented.

It is necessary to open the configuration in the patched version of the RPAS Configuration Tools and autogenerate 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.

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

See the *Oracle RPAS Administration Guide for the Classic Client* for information on the `upgradeDomain` utility.

6. Run `rpasInstall` to patch the RDF domain.

The following command may be used to patch the RDF configuration using the `-p` option to specify the partition dimension (`pgrp`) configured in this global domain environment:

```
rpasInstall -patchinstall -dh <path to the domain> -cn RDF
-ch <path to the configuration> -in <path to the data files>
-log <path to the location and name of the installation log>
-rf AppFunctions -rf RdfFunctions -rf LostSaleFunctions -rf
ClusterEngine -p pgrp
```

---

**Note:** The RDF installation requires the `AppFunctions` and `RdfFunction` functions. This configuration also includes the Grade solution, which requires the `AppFunctions` and `ClusterEngine` functions.

See the *Oracle Administration Guide for the Classic Client* for information on `rpasInstall`.

---

### Example B-1

```
rpasInstall -patchinstall -dh C:\RDF\Domains -cn RDF -ch C:\RDF\configurations -in
C:\RDF\input -log C:\RDF\configurations\install.txt -rf AppFunctions -rf
RdfFunctions -rf LostSaleFunctions -rf ClusterEngine -p pgrp
```

---

---

## Creating a Global Domain Configuration Directory (Optional)

### 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`. The following example 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, post-install 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 C-1**

```
<?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 above example 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 above.

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## Run rpaInstall to Install RDF Domains

The `rpaInstall` utility is used to install domains that support RDF. See the *Oracle RPAS Administration Guide for the Classic Client* for more information on using `rpaInstall`.

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

- AppFunctions
- RdfFunctions

### Examples

**Example D-1 Installing a Simple domain environment by using a simple domain configuration**

```
rpaInstall -fullinstall -dh /Domain_Home -cn Simple -ch /configurations -in /Data  
-log /Log/InstallLog.txt -verbose -rf AppFunctions -rf RdfFunctions
```

**Example D-2 Installing a Global Domain environment by using a global domain configuration and the -p option to specify the partition dimension**

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

**Example D-3 Installing a Global Domain environment by using a global domain configuration and the -configdir option to specify the path to the globaldomainconfig.xml**

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

---

---

**Note:** AppFunctions and RdfFunction are required functions needed for the installation of RDF. RDF configurations that include the Grade solution require ClusterEngine to be registered as well.

See the *Oracle RPAS Administration Guide for the Classic Client* for information on using `rpaInstall`.

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## Upgrade Process

When upgrading RDF, follow the upgrade option that corresponds best to your system's requirements.

- Use [Typical RDF Upgrade](#) to upgrade RDF from 13.1.2 to the current release.
- Use [Upgrade 1 Process](#) to upgrade RDF from versions prior to 13.0.4.18
- Use [Upgrade 2 Process](#) to upgrade RDF and you want to retain your existing displayed class and subclass information

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**Note:** If your version of RDF is 13.1.2 or later, your existing class and subclass information is retained.

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### Typical RDF Upgrade

This section describes how to upgrade RDF from 13.1.2 to the current release.

#### Extraction

The steps in this section only apply if the user has 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 simply *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
```

The following files and directories may be extracted to the current directory:

- Configurations.zip
  - PlugIn.zip
  - Data.zip
  - README.html
  - DOCS/
3. Unzip the files above by running the following commands:

```
$ unzip Configurations.zip
$ unzip PlugIn.zip
$ unzip Data.zip
```

The following directories are extracted to the current directory:

- configurations/
  - resources/
  - data/
4. Leave the terminal session window open for the RDF upgrade process described in the [RDF Environment and Domain Upgrade Process](#) section.

## 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.

1. From the Windows Start menu, select **MKS Toolkit**, and then select **Kornshell**. The MKS Kornshell application opens.
2. In MKS Kornshell, enter the following commands:

```
$ mkdir packagedir
$ cp RDF.zip packagedir
$ cd packagedir
$ export PACKAGEDIR=`pwd`
$ unzip RDF.zip
```

The following files and directories may be extracted to the current directory:

- Configurations.zip
  - PlugIn.zip
  - Data.zip
  - README.html
  - DOCS/
3. Unzip the PlugIn.zip file by running the following commands:

```
$ unzip PlugIn.zip
```

The following directory is extracted to the current directory:

- resources/
4. Leave the MKS KornShell window open for the RDF upgrade process discussed in the [RDF Environment and Domain Upgrade Process](#) section below.

## RDF Upgrade Prerequisites

In order to upgrade RDF, 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 section, "[Hardware and Software Requirements](#)".
- Verify that the environment variables are correctly set for both the server and PC; if they are not, follow these instructions to set them:
  - Change directories to the original RPAS installation directory (such as the one created by the most recent installer), and execute retaillogin.ksh to set all environment variables. For example:

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

**Notes:**

- 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 outlined above.

## RDF Environment and Domain Upgrade Process

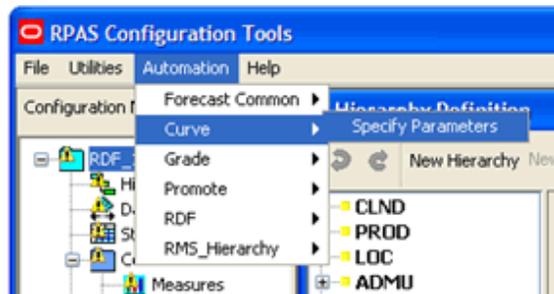
The following process outlines how use the RPAS Configuration Tools to upgrade to the new version of RDF.

### For the PC

1. In MKS KornShell, copy the RDF plug-ins to the RPAS Configuration Tools.
 

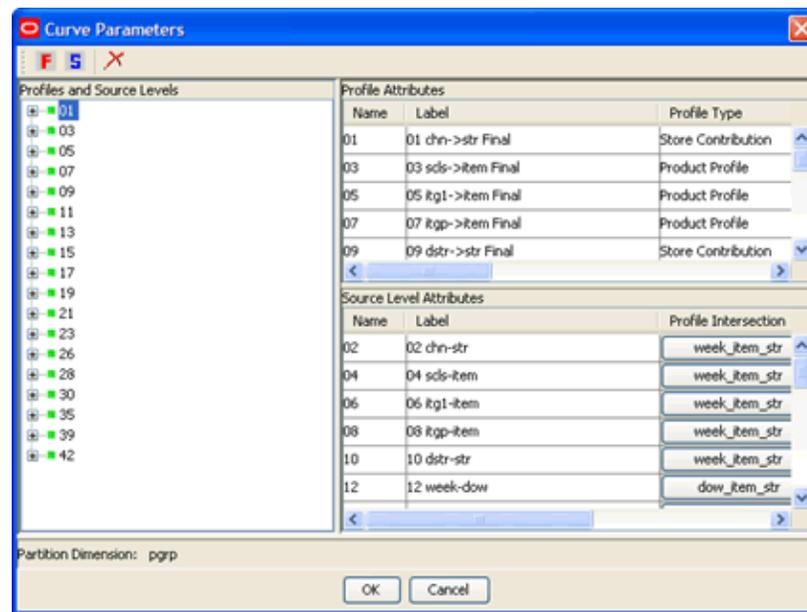
```
$ cp -R $PACKAGEDIR/resources $RIDE_HOME/
```
2. Open RPAS Configuration Tools.
3. In RPAS Configuration Tools, load the RDF configuration:
  - a. From the Configuration Tools File menu, select **Open**.
  - b. From the Open window, locate the configuration file and click **Open**.
4. Automate Curve, RDF and Promote (if applicable) by performing the following:
  - a. For Curve: from the Automation menu, select **Curve**, then **Specify Parameters**.

**Figure E-1 Curve Automation in RPAS Configuration Tools**



The Forecasting Parameters window opens. Click **OK**.

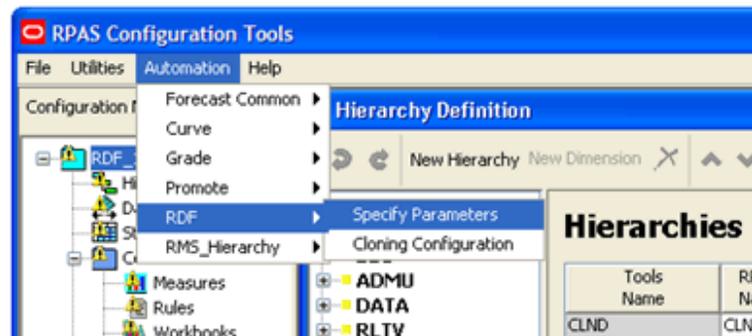
Figure E-2 Curve Forecasting Parameters



- b. For RDF, set:
  - Specify Parameters
  - Cloning Configuration

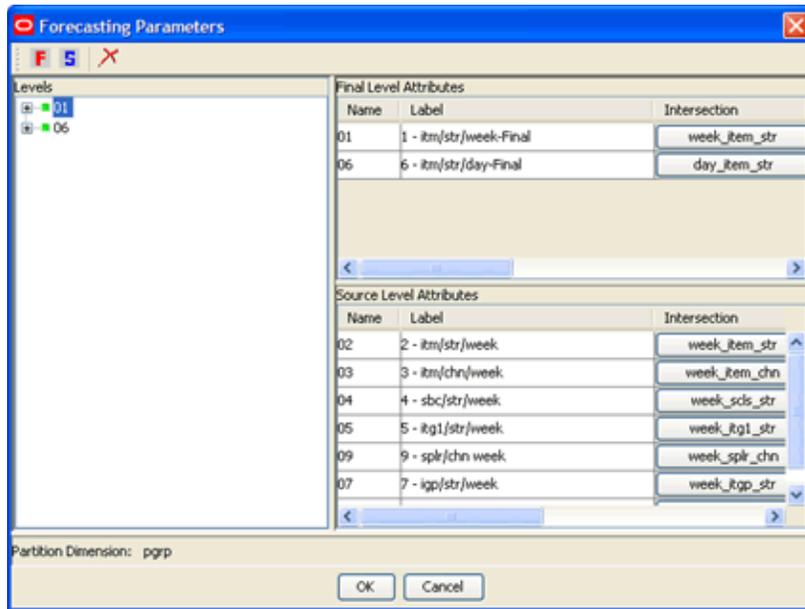
From the Automation menu, select **RDF**, and then **Specify Parameters**.

Figure E-3 RDF Automation in RPAS Configuration Tools



The Forecasting Parameters window opens. Click OK.

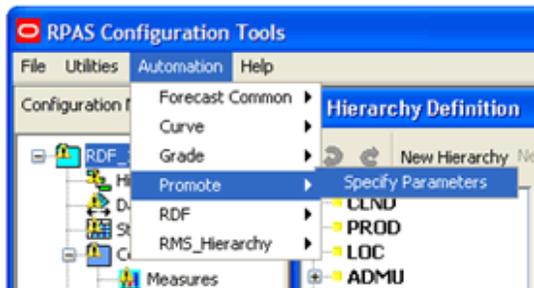
**Figure E–4 RDF Forecasting Parameters**



From the Automation menu, select **RDF**, and then **Cloning Configuration**.  
The Cloning Configuration window opens. Click **OK**.

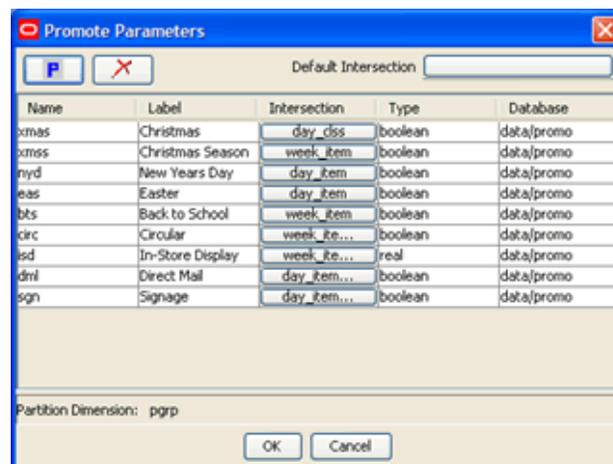
- c. For Promote: from the Automation menu, select **Promote**, then **Specify Parameters**.

**Figure E–5 Promote Automation in RPAS Configuration Tools**



The Forecasting Parameters window opens. Click **OK**.

Figure E-6 Promote Forecasting Parameters



5. In the RPAS Configuration Tools File menu, click **Save** to save the configuration.
6. 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. Copy the RDF plug-ins to the RPAS Configuration Tools.

```
$ cp -R $PACKAGEDIR/resources $RIDE_HOME/
```

2. Unzip the updated configuration and note where it is extracted. You saved this configuration in Step 6 of the section, "For the PC".
3. To upgrade the prior version of your RDF domain to a domain, refer to the *Oracle RPAS Administration Guide for the Classic Client*. The section, *After Building the Domain* in the *Building and Upgrading Domains* chapter describes the steps for upgrading a simple or global domain environment.

---

**Note:** For the upgrade, take note of the following steps:

- Step 1 was already completed in the [For the PC](#) section.
  - Step 2 is required when changes have been made to the configuration and are ready to be propagated to the domains.
- 

The following sections are intended for clients who are upgrading from:

- a version prior to 13.0.4.18, to any version after 13.0.4.18 ([Upgrade 1 Process](#))
- any version to 13.0.4.18 or later ([Upgrade 2 Process](#))

With integration between RMS and RDF, it is crucial to keep data at class or subclass levels distinct. This upgrade process makes explicit the mapping of items at the class and subclass level between RMS and RDF.

## Upgrade 1 Process

Use this process when:

- Upgrading from RDF versions prior to 13.0.4.18
- Using standard integration between RMS and RDF
- Storing data at class or subclass levels

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**Note:** Users upgrading from a version prior to 13.0.4.18 must apply this process. In future, if you are already on 13.0.4.18 or later, this process need not be followed again.

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## Upgrade 1 Execution Steps

Follow the steps below to complete the Upgrade 1 process.

1. Point environment variable `RPAS_HOME` to the new `RPAS_HOME`.
2. Run the script `$RPAS_HOME/rfx/src/rmse_rpas_merchhier.ksh` to generate the `rmse_rpas_merchhier.dat` file. This file generates the new class and subclass position names.
3. Run `repos.ksh` with the `-a n` flag to produce the position rename file and run `renamePositions` without actually applying the changes.
4. Examine the log file `PRODrename.log` for errors.
5. When you are ready, run the `repos.ksh` script without the `-a y` flag to apply the changes.

## Upgrade 2 Process

Use this process when:

- Upgrading to 13.0.4.18 or later (from any version) and
- You want to retain your existing displayed class and subclass information

## Upgrade 2 Components

The Environment Variables table below shows the environment variables needed for the Upgrade 2 Process.

**Table E-1 Environment Variables**

Environment Variables	Description
UPGRADE_HOME	This variable should point to the path of Upgrade scripts where configuration files such as: <ul style="list-style-type: none"> <li>■ <code>environment.ksh</code></li> <li>■ <code>updateschemafiles.ksh</code></li> <li>■ <code>updatetoolsconfiguration.ksh</code></li> </ul> are present.
RDF_DOMAIN_PATH	The Path of RDF Domain which you are going to patch. The dimension field length of this RDF Domain is taken and applied to the Configuration and Schema files.

**Table E-1 (Cont.) Environment Variables**

Environment Variables	Description
RDF_SCHEMA_DIR	The RETL RDF Schema files directory. It must be the latest release directory, which you are using for patching. It points to the Schema files location in the release, which you are using for patching the RDF domain.
TOOLS_CONFIG_DIR	The Configuration Tools XML files directory. It points to the directory where the hierarchy.xml file is present. It must be the latest release directory which you are using for patching.
UPGRADE_BACKUP_DIR	A backup of Schema and hierarchy.xml files is kept in this directory.

Table E-2 shows the scripts needed for the Upgrade 2 Process.

**Table E-2 Script**

Script	Description
updateschemafiles.ksh	Updates the dimension field length of schema files to the length as available in the domain.
updatetoolsconfiguration.ksh	Updates the dimension field length of configuration files to the length as available in the domain.

## Upgrade 2 Execution Steps

Follow the steps below to complete the Upgrade 2 process.

1. Export the environment variables listed in [Table E-1, "Environment Variables"](#).
2. Change the directory to UpgradeScripts directory:  

```
$ cd UpgradeScripts
```
3. Run the **updatetoolsconfiguration.ksh** script to update the **hierarchy.xml** file.  

```
$ ./updatetoolsconfiguration.ksh
```
4. Run the **updateschemafiles.ksh** script to update the RETL RDF Schema files  

```
$ ./updateschemafiles.ksh
```



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## 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.

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

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### 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)

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

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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)

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**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.

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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)

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**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.

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- 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)