

# **Oracle® Retail Demand Forecasting**

Installation Guide

Release 13.2.1

October 2010

Copyright © 2010, Oracle and/or its affiliates. All rights reserved.

Primary Author: Melissa Artley

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this software or related documentation is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, the following notice is applicable:

U.S. GOVERNMENT RIGHTS Programs, software, databases, and related documentation and technical data delivered to U.S. Government customers are "commercial computer software" or "commercial technical data" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, duplication, disclosure, modification, and adaptation shall be subject to the restrictions and license terms set forth in the applicable Government contract, and, to the extent applicable by the terms of the Government contract, the additional rights set forth in FAR 52.227-19, Commercial Computer Software License (December 2007). Oracle USA, Inc., 500 Oracle Parkway, Redwood City, CA 94065.

This software is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications which may create a risk of personal injury. If you use this software in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure the safe use of this software. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software in dangerous applications.

Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

This software and documentation may provide access to or information on content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services.

**Licensing Note:** This media pack includes a Restricted Use license for Oracle Retail Predictive Application Server (RPAS) - Enterprise Engine to support Oracle® Retail Demand Forecasting only.

## Value-Added Reseller (VAR) Language

### Oracle Retail VAR Applications

The following restrictions and provisions only apply to the programs referred to in this section and licensed to you. You acknowledge that the programs may contain third party software (VAR applications) licensed to Oracle. Depending upon your product and its version number, the VAR applications may include:

- (i) the software component known as **ACUMATE** developed and licensed by Lucent Technologies Inc. of Murray Hill, New Jersey, to Oracle and imbedded in the Oracle Retail Predictive Application Server - Enterprise Engine, Oracle Retail Category Management, Oracle Retail Item Planning, Oracle Retail Merchandise Financial Planning, Oracle Retail Advanced Inventory Planning, Oracle Retail Demand Forecasting, Oracle Retail Regular Price Optimization, Oracle Retail Size Profile Optimization, Oracle Retail Replenishment Optimization applications.
- (ii) the **MicroStrategy** Components developed and licensed by MicroStrategy Services Corporation (MicroStrategy) of McLean, Virginia to Oracle and imbedded in the MicroStrategy for Oracle Retail Data Warehouse and MicroStrategy for Oracle Retail Planning & Optimization applications.
- (iii) the **SeeBeyond** component developed and licensed by Sun Microsystems, Inc. (Sun) of Santa Clara, California, to Oracle and imbedded in the Oracle Retail Integration Bus application.
- (iv) the **Wavelink** component developed and licensed by Wavelink Corporation (Wavelink) of Kirkland, Washington, to Oracle and imbedded in Oracle Retail Mobile Store Inventory Management.
- (v) the software component known as **Crystal Enterprise Professional and/or Crystal Reports Professional** licensed by SAP and imbedded in Oracle Retail Store Inventory Management.
- (vi) the software component known as **Access Via™** licensed by Access Via of Seattle, Washington, and imbedded in Oracle Retail Signs and Oracle Retail Labels and Tags.
- (vii) the software component known as **Adobe Flex™** licensed by Adobe Systems Incorporated of San Jose, California, and imbedded in Oracle Retail Promotion Planning & Optimization application.
- (viii) the software component known as **Style Report™** developed and licensed by InetSoft Technology Corp. of Piscataway, New Jersey, to Oracle and imbedded in the Oracle Retail Value Chain Collaboration application.
- (ix) the software component known as **DataBeacon™** developed and licensed by Cognos Incorporated of Ottawa, Ontario, Canada, to Oracle and imbedded in the Oracle Retail Value Chain Collaboration application.

You acknowledge and confirm that Oracle grants you use of only the object code of the VAR Applications. Oracle will not deliver source code to the VAR Applications to you. Notwithstanding any other term or condition of the agreement and this ordering document, you shall not cause or permit alteration of any VAR Applications. For purposes of this section, "alteration" refers to all alterations, translations, upgrades, enhancements, customizations or modifications of all or any portion of the VAR Applications including all reconfigurations, reassembly or reverse assembly, re-engineering or reverse engineering and recompilations or reverse compilations of the VAR Applications or any derivatives of the VAR Applications. You acknowledge that it shall be a breach of the agreement to utilize the relationship, and/or confidential information of the VAR Applications for purposes of competitive discovery.

The VAR Applications contain trade secrets of Oracle and Oracle's licensors and Customer shall not attempt, cause, or permit the alteration, decompilation, reverse engineering, disassembly or other reduction of the VAR Applications to a human perceivable form. Oracle reserves the right to replace, with functional equivalent software, any of the VAR Applications in future releases of the applicable program.



---

---

# Contents

<b>Send Us Your Comments .....</b>	<b>vii</b>
<b>Preface .....</b>	<b>ix</b>
Audience.....	ix
Documentation Accessibility .....	ix
Related Documents .....	x
Customer Support .....	x
Review Patch Documentation .....	x
Oracle Retail Documentation on the Oracle Technology Network .....	xi
Conventions .....	xi
 <b>1 Full Installation</b>	
<b>Hardware and Software Requirements.....</b>	<b>1-1</b>
<b>Supported Oracle Retail Products.....</b>	<b>1-2</b>
<b>Installing RDF on UNIX Environments.....</b>	<b>1-2</b>
Preparation.....	1-3
Environment Variable Setup Script .....	1-3
HP Itanium.....	1-3
Downloading and Extracting the RDF Media Pack .....	1-3
Installation Instructions.....	1-4
 <b>A Manually Installing RDF</b>	
Manually Installing RDF .....	A-1
 <b>B Patching RDF Domains</b>	
Patching an RDF Domain .....	B-1
 <b>C Creating a Global Domain Configuration Directory (Optional)</b>	
Using globaldomainconfig.xml to Partition and Label Domains.....	C-1
 <b>D Run rpasInstall to Install RDF Domain(s)</b>	
Examples .....	D-1

## **E Upgrade Process**

<b>Upgrade 1 Process</b> .....	E-1
Upgrade 1 Execution Steps .....	E-1
<b>Upgrade 2 Process</b> .....	E-2
Upgrade 2 Components .....	E-2
Upgrade 2 Execution Steps .....	E-3

---

---

## Send Us Your Comments

Oracle Retail Demand Forecasting Installation Guide, Release 13.2.1

Oracle welcomes customers' comments and suggestions on the quality and usefulness of this document.

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?
- Does the structure of the information help you with your tasks?
- Do you need different information or graphics? If so, where, and in what format?
- Are the examples correct? Do you need more examples?

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

---

---

**Note:** Before sending us your comments, you might like to check that you have the latest version of the document and if any concerns are already addressed. To do this, access the new Applications Release Online Documentation CD available on My Oracle Support and [www.oracle.com](http://www.oracle.com). It contains the most current Documentation Library plus all documents revised or released recently.

---

---

Send your comments to us using the electronic mail address: [retail-doc\\_us@oracle.com](mailto:retail-doc_us@oracle.com)

Please give your name, address, electronic mail address, and telephone number (optional).

If you need assistance with Oracle software, then please contact your support representative or Oracle Support Services.

If you require training or instruction in using Oracle software, then please contact your Oracle local office and inquire about our Oracle University offerings. A list of Oracle offices is available on our Web site at <http://www.oracle.com>.





---

---

# 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 via the RPAS Configuration Tools. This document does not describe how to create the actual configuration. Refer to the RDF Configuration Guide for information on creating a 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 Guide* must be obtained before beginning the installation process. 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

Our goal is to make Oracle products, services, and supporting documentation accessible to all users, including users that are disabled. To that end, our documentation includes features that make information available to users of assistive technology. This documentation is available in HTML format, and contains markup to facilitate access by the disabled community. Accessibility standards will continue to evolve over time, and Oracle is actively engaged with other market-leading technology vendors to address technical obstacles so that our documentation can be accessible to all of our customers. For more information, visit the Oracle Accessibility Program Web site at <http://www.oracle.com/accessibility/>.

### Accessibility of Code Examples in Documentation

Screen readers may not always correctly read the code examples in this document. The conventions for writing code require that closing braces should appear on an

otherwise empty line; however, some screen readers may not always read a line of text that consists solely of a bracket or brace.

### **Accessibility of Links to External Web Sites in Documentation**

This documentation may contain links to Web sites of other companies or organizations that Oracle does not own or control. Oracle neither evaluates nor makes any representations regarding the accessibility of these Web sites.

### **Access to Oracle Support**

Oracle customers have access to electronic support through My Oracle Support. For information, visit <http://www.oracle.com/support/contact.html> or visit <http://www.oracle.com/accessibility/support.html> if you are hearing impaired.

## **Related Documents**

For more information, see the following documents in the Oracle Retail Demand Forecasting Release 13.2.1 documentation set:

- *Oracle Retail Demand Forecasting Release Notes*
- *Oracle Retail Demand Forecasting Implementation Guide*
- *Oracle Retail Demand Forecasting Configuration Guide*
- *Oracle Retail Demand Forecasting User Guide*
- 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:

Convention	Meaning
<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.
<code>monospace</code>	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.



---

# 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 via 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 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

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

**Table 1–1 Hardware and Software Requirements**

Requirement	Details
Supported RPAS Version	13.2.1
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) - TL5 or greater: 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 Enterprise Linux 5, Update 3 (OEL 5.3): GCC 4.1.2 (64 bit)</li><li>■ Red Hat Enterprise Linux 5.3: GCC 4.1.2 (64 bit)</li></ul>
Supported OS, Client	<ul style="list-style-type: none"><li>■ Microsoft Windows XP</li><li>■ Microsoft Windows Vista</li></ul>

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

Requirement	Details
Required 3rd Party Software	<p>Oracle's Java Runtime Environment (JRE) 1.5</p> <ul style="list-style-type: none"> <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>Oracle's JRE 1.6 is also certified, but it is not necessary to upgrade to JRE 1.6.</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)	13.2.1
Oracle Retail Merchandising System (RMS)	13.1.3
Oracle Retail Regular Price Optimization (RPO)	13.2.1

## 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

---

**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 ".":

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

---

---

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

---

---



---

---

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

---

---

This script 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 RDF Release Notes.
- Installation Guide - This folder contains the RDF Installation Guide.

## Installation Instructions

Complete the following steps to install RDF:

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
```

5. 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.

---

---

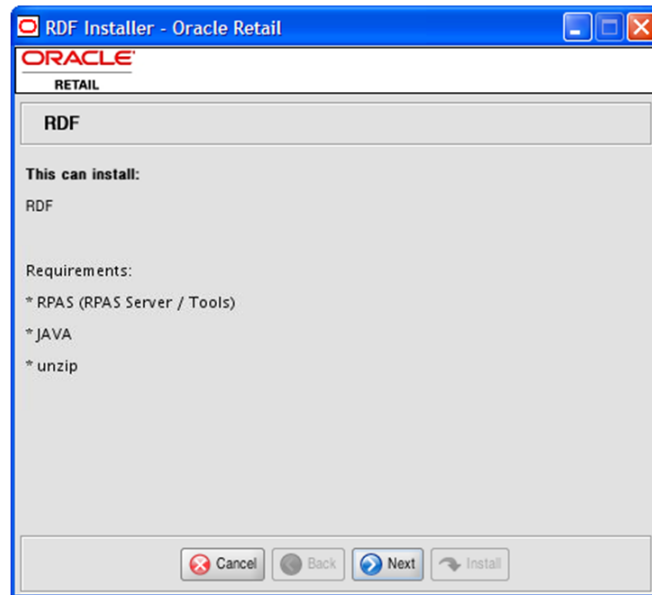
**Note:** In text mode, the default value will appear in square brackets. To use the default value and continue, press **Enter**. If you want to use a different value, enter the new value. When prompted to create a directory, respond with y or yes and press **Enter**.

---

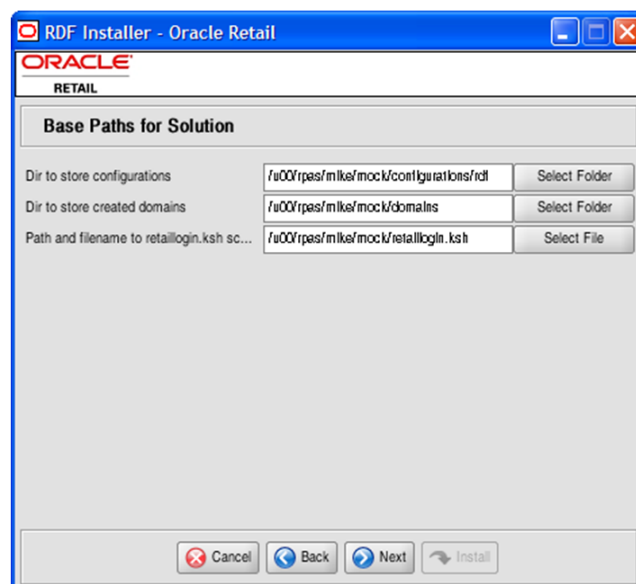
---

6. The RDF Installer screen displays the software required to complete this installation. You should already have installed this software on your system. If you have not installed these items, please perform the necessary installations before continuing. Click **Next** to continue.



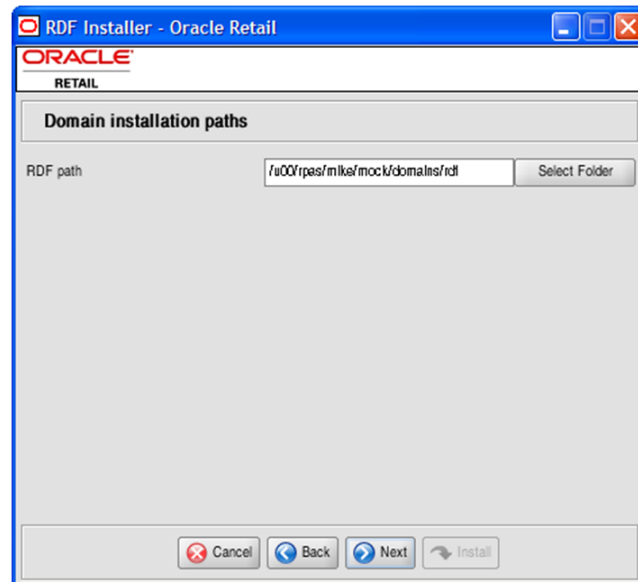
**Figure 1–1 RDF Installer Screen**

7. The Base Paths for Solution screen appears. 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.

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

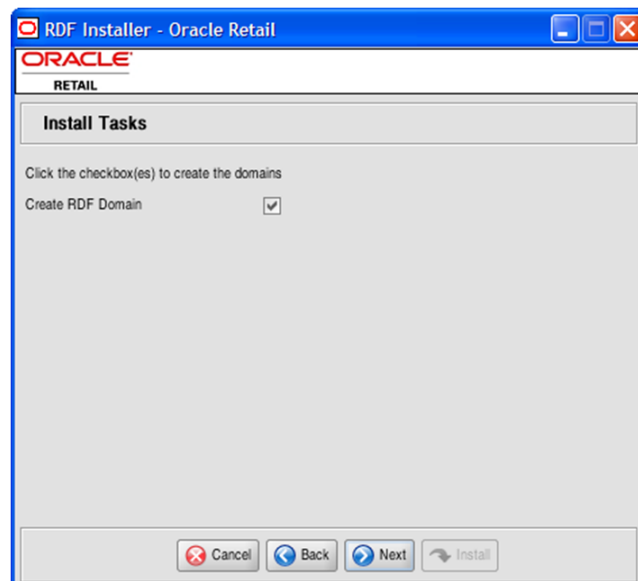
8. The Domain Installation Path screen appears. Enter the path where the RDF domain will be created, and click **Next**.

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



9. The Install Tasks screen appears. Select the **Create RDF Domain** check box to create the RDF domain. Clear the check box to install all the components required to support an RDF domain but not create the actual RDF domain. Click **Next** to continue.

**Figure 1–4 Install Tasks Screen**



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

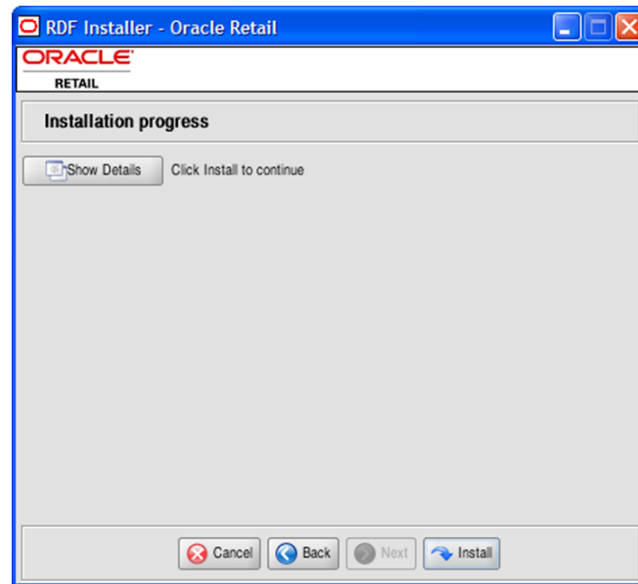
You can view the detailed mode at any time during or after the installation.

---

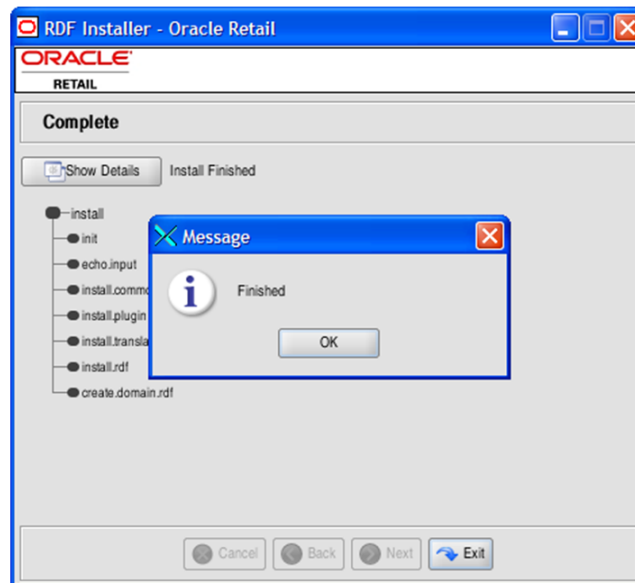
**Note:** If you chose to create the RDF global domain, installation time might take 30 to 60+ minutes depending on server specifications.

---

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



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

**Figure 1–6 Complete Screen**

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

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

---

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

---

## 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

---

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

---

### Manually Installing RDF

Complete the following steps to manually install RDF.

---

**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/rdf/rdf/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 *RPAS Configuration Tools User Guide* 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 "Upgrading and Patching Domains" section in the *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 RPAS Installation Guide for RPAS installation instructions.

### Patching an RDF Domain

---

**Note:** When patching an RDF domain, you need the same -rf arguments of rpaInstall 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 CDRM
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. 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 *RPAS Installation Guide* for information on the upgradeDomain utility.

6. Run rpaInstall 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:

```
rpaInstall -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 *RPAS Configuration Tools User Guide* for information on rpaInstall.

---

#### **Example B-1**

```
rpaInstall -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.

---

---

## Run rpaInstall to Install RDF Domain(s)

The `rpaInstall` utility is used to install domains that support RDF. See the *RPAS Configuration Tools User Guide* 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 *RPAS Configuration Tools User Guide* for information on using `rpaInstall`.

---



---

## Upgrade Process

This section is 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

---

**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.

---

### 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 1-1 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>■ environment.ksh</li> <li>■ updateschemafiles.ksh</li> <li>■ updatetoolsconfiguration.ksh</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
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.

The table below shows the scripts needed for the Upgrade 2 Process.

**Table 1-2 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 1-1, "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
```

