Oracle® Retail Predictive Application Server

Installation Guide for the Fusion Client

Release 13.0.4.20

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ORACLE®

Oracle® Retail Predictive Application Server Installation Guide for the Fusion Client, Release 13.0.4.20

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Oracle® Retail Predictive Application Server Installation Guide for the Fusion Client, Release 13.0.4.20

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- Are the examples correct? Do you need more examples?

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Preface

This guide enables you to install the Oracle Retail Predictive Application Server (RPAS) Fusion Client, along with the server-side components required for the application.

Audience

This guide is intended for system administrators and assumes that you are familiar with the following:

- Installing, configuring, and managing the application server software and security.
- Installing, configuring, and managing the relational database management systems. You must be familiar with the Database Administrator (DBA) level commands and tasks.
- Installing, configuring, and managing the distributed client/server applications on a UNIX-based local area network.

Related Documents

For more information, see the following documents in the Oracle Retail Predictive Application Server Fusion Client Release 13.0.4.20 documentation set or in the Oracle Retail Predictive Application Server documentation set:

- *Oracle Retail Predictive Application Server Release Notes*
- *Oracle Retail Predictive Application Server Licensing Information*
- *Oracle Retail Predictive Application Server Installation Guide*
- *Oracle Retail Predictive Application Server Administration Guide for the Fusion Client*
- *Oracle Retail Predictive Application Server Configuration Tools User Guide*
- *Oracle Retail Predictive Application Server User Guide for the Fusion Client*

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, 13.0) or a later patch release (for example, 13.0.4). If you are installing the base release, additional patch, and bundled hot fix releases, read the documentation for all releases that have occurred since the base release before you begin installation. Documentation for patch and bundled hot fix releases can contain critical information related to the base release, as well as information about code changes since the base release.

Oracle Retail Documentation on the Oracle Technology Network

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

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

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

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

Conventions

The following text conventions are used in this document:

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

1

Overview

This chapter provides an overview of the Oracle Retail Predictive Application Server (RPAS) Fusion Client and a road map for installing the application. It includes the following sections:

- Overview of the RPAS Fusion Client
- Overview of Oracle Wallet
- Road Map for Installing the RPAS Fusion Client

Overview of the RPAS Fusion Client

The RPAS Fusion Client is the Web-based Rich Client for the Retail Predictive Application Server (RPAS) platform developed using the latest Oracle Application Development Framework (ADF). It includes all the features available in the RPAS Windows-based Client and delivers an enhanced user experience that meets the performance and scalability requirements set for the RPAS platform.

Planning is one of the most important and complex processes in a retail business. It typically involves a complex set of activities that need to be followed as part of a workflow. Unlike the RPAS Windows-based client, the RPAS Fusion Client includes an *Activity Task Flow* feature that provides a robust workflow capability to make each planning activity easier to track and maintain.

The RPAS Fusion Client uses the same RPAS server as the current RPAS Windows-based client. You can continue to configure an RPAS solution and connect to it using the Web-based interface or the RPAS Windows-based client. Apart from the enhanced user experience, the Fusion Client provides access to a larger number of users and a certain degree of platform independence.

Overview of Oracle Wallet

As part of the Oracle Software Security Assurance (OSSA), sensitive information such as user credentials required for the RPAS Fusion Client installation will be encrypted and stored in a secure location called the Oracle Wallet.

When the installation starts, all the necessary user credentials will be retrieved from the Oracle Wallet based on the alias name associated with the user credentials.

About the RPAS 13.0.4.20 Hot Fix Installation Media

The RPAS Release 13.0.4.20 installation media is available as a hot fix for download on the My Oracle Support Web site. The installation media includes the complete upgrade package for the RPAS infrastructure along with the RPAS Fusion Client installation files. It includes:

- Files for upgrading the RPAS Server
- Files for upgrading the RPAS Configuration Tools
- Files for upgrading the RPAS Classic Client (Windows-based Client)
- Files for installing the RPAS Fusion Client

Before installing the RPAS Fusion Client, you must have the RPAS Release 13.0.4 already installed with all the relevant hot fixes, and then upgrade the RPAS Server, Configuration Tools, and Classic Client to Release 13.0.4.20.

For more information on upgrading to RPAS Release 13.0.4.20, refer to the *Oracle Retail Predictive Application Server Installation Guide Release 13.0.4.20*.

Road Map for Installing the RPAS Fusion Client

This guide explains how you can install and set up the RPAS Fusion Client application, along with the required and optional software.

The instructions in this guide assume knowledge of application servers, databases, and application installation or administration, and are intended for system administrators and experienced IT personnel. Before carrying out any of these activities, ensure that you understand UNIX commands (including shell configuration and scripting), directory operations, and symlinks.

In order to install RPAS Fusion Client for production, you must perform the following tasks in a sequence:

Table 1–1 Road Map for Installing the RPAS Fusion Client

Task	Description
Pre-installation Tasks	
1.	Plan your environment, based on your business needs. For more information on the planning process and the supported configurations, see Chapter 2, "Planning Your Installation".
2.	Install and set up the RPAS Infrastructure. For more information, see Chapter 3, "Setting Up the RPAS Infrastructure".
3.	Set up the WebLogic server. For more information, see Chapter 4, "Setting Up the WebLogic Server".
Installation Task	
4.	Access the RPAS Fusion Client installation software, set up the install.properties file, and run the Oracle installer. For more information, see Chapter 5, "Installing the RPAS Fusion Client".
Post-Installation Tasks	
5.	Set up the configuration properties file, pivot table styles, and layout and formatting. For more information, refer to the *Oracle Retail Predictive Application Server Administration Guide for the Fusion Client*.
6.	Install and set up the RPAS solution to work with the RPAS Fusion Client. For more information, refer to the Installation Guide of the relevant RPAS solution.

2

Planning Your Installation

Before installing the RPAS Fusion Client, you must first determine the performance and availability goals for your business, and then plan the hardware, network, and storage requirements accordingly. This chapter provides some basic considerations for the installation. It also includes the list of hardware and software requirements.

This chapter includes the following sections:

- Planning Your Environment
- Supported Configurations

Planning Your Environment

Planning your implementation prior to an installation also gives you a better understanding of the environment, and enables you to adapt faster to any future changes in the environment setup.

Use the following steps to plan and prepare the product environment:

1. Plan and design the infrastructure, based on your business needs, for the installation. This includes:
   - Meeting the hardware and associated software requirements.
   - Acquiring the prerequisite software (and licensing).
   - Setting up the load balancers and clusters.
   - Gathering the capacity data.
   - Planning the data security policies.
   - Designing the backup and recovery strategies.
2. Determine the size of the implementation.
3. Identify source systems. Identify the systems that will exchange data with RPAS Fusion Client.

Supported Configurations

This section describes the hardware and software requirements for the RPAS Fusion Client, and includes the following topics:

- RPAS Requirements
- Application Server Requirements
- Client System Requirements

RPAS Requirements

RPAS Fusion Client requires that the RPAS infrastructure and the RPAS domain for the application templates are already installed. The following table lists the RPAS requirements:

Table 2–1 RPAS Server Requirements

Software	Requirement
RPAS Server	Oracle Retail Predictive Application Server (RPAS) Release 13.0.4.20
Operating System (64-bit)	IBM AIX 6.1 Technology Level 1 (TL1) Service Pack 2 (SP2) IBM AIX 5.3 Technology Level 5 (TL5) or greater
JVM	JRE 1.5
Utilities	scp

For more information on the RPAS installation, refer to the *Oracle Retail Predictive Application Server Installation Guide Release 13.0.4.20*.

Application Server Requirements

RPAS Fusion Client requires the use of the Oracle WebLogic Server Release 11*g*R1.

The following table lists the requirements for the WebLogic Server:

Table 2–2 Requirements for the WebLogic Server

Software	Requirement
Operating System (64-bit)	IBM AIX 6.1 Technology Level (TL1) Service Pack 2 (SP2)
Application Server	Oracle WebLogic Server 11*g*R1 (Release 10.3.2)
JVM	IBM JDK 1.6 SR6 (64-bit)

Additional Required Companion Software

Along with the Oracle WebLogic Server 11*g*R1, you must also download and install the following companion software:

- Oracle Application Development Runtime 11g (11.1.1.2.0)

Client System Requirements

The following table lists the supported client system options:

Table 2–3 Client System Environment

Software	Requirements
Windows XP Professional SP3	■ Microsoft Internet Explorer 7.0 ■ RPAS Configuration Tools Release 13.0.4.20 ■ Adobe Flash Player 9 or higher

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Setting Up the RPAS Infrastructure

RPAS Fusion Client is included with the RPAS Release 13.0.4.20 installation media and requires that the RPAS Server and Configuration Tools are upgraded to Release 13.0.4.20. This chapter describes how you can access the RPAS installation media and provides information on upgrading the RPAS infrastructure. It includes the following sections:

- Downloading the RPAS Installation Media
- Upgrading the RPAS Infrastructure

Downloading the RPAS Installation Media

In order to upgrade to the Release 13.0.4.20, you first need to obtain the installation media. This section explains how you can download the RPAS software ZIP file from the My Oracle Support Web site.

To download the RPAS software:

1. In a Web browser, open the following URL:

   `https://support.oracle.com/`

   The My Oracle Support Web page appears.

2. Select a language and sign on to the Web site by clicking **Sign In**.

   Once signed in, the **My Oracle Support | Dashboard** screen appears.

3. Click the **Patches & Updates** tab.

4. On the **Patch & Updates** screen, under **Patch Search**, click **Product or Family (Advanced Search)**.

5. In the **Product is** field, select **Oracle Retail Predictive Application Server** from the drop-down list.

6. In the **Release is** field, expand **Oracle Retail Predictive Application Server** in the drop-down list, and select **Oracle Retail 13**.

7. Optionally, you can also choose a platform from the **Platform is** drop-down list.

8. Click **Search**. The **Patch Search Results** screen appears.

Note: If you know the patch ID or number, click Patch ID or Number. You will be prompted to enter the Patch ID or Number.

---

9. In the **Patch Search Results** screen, under **Patch ID**, click the patch ID with the description **Oracle Retail Predictive Application Server: Patchset RPAS 13.0.4.20 Patch Upload**.
10. On the next screen, click **Download** (appears on the left side of the screen).

> **Note:** On the Patch Search Results screen, you can also select the row that matches the patch description, and then click Download on the toolbar that appears under the selected row.

11. Unpack the ZIP file to a temporary directory. In this guide, the directory that contains the installation media is referred to as the <RPAS_CD_IMAGE> directory.

Upgrading the RPAS Infrastructure

Before upgrading the RPAS infrastructure, you must have the RPAS Release 13.0.4 already installed with all the relevant hot fixes, and then upgrade the RPAS Server, Configuration Tools, and Classic Client to Release 13.0.4.20.

For more information on upgrading to RPAS Release 13.0.4.20, refer to the *Oracle Retail Predictive Application Server Installation Guide Release 13.0.4.20*.

4

Setting Up the WebLogic Server

The RPAS Fusion Client is a Web-based client for RPAS. When you run the Fusion Client installer, the installer will require a domain set up over the WebLogic Server to deploy the Fusion Client as an application.

Before installing the RPAS Fusion Client, you must install the WebLogic Server and set up a domain for the Fusion Client. This chapter describes how you can set up the WebLogic Server for the Fusion Client. It includes the following sections:

- Installing the WebLogic Server
- Setting Up a WebLogic Domain

Important: Once you set up the WebLogic server and domain, you must take note of the location where you installed the WebLogic domain. You will need to set up this location as an environment variable, WEBLOGIC_DOMAIN_HOME, before running the Fusion Client installer.

Installing the WebLogic Server

Install the Oracle WebLogic Server Release 11gR1 (10.3.2) and Application Development Runtime Release 11g R1 (11.1.1.2.0) referring to the Oracle WebLogic Server Documentation for guidance.

In this guide, the WebLogic installation directory is referred to as the <WLS_HOME> directory.

Setting Up a WebLogic Domain

Use the WebLogic Configuration Wizard to create and set up a domain on the WebLogic Server. This section describes how you can create and set up a domain. It also introduces the steps to configure the managed servers and clusters on the application server. For more information on the WebLogic Configuration Wizard and customizing the domain environments with managed servers and clusters, refer to the *Oracle Fusion Middleware 11g Creating Domains Using the Configuration Wizard*.

To set up a WebLogic domain:

1. Navigate to the **<WLS_HOME>/common/bin** directory, and run the following command to start the WebLogic Configuration Wizard in the graphical mode:

   ```
   sh config.sh
   ```

2. On the WebLogic Configuration Wizard, follow the steps listed in the table below:

Table 4–1 Steps to Set Up a WebLogic Domain

Step	Screen	Task
1.	*Welcome Screen*	
		Click the **Create a new WebLogic domain** option, and then click **Next**.
2.	*Select Domain Source Screen*	
		Click the **Generate a domain configured automatically to support the following products** option, select the **Oracle JRF - 11.1.1.0 [oracle_common]** check box, and then click **Next**. Note that the **Basic WebLogic Server Domain - 10.3.2.0 [wlserver_10.3]** check box is automatically selected and greyed out.
3.	*Specify Domain Name and Location Screen*	
		Enter a domain name in the **Domain Name** field.
		In the **Domain location** field, specify the location where you want to install the domain. This location is referred to as the **WEBLOGIC_DOMAIN_HOME** all through this document.
4.	*Configure Administrator User Name and Password Screen*	
		Set up an administrative user name and password. **Important:** Please keep a note of the user name and password. You must specify this user name and password in the install.properties file. The Oracle Installer uses this user account to connect to the WebLogic Server during the RPAS Fusion Client installation.
5.	*Configure Server Start Mode and JDK Screen*	
		Under **WebLogic Domain Startup Mode**, click **Production Mode**.
		Under **JDK Selection**, select the relevant JDK.
		Click **Next**.
6.	*Select Optional Configuration Screen*	
		Select the configurations you want to customize and click **Next**. Go to Step 7.
		OR
		To proceed directly to creating your domain. Skip the following steps and go to Step 15.
7.	*Configure the Administration Server Screen*	
		Enter relevant information in the following fields: ■ **Name** – Valid server name. (String of characters that can include spaces.) ■ **Listen address** – Listen address for a server instance. ■ **Listen port** – Valid value for the listen port. ■ **SSL listen port** – Valid value to be used for secure requests. ■ **SSL enabled** – Select this check box to enable SSL. You can enter values in the SSL listen port field once you select this check box.
		Click **Next**.

Table 4–1 (Cont.) Steps to Set Up a WebLogic Domain

Step	Screen	Task
8.	*Configure Managed Servers Screen*	
		Click **Add**, and then enter relevant information in the following fields: ■ **Name** – Valid server name. (String of characters that can include spaces.) ■ **Listen address** – Listen address for a server instance. ■ **Listen port** – Valid value for the listen port. ■ **SSL listen port** – Valid value to be used for secure requests. Repeat this step to add more managed servers.
		Click **Next**.
9.	*Configure Clusters Screen*	
		This window appears, once you specify the managed servers. Click **Add**, and then enter relevant information in the following fields: ■ **Name** – Valid cluster name. (String of characters that can include spaces.) ■ **Multicast address** – Address used by the cluster members to communicate with each other. ■ **Multicast port** – Port used by the cluster members to communicate with each other. ■ **Cluster address** – Address that identifies the Managed Servers in the cluster. Repeat this step to specify more clusters.
		Click **Next**.
10.	*Assign Servers to Clusters Screen*	
		Use the arrow buttons and assign the servers to the clusters specified in the domain.
		Click **Next**.
11.	*Configure Machines Screen*	
		Click **Add**, and then add the machine (Unix-based) information.
		Click **Next**.
12.	*Assign Servers to Machines Screen*	
		Use the arrow buttons and assign the managed servers to the machines specified in the domain.
		Click **Next**.
13.	*Target Deployments to Clusters or Servers*	
		In the left pane, select the clusters or servers, and then select the relevant application check boxes in the right pane to target them to the specific cluster or managed server.
		For each cluster and managed server, select the **Library** check box. The WebLogic domain must be set up in such a manner that all the clusters and the relevant managed servers include all the libraries included with the WebLogic server.

Table 4–1 (Cont.) Steps to Set Up a WebLogic Domain

Step	Screen	Task
14.	*Target Services to Clusters or Servers*	
		In the left pane, select the clusters or servers, and then select the relevant services check boxes in the right pane to target them to the specific cluster or managed server.
15.	*Configuration Summary Screen*	
		Review and confirm the configuration summary, and then click **Next**.
16.	*Creating Domain Screen*	
		Displays the domain configuration progress.
		Once the configuration is complete, click **Done**.

Setting Up the Maximum Heap Size

Once you have set up the WebLogic domain, ensure that you set up the maximum heap size for the WebLogic server. Setting a maximum heap size depends on your implementation.

For a server system with 4GB RAM and a 64-bit JVM running a single instance of the WebLogic server, it is recommended to have a maximum heap size of 3800MB. In a similar manner, a system with a 2GB RAM must have a maximum heap size of 1600MB.

For more information on heap sizing, refer to the Sun Java documentation on Java Performance Tuning and the *Oracle Fusion Middleware Performance and Tuning for Oracle WebLogic Server*.

Configuring the Node Manager for Clusters-based Installation

In case you want to deploy the application to a target server other than the administrative server, the default method that the node manager starts the managed servers is not the same as the way the startWebLogic.sh script starts the managed servers on the command line. A managed server started in the default method may not read all the necessary classes the RPAS Fusion Client references. This may cause failures during the installation. To avoid this issue, you must change the way the node manager starts the managed servers.

To change the way the node manager starts the managed servers:

1. Navigate to the following location on the WebLogic Server:

   ```
   <WLS_HOME>/common/nodemanager
   ```

   This location is also called the default node manager root directory.

2. Open the **nodemanager.properties** file for editing and set the following parameters:

   - **StartScriptEnabled** – set to **true**.
   - **StartScriptname** – set to **startWebLogic.sh**.

3. Navigate to the **WEBLOGIC_DOMAIN_HOME** directory, copy the **startWebLogic.sh**, and place it in the following location:

   ```
   WEBLOGIC_DOMAIN_HOME/bin/service_migration/
   ```

   The node manager will use the **startWebLogic.sh** script to start the managed servers.

4. Restart all the node managers and managed servers.

5

Installing the RPAS Fusion Client

Once you have the WebLogic Server and RPAS installed, you can start installing the RPAS Fusion Client. This chapter describes how you can install the RPAS Fusion Client. It also includes instructions on any post-installation tasks you may need to perform to get the application running.

This chapter includes the following sections:

- Accessing the Installation Media
- Overview of the Installation Process
- Setting Up Your Installation Properties File
- Setting Up Environment Variables
- Installing RPAS Fusion Client in Silent Mode
- Installing RPAS Fusion Client Using the Swing or Text Mode
- Post-Installation Tasks
- Troubleshooting

> **Note:** Before you run the RPAS Fusion Client Installer, ensure that the WebLogic Server and RPAS server are configured and running.

Accessing the Installation Media

The RPAS Fusion Client installation media is included with the RPAS Release 13.0.4.20 installation media. The installation files for the RPAS Fusion Client is available at the following location in the <RPAS_CD_IMAGE> directory:

```
<RPAS_CD_IMAGE>/fusion/
```

> **Note:** <RPAS_CD_IMAGE> is the temporary location where the RPAS 13.0.4.20 installation media files were unpacked. For more information, see Downloading the RPAS Installation Media.

Overview of the Installation Process

The RPAS Fusion Client Installation media includes an Oracle installer that you must run to install the RPAS Fusion Client. The installer installs the application based on the parameters specified in an installation properties file. You can install the application in the following modes:

- Swing or Text mode - In swing or text mode, the Oracle Installer will prompt you to enter or modify the value of properties specified in the installation properties file.
- Silent mode - In silent mode, the installer processes the values set in the properties file with no manual intervention required.

Whichever mode you use, it is recommended that you set up the installation properties file.

Setting Up Your Installation Properties File

In order to install the RPAS Fusion Client, it is recommended that you set up the installation properties file (ant.install.properties) before running the installer.

Note: For an installation in silent mode, you must set up the installation properties file before running the installer.

To set up your install.properties file:

1. Navigate to the RPAS Fusion Client directory, copy the **ant.install.properties.template** file to the same directory, and rename it **ant.install.properties**.
2. Edit the **ant.install.properties** file using any Text editor, specifying values as described within the file, and save it. For more information on the parameters, see Installation Properties File Parameter Reference.

Note: Ensure that the **ant.install.properties** file is available in the same directory with the **install.sh** script.

Installation Properties File Parameter Reference

The following table describes the parameters in the ant.install.properties file that you must set up before you install the RPAS Fusion Client application:

Table 5–1 Installation Properties File Parameter Reference

Parameter Name	Description
WebLogic Admin Server Information	
input.appserver.host	Specify the host name of the application server.
input.admin.server.port	Specify the port number associated with the application server.
input.admin.username	Specify the administrative user name for the application server.

Table 5–1 (Cont.) Installation Properties File Parameter Reference

Parameter Name	Description
input.admin.username.alias	Specify an alias name for the administrative user. Specifying an alias name for the administrative user enhances the security for the application. When left blank, the alias name will default to the administrative user name.
input.admin.password	Specify the password associated with administrative user name.
Clustered Installation Information	
input.is.cluster.install	Specify whether you want to install the application on a cluster of hosts (set the value to *yes*). To install the application on a single server instance, set the value to *no*.
Retrieve SSH Credential Applies to cluster-based installations only.	
input.ssh.retrieve.credentials	Specify whether you want to retrieve the existing SSH credentials.
SSH Credentials Applies to cluster-based installations only.	
input.ssh.authentication.mode	Specify one of the following authentication methods: ■ *password* - Use the specified password (associated with the SSH User Name) to connect to the remote hosts for copying the files. ■ *passphrase* - Use the specified passphrase (associated with the SSH User Name) along with the SSH Key to connect to the remote hosts. ■ *default* - Connect to the remote hosts without a user name, password, or passphrase.
input.ssh.username	Specify the SSH use name to connect to the remote hosts.
input.ssh.username.alias	Specify the alias name associated with the SSH user name.
input.ssh.keyfile	In case you set the value *passphrase* for the *input.ssh.authentication.mode* parameter, enter the location of the SSH key file. When left blank, the installer will retrieve the file from `${user.home}/.ssh/id_dsa` directory, where `user.home` is the your home directory. To use this default location, ensure that you have the private DSA key stored at this location.
input.ssh.pwOrPassphrase	Based on the authentication method you set, enter the relevant SSH password or passphrase.
Target Installation Directory	
input.install.target.dir	Specify the location where you want to install the RPAS Fusion Client.
Logs and Temporary Directories	
input.app.log.dir	Specify the location for the application log files.
input.install.log.dir	Specify the location for the installation log files.
input.install.tmp.dir	Specify the location for the temporary file directory used during installation.

Table 5–1 (Cont.) Installation Properties File Parameter Reference

Parameter Name	Description
Application Server Information	
input.target.server.name	Specify the cluster or server name where you want install the RPAS Fusion Client.
input.target.server.port	Specify the port associated with the cluster or server.
Application Deployment Information	
input.app.name	Specify an application name. The RPAS Fusion Client will be deployed over the WebLogic Server with this name.
input.app.context.root	Specify the context root for the application. Once deployed, the RPAS Fusion Client will be available on the Web browser using this context path. For example, in case you set the context root to *rav*, you can access the application using the URL *http://<hostname>:<port>/rav*.
input.app.image.repository	Specify the location or a network path where the images used in the application are located.
RPAS Information	
input.rpas.details.known	Specify whether you know the details of the RPAS infrastructure and domain.
input.rpas.connection.spec	Specify the connection specification name for the RPAS domain.
input.rpas.server.name	Specify the host name where the RPAS infrastructure is installed.
input.rpas.server.port	Specify the post associated with the RPAS installation.
input.rpas.domain.name	Specify the name of the RPAS domain.
input.rpas.domain.path	Specify the location where the RPAS domain is installed.

Note: When the installation starts, values set for all the user credentials will be encrypted and stored in the Oracle Wallet, and then cleared from the ant.install.properties file.

Setting Up Environment Variables

Before you start the installation, ensure that the following environment variables are set in the system:

- JAVA_HOME – Location where the Java is installed.
- ORACLE_HOME – Location where the WebLogic Server is installed.
- WEBLOGIC_DOMAIN_HOME – Location where the WebLogic domain is installed. For more information, see Setting Up the WebLogic Server.

Although it is recommended that these variables be set up in relevant bash shell startup files (*.bash_profile*) of the system, you can also set up the variables using the *EXPORT* command at the UNIX prompt. For more information on setting up these variables in the startup files, refer to the operating system documentation.

To set up the environment variables for the current session, at the UNIX prompt type the following commands in sequence:

```
export ORACLE_HOME=<path where the WebLogic Server is installed>
For example, /u01/app/oracle/middleware

export WEBLOGIC_DOMAIN_HOME=<path where the WebLogic domain is installed>
For example, /u01/app/oracle/middleware/user_projects/domains/base_domain
```

Installing RPAS Fusion Client in Silent Mode

This section describes how to install RPAS Fusion Client in silent mode. Silent mode is non-interactive.

To install RPAS Fusion Client in silent mode:

1. Ensure that you have completed "Setting Up Your Installation Properties File" on page 5-2.

   Note: Ensure that the **ant.install.properties** file is available in the same directory with the **install.sh** script.

2. Ensure that the RPAS Domain and WebLogic Server are running.
3. Navigate to the RPAS Fusion Client installation folder, enter the following command:

   ```
   ksh install.sh silent
   ```

install.sh

The install.sh command enables you to install RPAS Fusion Client.

Syntax

install.sh <mode name>

Arguments

Use any arguments listed below as needed.

Argument	Description
<mode name>	Use this argument to specify the installation mode. You can specify the following: ■ **swing** – to launch a graphical installer. This is the default installation mode. In case you do not specify a mode, the installer defaults to swing mode. ■ **text** – to launch the installer with instructions that appear as text on screen. ■ **silent** – to start the installation based on the parameters set up in the *ant.install.properties* file. No manual intervention is required.

Output

The RPAS Fusion Client installation creates the application directory structure, populates it with appropriate files, and when the installation finishes, it generates a log file and two properties files.

Installing RPAS Fusion Client Using the Swing or Text Mode

If you prefer to use a guided user interface, you can use the Oracle Installer in the swing or text mode. Although this section describes how you can install the RPAS Fusion Client in swing mode, the same on-screen instructions appear as text instructions in the text mode.

To install RPAS Fusion Client using the Swing Mode:

1. Ensure that you have completed "Setting Up Your Installation Properties File" on page 5-2.

   Note: Although you can run the installation without setting up the installation properties file, ensure that you set up the installation properties file, and then start the installation.

2. Ensure that the RPAS Domain and WebLogic server are running.
3. If you are viewing the installer from a Windows client:
   - On the **Windows** client, start an **Xserver** program that enables you to emulate the X terminal.
   - On the application server, set the display for the Windows client where you want the Oracle Installer to display as follows:

     ```
     export DISPLAY=<IP address>:0.0
     ```

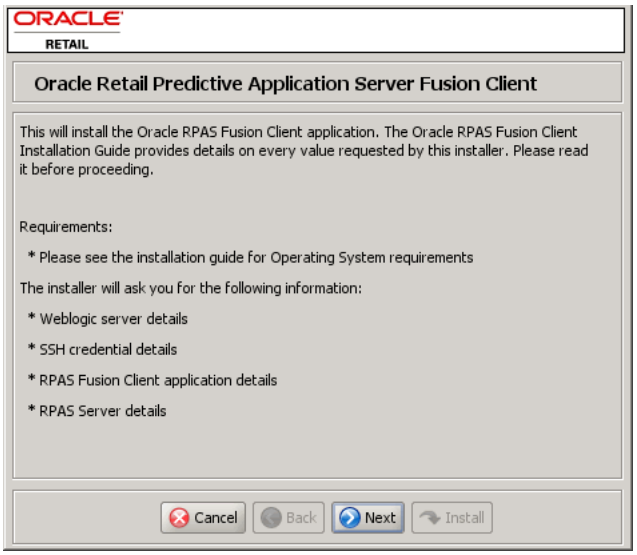
4. From your application server machine, enter the following command:

   ```
   ksh install.sh
   ```

   Note: For more information about this command, see Installing RPAS Fusion Client in Silent Mode.

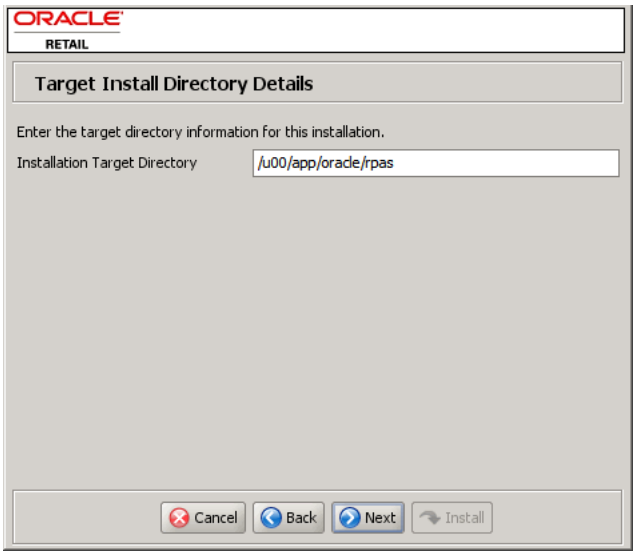
   The **Oracle Retail Predictive Application Server Fusion Client** screen appears.

Figure 5–1 Oracle Retail Predictive Application Server Fusion Client Screen



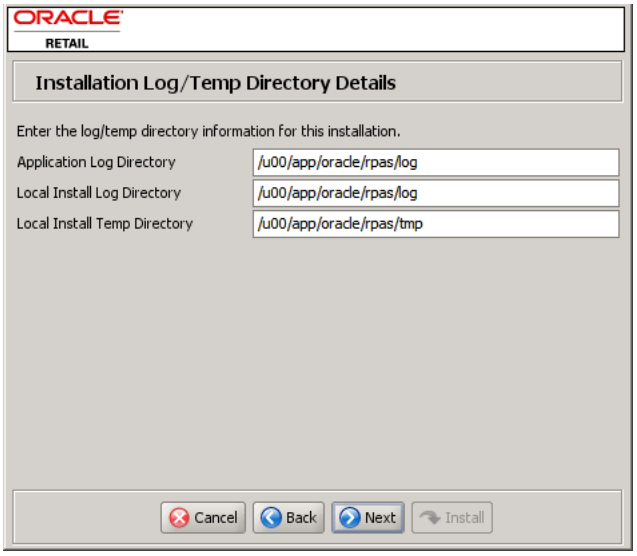
5. Click **Next**. The **Target Install Directory Details** screen appears.

Figure 5–2 Target Install Directory Details Screen



6. In the **Installation Target Directory** field, specify the location where you want to install the RPAS Fusion Client, and click **Next**. The **Installation Log/Temp Directory Details** screen appears.

Figure 5–3 Installation Log/Temp Directory Details Screen

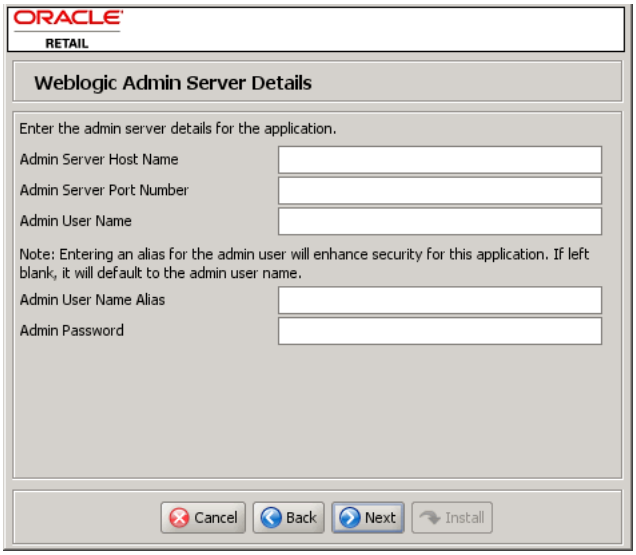


7. Enter the relevant information in the following fields:
   - **Application Log Directory** – Specify the location for the application log files.
   - **Local Install Log Directory** – Specify the location for the installation log files.
   - **Local Install Temp Directory** – Specify the location for the temporary file directory used during installation.

Note: By default, the fields are pre-populated based on the installation directory you specified in the Target Installation Directory screen.

8. Click **Next**. The **WebLogic Admin Details** screen appears.

Figure 5–4 WebLogic Admin Details Screen



9. On the **WebLogic Admin Details** screen, enter appropriate information for the following fields:

   - **Admin Server Host Name** - Specify the host name of the application server.
   - **Admin Server Port Number** - Specify the port number associated with the application server.
   - **Admin User Name** - Specify the administrative user name for the application server.
   - **Admin User Name Alias** - Specify an alias name for the administrative user. Specifying an alias name for the administrative user enhances the security for the application. When left blank, the alias name will default to the administrative user name.

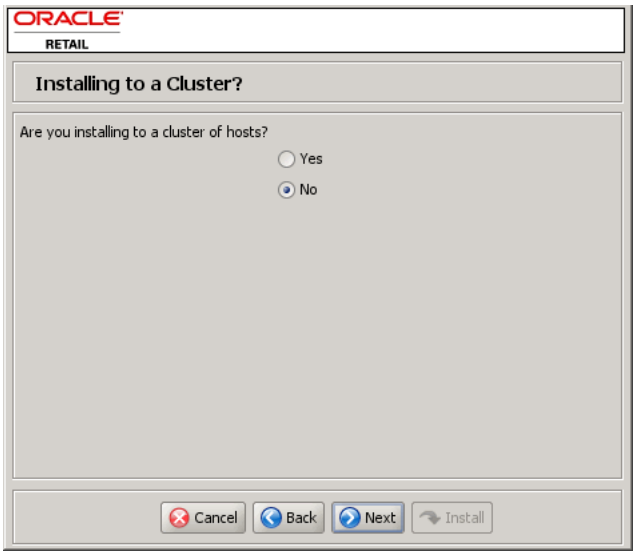
     Note: As part of the Oracle Software Security Assurance, sensitive information such as user credentials for the RPAS Fusion Client are encrypted and stored in a secure location in the application installation directory. This location is called the Oracle Wallet.

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

   - **Admin Password** - Specify the password associated with administrative user name.

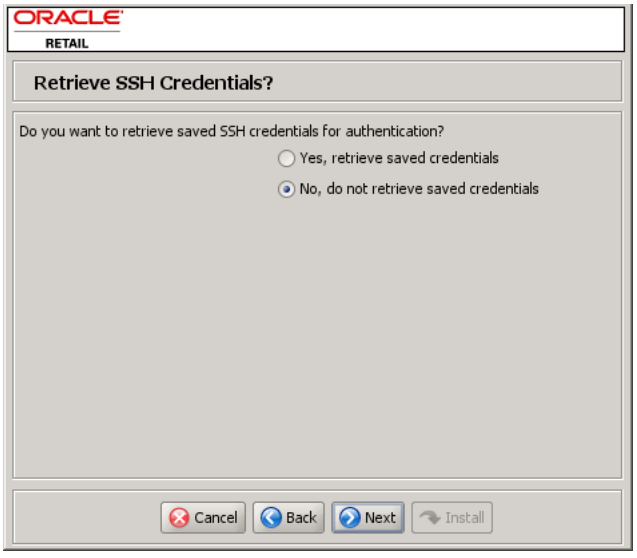
10. Click **Next**. The **Installing to a Cluster?** screen appears.

Figure 5–5 Installing to a Cluster? Screen



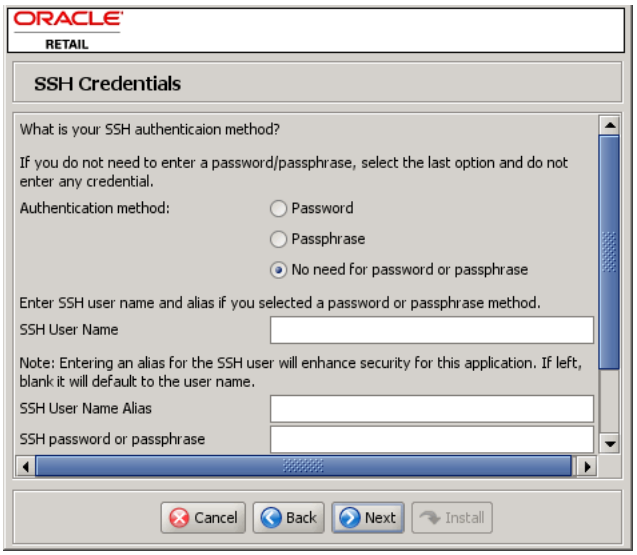
11. On the **Installing to a Cluster?** screen, specify whether you are installing the application over a cluster of hosts:
    - Select **Yes** to indicate an installation over clusters and go to **Step 12**.
    - Select **No** to indicate an installation on a single target server and go to **Step 15**.
12. Click **Next**. The **Retrieve SSH Credentials?** screen appears.

Figure 5–6 Retrieve SSH Credentials? Screen



13. On the **Retrieve SSH Credentials?** screen, specify whether you want to retrieve the existing SSH credentials, and click **Next**. The **SSH Credentials** screen appears.

Figure 5–7 SSH Credentials Screen



14. On the **SSH Credentials** screen, enter the relevant information in the following fields:

- **Authentication method** - Select one of the following authentication methods:

  – **Password** - Use the specified password (associated with the SSH User Name) to connect to the remote hosts for copying the files.

  – **Passphrase** - Use the specified passphrase (associated with the SSH User Name) along with the SSH Key to connect to the remote hosts.

  – **No need for password or passphrase** - Default option - Connect to the remote hosts without a user name, password, or passphrase.

- **SSH User Name** - Specify the SSH user name to connect to the remote hosts.
- **SSH User Name Alias** - Specify the alias name associated with the SSH user name. Specifying an alias name enhances the security for the application. When left blank, the alias name will default to the administrative user name.

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

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

- **SSH password or passphrase** - Based on the authentication method you selected, enter the relevant SSH password or passphrase.
- **SSH Key File Path** - In case you selected the Passphrase option in the **Authentication Method** field, enter the location of the SSH key file.

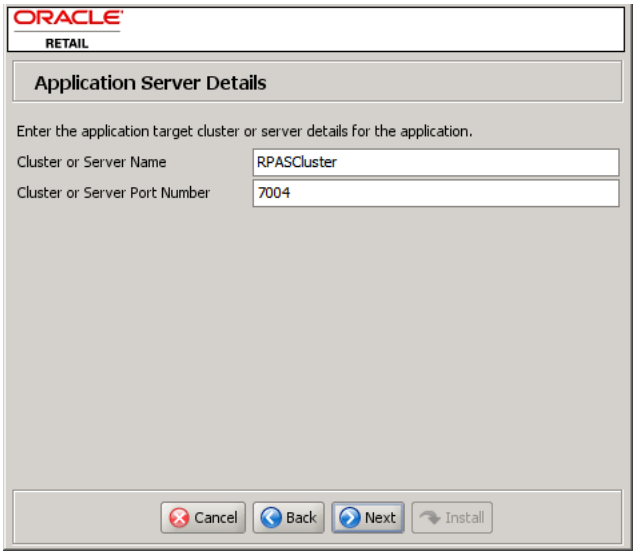
  When left blank, the installer will retrieve the file from `${user.home}/.ssh/id_dsa` directory, where `user.home` is the your home directory. To use this default location, ensure that you have the private DSA key stored at this location.

Note: The **SSH User Name** and **SSH password or passphrase** fields do not appear when you choose to retreive the existing SSH credentials (the **Yes, retrieve saved credentials** option in the **Retrieve SSH Credentials?** screen).

The existing SSH user credentials will be retrieved based on the alias name for the SSH user.

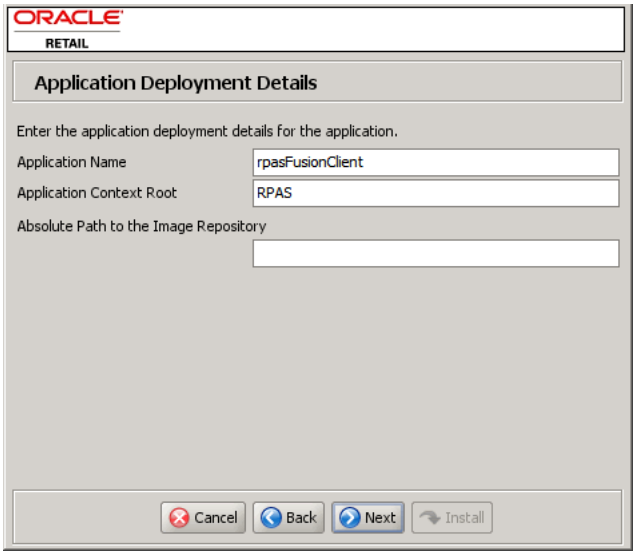
15. Click **Next**. The **Application Server Details** screen appears.

Figure 5–8 Application Server Details Screen



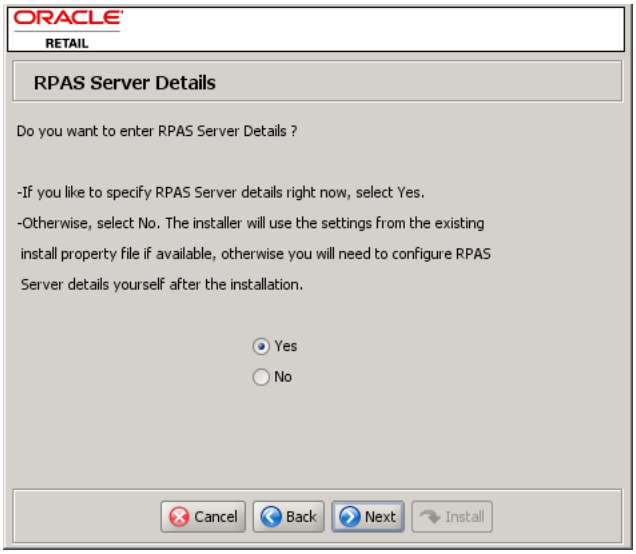
16. Enter the cluster or server name and associated port number where you want to deploy the application, and click **Next**. The **Application Deployment Details** screen appears.

Figure 5–9 Application Deployment Details Screen



17. Enter relevant information for the following fields and click **Next**:
    - **Application Name** – Specify an application name. The RPAS Fusion Client will be deployed over the WebLogic Server with this name.
    - **Application Context Root** – Specify the context root for the application. Once deployed, the RPAS Fusion Client will be available on the Web browser using this context path. For example, in case you set the context root to *rav*, you can access the application using the URL *http://<hostname>:<port>/rav*.
    - **Absolute Path to the Image Repository** – Specify the location or a network path where the images used in the application are located.
18. Click **Next**. The **RPAS Server Details** screen appears.

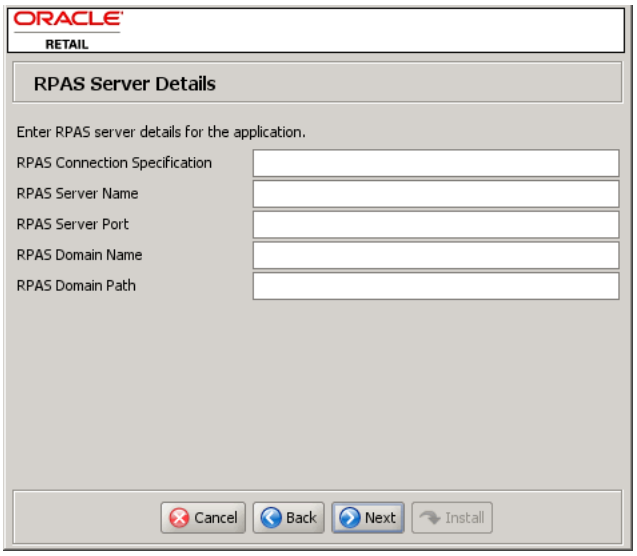
Figure 5–10 RPAS Server Details Screen



19. On the **RPAS Server Details** screen, select one of the following options:
    - Select **Yes** to enter RPAS Server and Domain details in the Installer. During the installation, the relevant RPAS Fusion Client configuration files will be updated based on the information you enter here. Go to **Step 20**.
    - Select **No** to skip adding the RPAS Server and Domain details and add them later manually. For more information on adding this configuration manually, refer to the Oracle Retail Predictive Application Server Fusion Client Administration Guide. Go to **Step 22**.

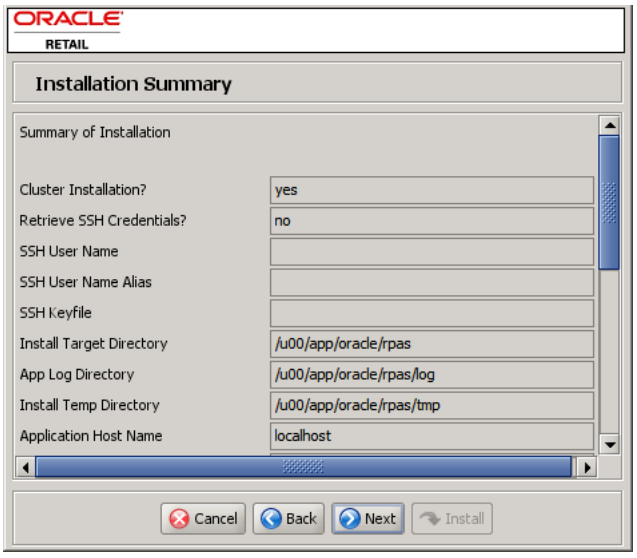
20. Click **Next**. The **RPAS Server Details** screen appears again with fields to collect RPAS Server information.

Figure 5–11 RPAS Server Details Screen



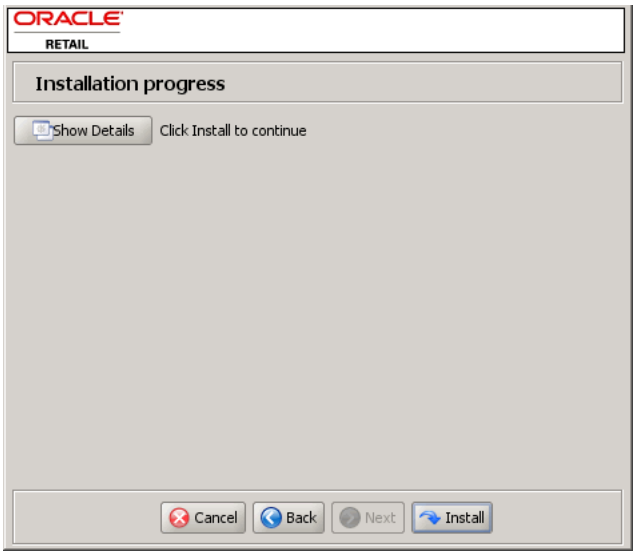
21. Enter relevant information for the following fields:
    - **RPAS Connection Specification** - Specify the connection specification name for the RPAS domain.
    - **RPAS Server Name** - Specify the host name where the RPAS infrastructure is installed.
    - **RPAS Server Port** - Specify the post associated with the RPAS installation.
    - **RPAS Domain Name** - Specify the name of the RPAS domain.
    - **RPAS Domain Path** - Specify the location where the RPAS domain is installed.
22. Click **Next**. The **Installation Summary** screen appears.

Figure 5–12 Installation Summary Screen



23. Review the installation summary and click **Next**. The **Installation Progress** screen appears.

Figure 5–13 Installation Progress Screen



24. Click **Install** to start the installation.
25. Once the installation is complete, click **Exit** to close the Installer.
26. Restart the WebLogic server, and then verify that the application is accessible over the network. In a Web browser, enter the following URL in the **Address** bar, and press **Enter**:

    `http://<hostname>:<portnumber>/<contextroot>`

Note: In the URL above, `<hostname>` , `<portnumber>`, and `<contextroot>` represent the host name, port, and context root you set up for the application during the installation. You must specify the relevant values in the Address bar.

Post-Installation Tasks

Before you log on to the application, you must set up the Fusion Client based on your business need. This includes the following tasks:

- Set up the configuration properties file, pivot table styles, and layout and formatting. For more information, refer to the *Oracle Retail Predictive Application Server Fusion Client Administration Guide*.
- Set up the RPAS solution to work with the RPAS Fusion Client. For more information, refer to the Installation Guide of the relevant RPAS solution.

Troubleshooting

This section lists possible solutions for some issues that may occur when using the application.

Error Occurs When Users Access the Charting Feature in the RPAS Fusion Client

In case the users try accessing the application from a system that does not have a connected Display/Video card, they may encounter the following error message when they try using the charting feature for the first time:

```
Sun.awt.X11GraphicsEnvironment (initialization failure)
For more information, please see the server's error log for an entry beginning
with: Server Exception during PPR, #
```

To avoid this issue, you must set up the WebLogic Startup script with the java.awt.headless parameter using the following steps:

1. Navigate to the following location on the system where the application server is installed:

   ```
   <WEBLOGIC_DOMAIN_HOME>/bin/
   ```

2. In a Text Editor, open the **startWeblogic.sh** script for editing.
3. Append the following parameters to the **set JAVA_OPTIONS = %SAVE_JAVA_OPTIONS%** statement:

   ```
   -Djava.awt.headless=true
   ```

   Once set up, the JAVA_OPTIONS statement will appear as the example below:

   ```
   set JAVA_OPTIONS=%SAVE_JAVA_OPTIONS% -Djava.awt.headless=true
   ```

4. Save and close the file.
5. For the changes to take effect, restart the WebLogic Server.

A

Appendix: Installation Order

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

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

Enterprise Installation Order

1. Oracle Retail Merchandising System (RMS), Oracle Retail Trade Management (RTM), Oracle Retail Sales Audit (ReSA)
2. Oracle Retail Service Layer (RSL)
3. Oracle Retail Extract, Transform, Load (RETL)
4. Oracle Retail Active Retail Intelligence (ARI)
5. Oracle Retail Warehouse Management System (RWMS)
6. Oracle Retail Allocation
7. Oracle Retail Invoice Matching (ReIM)
8. Oracle Retail Price Management (RPM)

Note: During installation of 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 jndi_providers_ribclient.xml file.

9. Oracle Retail Central Office (ORCO)
10. Oracle Retail Returns Management (ORRM)
11. Oracle Retail Back Office (ORBO) or Back Office with Labels and Tags (ORLAT)
12. Oracle Retail Store Inventory Management (SIM)

Note: During installation of SIM, you are asked for the AIP provider URL. Since AIP is installed after SIM, make a note of the URL you enter. If you need to change the AIP provider URL after you install AIP, you can do so by editing the jndi_providers_ribclient.xml file.

13. Oracle Retail Predictive Application Server (RPAS)
14. Oracle Retail Demand Forecasting (RDF)
15. Oracle Retail Category Management (CM)
16. Oracle Retail Replenishment Optimization (RO)
17. Oracle Retail Analytic Parameter Calculator Replenishment Optimization (APC RO)
18. Oracle Retail Regular Price Optimization (RPO)
19. Oracle Retail Merchandise Financial Planning (MFP)
20. Oracle Retail Size Profile Optimization (SPO)
21. Oracle Retail Assortment Planning (AP)
22. Oracle Retail Item Planning (IP)
23. Oracle Retail Item Planning configured for COE (IPCOE)
24. Oracle Retail Advanced Inventory Planning (AIP)
25. Oracle Retail Integration Bus (RIB)
26. Oracle Retail Point-of-Service (ORPOS)
27. Oracle Retail Analytics Applications
28. Oracle Retail Data Warehouse (RDW)
29. Oracle Retail Workspace (ORW)