

**Oracle® Retail Demand Forecasting**  
Installation Guide  
Release 13.0

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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 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.

Supplemental installations guides are referenced in this document. The *RPAS Installation Guide* and *RPAS 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 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

## Related Documents

For more information, see the following documents:

- *Oracle Retail Demand Forecasting Release Notes*
- *Oracle Retail Demand Forecasting User Guide*
- *Oracle Retail Demand Forecasting Configuration Guide*
- *Oracle Retail Demand Forecasting Administration Guide*
- Oracle Retail Predictive Application Server documentation

## Customer Support

- <https://metalink.oracle.com>

When contacting Customer Support, please provide:

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

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## Review Patch Documentation

For a base release (".0" release, such as 13.0), Oracle Retail strongly recommends that you read all patch documentation before you begin installation procedures. Patch documentation can contain critical information related to the base release, based on new information and code changes that have been made since the base release.

## Oracle Retail Documentation on the Oracle Technology Network

In addition to being packaged with each product release (on the base or patch level), all Oracle Retail documentation is available on the following Web site:

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

Documentation should be available on this Web site within a month after a product release. Note that documentation is always available with the packaged code on the release date.

## Conventions

**Navigate:** This is a navigate statement. It tells you how to get to the start of the procedure and ends with a screen shot of the starting point and the statement "the Window Name window opens."

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**Note:** This is a note. It is used to call out information that is important, but not necessarily part of the procedure.

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This is a code sample  
It is used to display examples of code

A hyperlink appears like this.



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# Installing Demand Forecasting

## Before You Begin

This document provides instructions on installing Oracle Retail Demand Forecasting.

This document 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.

Supplemental installations guides are referenced in this document. The *RPAS Installation Guide* and *RPAS Configuration Tools User Guide* must be obtained prior to beginning the installation process. Read these documents in their entirety before beginning the installation.

Read through this document completely before performing the installation steps.

## 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\_13 mock install configuration
- Installs RDF plug-ins for the Configuration Tools
- Installs Language Translation files
- Creates a sample RDF\_13 domain

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

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## Preparation

The RDF Media Pack contains the necessary RPAS components required for the solution downloaded from Oracle's E-Delivery Web site (<http://edelivery.oracle.com/>).

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**Note:** Before installing RDF 13, confirm that RPAS 13 and all subsequent patches have been successfully applied.

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### HP Itanium

If you are installing any RPAS 13.0 solution on HP Itanium, you need to set the 64-bit Configuration Tools environment variable for Java as shown below:

```
export RIDE_OPTIONS=-d64
```

### Environment Variable Setup Script

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

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

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

OR

Include the full path after the period ".":

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

---

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

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

---

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

## Installation Instructions

Perform the subsequent procedure to install RDF.

1. Create the RDF installation directory and extract the RDF Media Pack.
  - a. Create an RDF installation directory from which the RDF installation routine will be run. This directory will be referred to as [RDF Installation].
  - b. After downloading the package from Oracle E-Delivery, transfers the archive to the [RDF Installation] directory on the target server via FTP in binary mode.
  - c. Extract the package to the [RDF Installation] directory.

```
cd [RDF Installation]
unzip RDF-13.0.zip
```
2. 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.

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**Note:** In text mode, the default value will appear in square brackets. To use the default value and continue, press the **Enter** key. 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 the **Enter** key.

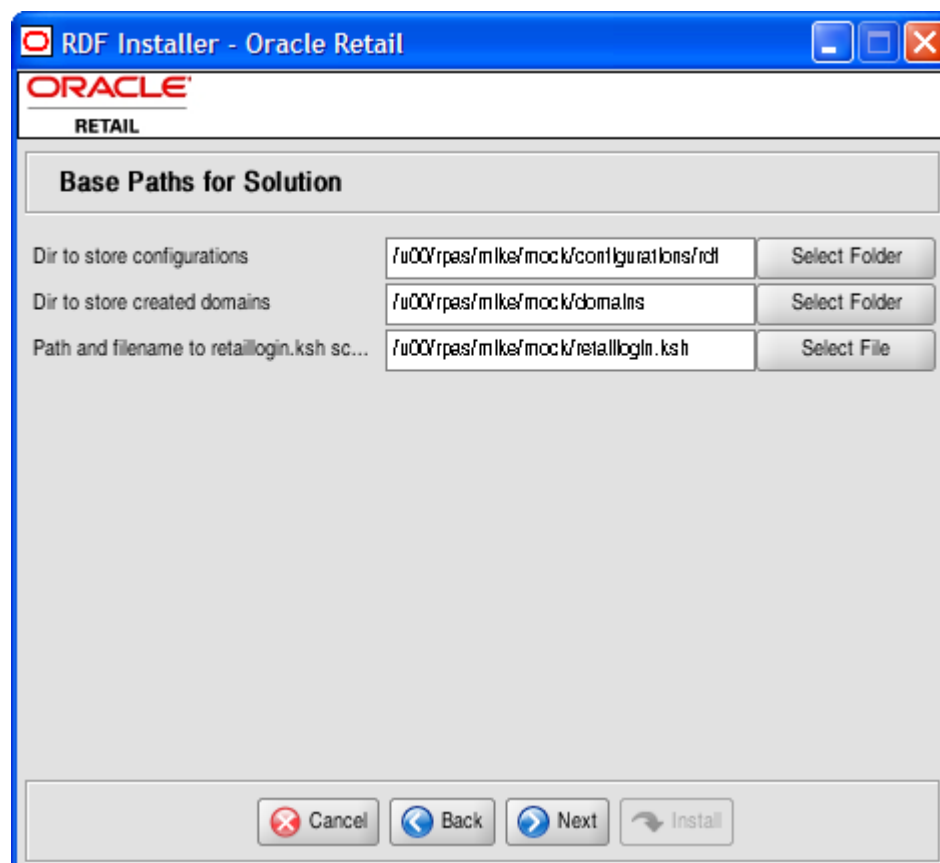
---

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.



RDF Installer Screen

3. Click **Next** to continue. The Base Paths for Solution screen appears.

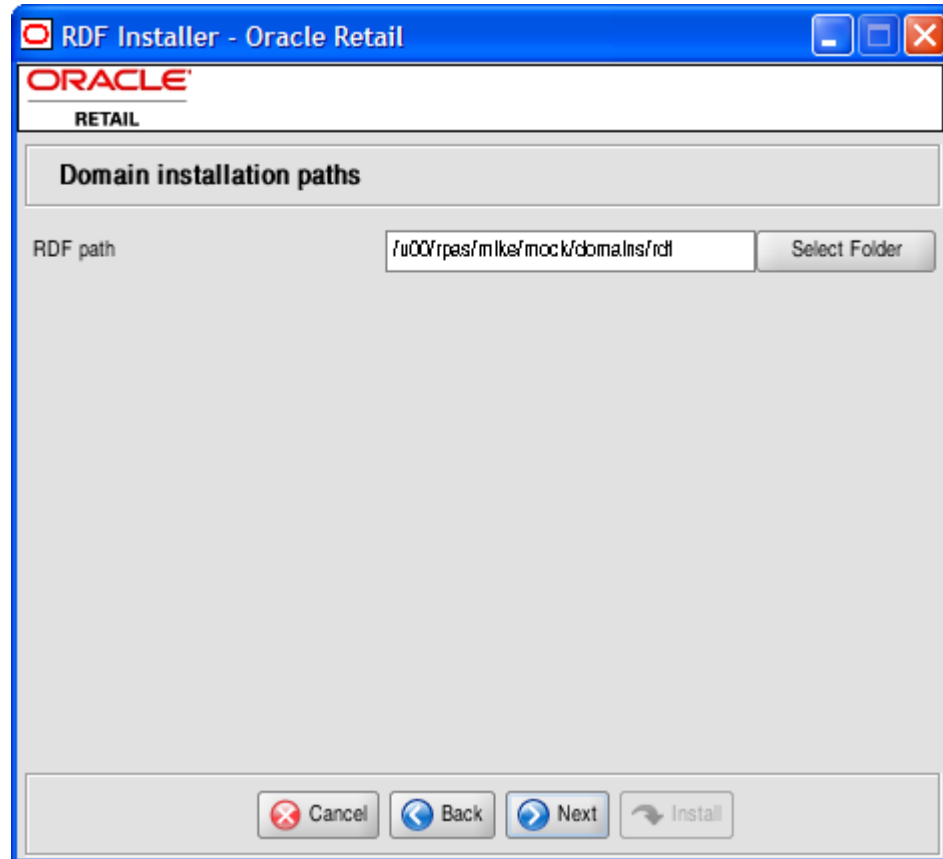


**Base Paths for Solution Screen**

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

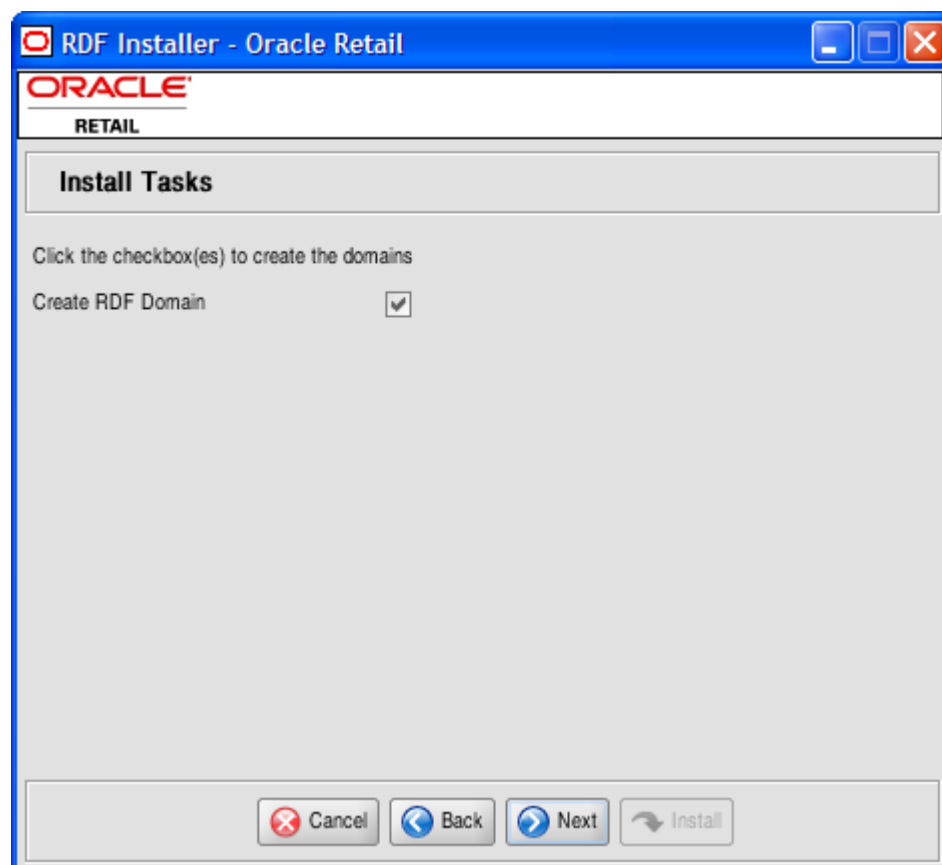
- Dir to store configurations – Enter the target directory to store the configurations.
- Dir to store created domains – Enter the target directory used to store created domains.
- Path and file name to the retaillogin.ksh script – Enter the path and file name where the retaillogin.ksh script was created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

The Domain Installation Path screen appears.



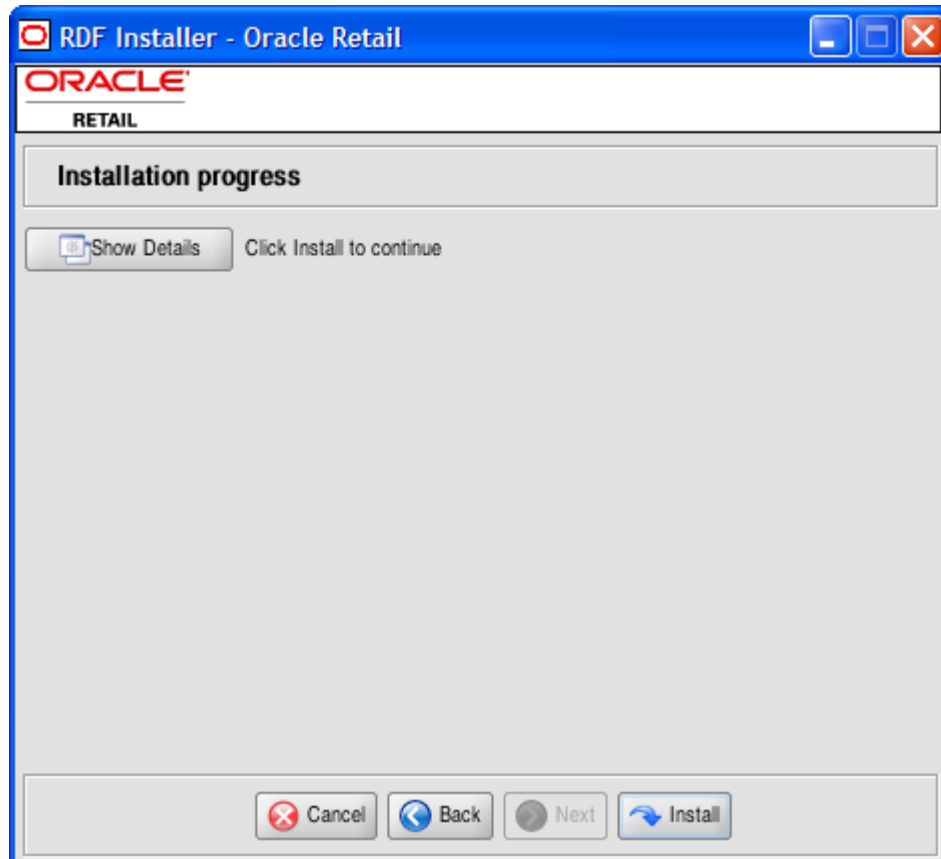
Domain Installation Paths Screen

5. Enter the path where the RDF domain will be created, and click **Next**.  
The Install Tasks screen appears.



**Install Tasks Screen**

6. Select the **Create RDF Domain** check box to create the RDF domain. Deselect 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. The Installation Progress screen appears.

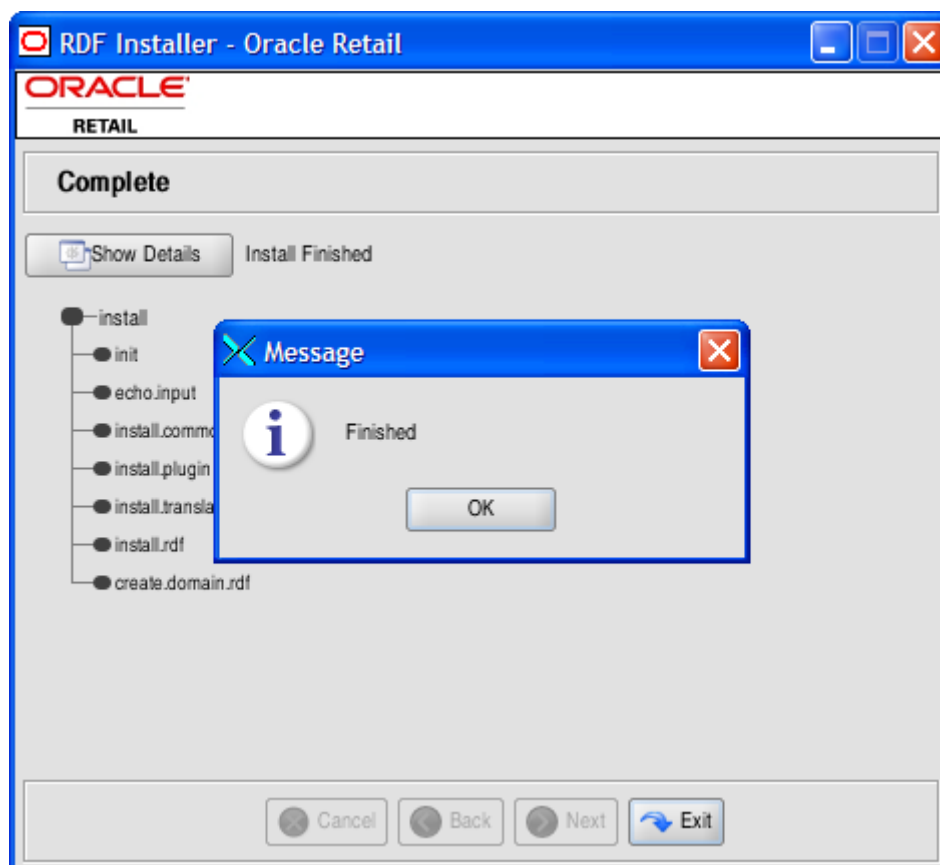


Installation Progress Screen

7. 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\_13 global domain, installation time might take 30 to 60+ minutes depending on server specifications.

When the installation process is complete, the Complete screen appears with Message dialog box.



#### Complete Screen

8. Click **OK** to close the dialog box.



9. 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.

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**Note:** The domain install process also includes post-installation data loading scripts specific to the RDF\_13 configuration. These scripts may also be modified.

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



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## Appendix: Manually Installing RDF

This section provides the manual processes for building the RDF\_13 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 *RPAS Installation Guide* for instructions on the above components.

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### Manually Installing RDF

Perform the subsequent procedure to manually install RDF.

1. Create the RDF installation directory and extract the RDF Media Pack.
  - a. Create an installation directory from which the RDF installation routine will be run. This directory will be referred to as [RDF Installation].
  - b. After downloading the package from Oracle E-Delivery, transfer the archive to the [RDF Installation] directory on the target server via FTP in binary mode.
  - c. Extract the package to the [RDF Installation] directory.

```
cd [RDF Installation]
unzip RDF-13.0.zip
```

Once extracted, the files required to manually install the RDF plug-ins, create the RDF domain, and install translation files can be found in the following path:  
[RDF Installation]/rdf/rdf/
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 plugin directory by changing to the root of the [RDF Installation] directory.
  - b. Navigate to [RDF Installation]/rdf/rdf/plugin/ directory and copy the contents of “resources/plugin” directory to the Configuration Tools installation (\$RIDE\_HOME)/resources/plugin directory.

3. Run `rpasInstall` to build the RDF\_13.

The following command may be used to install the “RDF\_13” 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_13 -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`.

**Note:** See the *RPAS Configuration Tools User Guide* for information on `rpasInstall`.

---

**Example:**

```
rpasInstall -fullinstall -dh C:\RDF\Domains -cn RDF_13 -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.

After the domain installation has completed, the sales data must be loaded into the domain using the `loadmeasure` utility.

Open a command prompt from the master domain (`/RDF_13`) 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_13/lom0`) and type the following command:

```
mace -d . -run -group common_batch
```

- b. Repeat this step for each of the remaining local domains (`/RDF_13/lom1` and `/RDF_13/lom2`).

## Appendix: 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

Perform the subsequent procedure to patch your RDF domain.

1. Extract the RDF patch.
  - a. Create a patch installation directory on your server. This location, which is referred to as [RDF Patch Install] in this document, is where the RDF patch installation routine will be run.
  - b. After downloading the package from Metalink, transfer the package using FTP in binary mode to the [RDF Patch Install] directory on the target server.
  - c. Extract the package to the [RDF Patch Install] directory.
 

```
cd [RDF Patch Install]
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 plugin directory by changing to the root of the [RDF Patch Install] directory.
  - b. Navigate to [RDF Patch Install]/plugin/ and copy the contents of "resources/plugin" directory to the Configuration Tools installation (\$RIDE\_HOME)/resources/plugin directory.
3. Using the Configuration Tools on a Windows machine, autogenerate 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 autogeneration 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:

  - /configurations
  - /ConfigurationName (RDF\_13 from the example)

If you are using WinZip to archive the configuration files, you must use `unzip -a` to unzip the archive on the UNIX server.
5. Run the RPAS `upgradeDomain` utility.
 

See the *RPAS Installation Guide* for information on the `upgradeDomain` utility.

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

The following command may be used to patch the “RDF\_13” 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_13 -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.

**Note:** See the *RPAS Configuration Tools User Guide* for information on `rpasInstall`.

---

**Example:**

```
rpasInstall -patchinstall -dh C:\RDF\Domains -cn RDF_13 -ch
C:\RDF\configurations -in C:\RDF\input -log C:\RDF\configurations\install.txt
-rf AppFunctions -rf RdfFunctions -rf LostSaleFunctions -rf ClusterEngine -p
pgrp
```

## Appendix: 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\_13 configuration, RDF\_ is the root to the Master domain.

**Partitiondim:** The partition dimension.

For RDF\_13, `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+#** is the default name given by RPAS to local domains. For the RDF\_13 configuration, post-install scripts are pre-configured to install and load data to the domains named **ldom0**, **ldom1**, and **ldom2**.

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

The RDF\_13 configuration will create three local domains. For example, **ldom0** will include all product positions at or below “`pgrp`” 1100.

#### Example file structure:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
<rpas>
  <globaldomain>
    <path>/Domains/RDF_13</path>
    <partitiondim>pgrp</partitiondim>
    <subdomain>
      <subpath>/Domains/RDF_13/ldom0</subpath>
      <subpositions>1100</subpositions>
    </subdomain>
    <subdomain>
      <subpath>/Domains/RDF_13/ldom1</subpath>
      <subpositions>1300</subpositions>
    </subdomain>
    <subdomain>
      <subpath>/Domains/RDF_13/ldom2</subpath>
      <subpositions>2500</subpositions>
    </subdomain>
  </globaldomain>
</rpas>
```

---

---

**Note:** If you use the above example xml file structure to install the RDF\_13 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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## Appendix: Run `rpasInstall` to Install RDF Domain(s)

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

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

- `AppFunctions`
- `RdfFunctions`

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

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

**Example 2:** 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 3:** 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
```

---

**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.

**Note:** See the *RPAS Configuration Tools User Guide* for information on using `rpasInstall`.

---