Oracle® Retail Advanced Inventory Planning

Installation Guide

Release 13.2

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Oracle Retail Advanced Inventory Planning Installation Guide, Release 13.2

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Value-Added Reseller (VAR) Language

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Preface

This *Oracle Retail Advanced Inventory Planning Installation Guide* describes the requirements and procedures to install this Oracle Retail Advanced Inventory Planning release.

Audience

This Installation Guide is for the following audiences:

- Database administrators (DBA)
- System analysts and designers
- Integrators and implementation staff

Documentation Accessibility

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Related Documents

For more information, see the following documents in the Oracle Retail Advanced Inventory Planning Release 13.2 documentation set:

- *Oracle Retail Advanced Inventory Planning Release Notes*
- *Oracle Retail Advanced Inventory Planning Administration Guide*
- *Oracle Retail Advanced Inventory Planning Implementation Guide*
- *Oracle Retail Advanced Inventory Planning Installation Guide*
- *Oracle Retail Advanced Inventory Planning Operations Guide*
- *Oracle Retail Advanced Inventory Planning Store Replenishment Planning User Guide*
- *Oracle Retail Advanced Inventory Planning Warehouse Replenishment Planning User Guide*
- *Oracle Retail Advanced Inventory Planning Data Management - Online Help*
- *Oracle Retail Advanced Inventory Planning Data Management User Guide*
- *Oracle Retail Advanced Inventory Planning Order Management - Online Help*
- *Oracle Retail Advanced Inventory Planning Order Management User Guide*
- *Oracle Retail Advanced Inventory Planning Data Model Volume 1 - Oracle Database Data Model*
- *Oracle Retail Advanced Inventory Planning Data Model Volume 2 - Measure Reference Guide*

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- 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

(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

Introduction

About the AIP Installation Process

This guide provides the full and patch installation instructions for Advanced Inventory Planning (AIP) version 13.2.

If you are installing the application for the first time, you install either a base release (for example, 13.0) or a later patch release (for example, 13.0.2). If you are installing a software version other than the base release, be sure to read the documentation for each patch release (since the base release) before you begin installation. Patch documentation can contain critical information related to the base release and code changes that have been made since the base release.

The process described in this document begins after the .zip files have been properly downloaded from `http://edelivery.oracle.com`. License keys for licensed products must be obtained before beginning the installation process.

About This Document

This document describes how to install AIP 13.2, or upgrade an AIP 13.0.2.x, or 13.1.x.x installation to AIP 13.2. The AIP installation consists of the following components:

- The Oracle® Retail Predictive Applications Server (RPAS) version 13.2.0.1 domain using a configuration established by Oracle Retail developers.
- An online component based on Java and Oracle.

Detailed instructions for unpacking the software and installing both the RPAS and the online portion of the AIP 13.2 solution appear in this guide.

Before you begin installing AIP, you should read the *Oracle Retail Predictive Application Server Installation Guide*. Additional documentation may be required during the installation process and is referenced where applicable.

Read this entire document before beginning the installation process to ensure you understand the installation process and have all the necessary documentation, hardware, and software available.

Note: AIP Java/Oracle, AIP on Oracle, and AIP Oracle are often used interchangeably to refer to those parts of AIP that access the Oracle relational database. This includes the Data Management and Order Management GUI components and a host of UNIX shell scripts and PL/SQL modules.

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Compatibility and Hardware Requirements

Supported Oracle Retail Products

This version of AIP is compatible with the following Oracle Retail products:

- Oracle Retail Extract Transform and Load (RETL) 13.1.3
- Oracle Retail Replenishment Optimization 13.2

> **Note:** AIP 13.2 can integrate with RMS 10.1.x, 11.0.x, and 13.x if a custom interface is used to transmit AIP-generated purchase orders and transfers to RMS.

Server Operating Systems

This version of AIP is compatible with the following server operating systems:

- Oracle Solaris 10
- AIX 5.3, 6.1
- HP-UX 11.31 (Integrity)
- OEL 5.3

Korn Shell

This version of AIP is compatible with the following versions of Korn shell:

- ksh88 (Solaris, AIX, HP-UX)
- ksh93 (OEL)

Server JRE

General requirements for the server Java Run Time Environment (JRE) are as follows.

- JRE 1.6

Database

This version of AIP is compatible with the following database:

- Oracle 11g Enterprise Edition Release 2 (version 11.2.0.1.0) in clustered topology.
- Oracle 11g Enterprise Edition Release 2 (version 11.2.0.1.0) in standalone configuration.

JDBC drivers

This release requires OCI (thick) driver for use in RETL 13.1.3.

RPAS

RPAS 13.2.0.1, which includes RPAS Server and RPAS Configuration Tools. Refer to the Oracle Retail Predictive Application Server documentation for information on installing and administering RPAS.

- RPAS 13.2.0.1
- Java SE 1.6
- unzip utility (on UNIX)

Application Server

General requirements for an application server capable of running the AIP Oracle application include:

- Oracle WebLogic Server 11g (10.3.3.0)

Client PC and Web Browser Requirements

Client PC Requirements

The client PC requirements are as follows:

- Windows XP operating system
- 1024x768 or higher display resolution
- 1GHz or higher processor
- 256 MB or higher memory
- Intranet network connectivity with at least 10Mbps data rate

Client Browser Requirements

The client browser requirements are as follows:

- Microsoft Internet Explorer 5.5, 6.0, 7.0.

General requirements for the client Java Run Time Environment (JRE) are as follows:

- JRE 1.6

3

Preparing for Installation

Package Contents

A complete AIP 13.2 solution is delivered in the following files, which can be obtained from `http://edelivery.oracle.com`:

- AIP 13.2 Media Pack

Verify Contents

Follow these steps to verify the package contents.

1. Download the files and unpack the AIP Media Pack. The media pack contains an AIP-13.2-install zip file in the CDROM folder, which contains the following files when extracted:
   - AIP-rpas-installer.zip
   - AIP13.2-db-upgrade.zip
   - AIP-online-appserver-installer.zip - Requires RIB 13.1.1 on Oracle Application Server 10.1.3.4
   - AIP-online-dbserver -installer.zip - Requires RIB 13.1.1 on Oracle Application Server 10.1.3.4.
2. Verify that all files listed in step1 appear in the AIP Media Pack.

Installation Setup

Preparing Your Windows Workstation

Unpack the AIP Media Pack to view the documentation. The AIP documentation is located in the DOCS folder.

Preparing Your UNIX Machine

1. Copy the following ZIP files to the UNIX machine that will house the server-side RPAS, Oracle, and Java files.
   a. AIP-rpas-installer.zip - This file contains the AIP Installer which is an installation wizard that installs the following AIP components:

- AIP RPAS batch components (binaries, libraries, XML files, shell scripts)
- AIP RPAS Domain configuration and sample hierarchy data
- RMS-AIP Integration transformation files (shell scripts, schema files)

  It also provides the ability to define the AIP domain path and create the AIP domain.

b. AIP-online-appserver -installer.zip - This ZIP file contains the AIP 13.2 Online EAR file and binary license file for AIP Oracle. Inside this file is the AIP-online-integration.zip, which contains the AIP 13.2 Online integration files to exchange information between AIP Oracle, RPAS, and RMS (or an external system).

c. AIP-online-dbserver -installer.zip - This ZIP file contains the AIP 13.2 Online Oracle schema database files.

4

Installing the AIP Oracle Database Server Components

Creating a UNIX User Account for Oracle and Retek

Perform the following procedure to create the necessary UNIX user accounts:

1. Create the following UNIX group:
   - dba

   This account owns the Oracle RDBMS
2. Create the following UNIX users, using ksh as the default shell:
   - oracle - dba group
   - retek - dev group

   Note: The oracle account is used to create the Oracle 10g database. The retek account is the owner of the AIP Oracle files that reside on the UNIX server.

Creating a Staging Directory for AIP Oracle Database Files

Perform the following procedure to create the staging directory for your AIP Oracle database server files:

1. Log on to the UNIX server as the newly created retek user and determine where the AIP Oracle database files will be installed. There should be a minimum of 1MB disk space available for the database installation files.
2. Copy the AIP-online-dbserver-installer.zip file from the CDROM directory to the newly created staging directory.
3. Change directories (cd) to the staging directory and extract the zip file. This location is referred to as <DBINSTALL_DIR>.

Creating the Oracle 11g Database

If Oracle 11g is already installed then skip this section. Perform the following procedure to create the Oracle 11g database:

1. Install Oracle 11g Release 1 (version 11.1.0.7.0) with the Oracle UNIX account. Oracle 11g can be installled either in clustered topology or as standalone database..
2. Create a 11g database. Again this can be done either as Oracle Real Application Clusters (RAC) database or as single instance database.
   - When set up as clustered database, the tnsnames.ora should include all the database connection details.
   - Refer to Appendix A, "Appendix: Sample Database Scripts" in this document for sample init.ora files
   - If these scripts are not used as a guide, a system tablespace of 500MB is required for each installation of the AIP Oracle schema.
3. Create the retek_data tablespace and the retek_index tablespace.

   Refer to Appendix A, "Appendix: Sample Database Scripts" in this document for sample tablespace creation script. The size of these tablespaces vary from client to client. For the initial installation, minimum tablespaces of 500MB are recommended.

Creating AIP Oracle Schema Owner

A script called create_user.sql in <DBINSTALL_DIR>/AIPOnlineDBServer132/aip/utility can be used to create the schema owner. This script prompts you for schema owner name, password, and a temporary tablespace. This script should be run as sys.

1. Create the Oracle db user to be used for the AIP Oracle application.

   Log on to sqlplus as the user "sys" and enter the following commands, replacing the text brackets < > with appropriate names.

   ```
   SQL> create user <AIP Oracle Schema Owner> identified by
   <password> default tablespace retek_data temporary tablespace
   <temporary tablespace name>;
   ```

2. Log on to sqlplus as the user "sys" and grant the Oracle user <AIP Oracle Schema Owner>, which serves as the owner of the database objects, the following permissions:

   ```
   SQL> grant connect, resource, create view to <AIP Oracle
   Schema Owner>;

   SQL> alter user <AIP Oracle Schema Owner> quota unlimited on
   retek_data;

   SQL> alter user <AIP Oracle Schema Owner> quota unlimited on
   retek_index;
   ```

Preparing Your Server for Installation

> **Note:** If installing a patch, back up the existing database schema before continuing.

Before you run the AIP Oracle Database Schema Installer, make sure you have performed the following:

- Set the ORACLE_HOME and ORACLE_SID environment variables with the values for your Oracle RDBMS installation. The oraenv script can be used for this.
- Set the NLS_LANG variable for your locale.

Example:

```
NLS_LANG=AMERICAN_AMERICA.UTF8; export NLS_LANG
```

The JAVA_HOME variables are set by the installer based on the ORACLE_HOME that you have defined. In the event that it doesn't, ensure that your JAVA_HOME is set to 1.6 or above.

In order to override the JAVA_HOME set by the installer to an alternate JAVA_HOME - set the following environment variable prior to running the installer: ORACLE_ALT_JAVA_HOME. This is required if you are installing to Oracle 10g (10.2.0.4) as the installer requires JRE 1.5 or greater, but the JRE available under ORACLE_HOME in 10g is 1.4.2.

If you are going to run the Installer in GUI mode using an X server, which is the recommended installation method, you need to have the XTEST extension enabled. This setting is not always enabled by default in your X server. Verify the extension is enabled.

For example use following command to enable DISPLAY in Exceed:

```
export DISPLAY=<ipaddress>:0
where ipaddress is machine rendering the graphics
```

Running the AIP Oracle Database Schema Installer

Perform the following procedure to use the AIP Oracle Database Schema Installer. Regardless of the RIB version being used, the AIP Oracle Database Schema installation process is identical. Depending on system resources, a typical installation takes anywhere from 2 minutes to 30 minutes.

1. Change directories (cd) to the <DBINSTALL_DIR>/AIPOnlineDBServer132 directory.
2. Run the following install.sh script to start the Installer.

   ```
   ./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 (GUI) to the Installer appears. If you are running in console mode through a terminal emulator, the text interface to the Installer appears.

- To run the Installer in the GUI mode, which is the recommended installation method, adjust the DISPLAY environment variable. For example use following command to adjust DISPLAY in Exceed:

  ```
  export DISPLAY=<ipaddress>:0
  ```

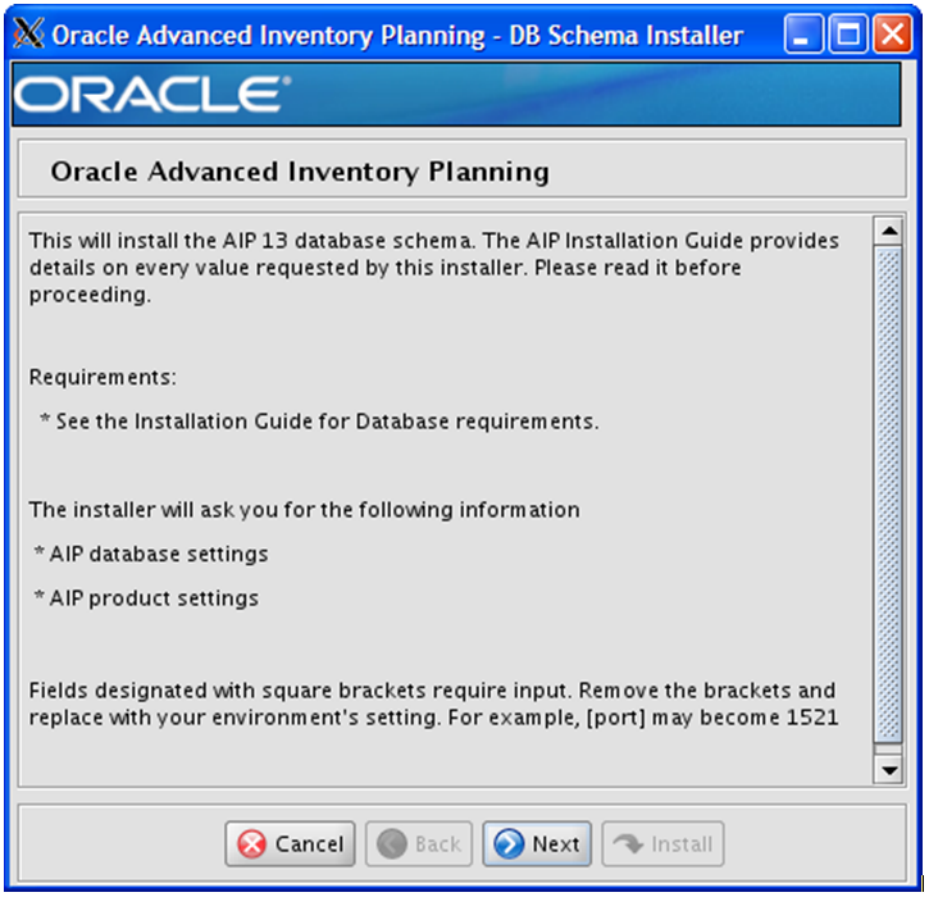
- In both cases, the requested information is identical. In the GUI, you may be shown a checkbox to signal whether you want a component installed; in text mode, you are prompted for a response of "true" or "false".

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

Password fields appear masked, but the previous and default values appear in plain text when running in the text mode.

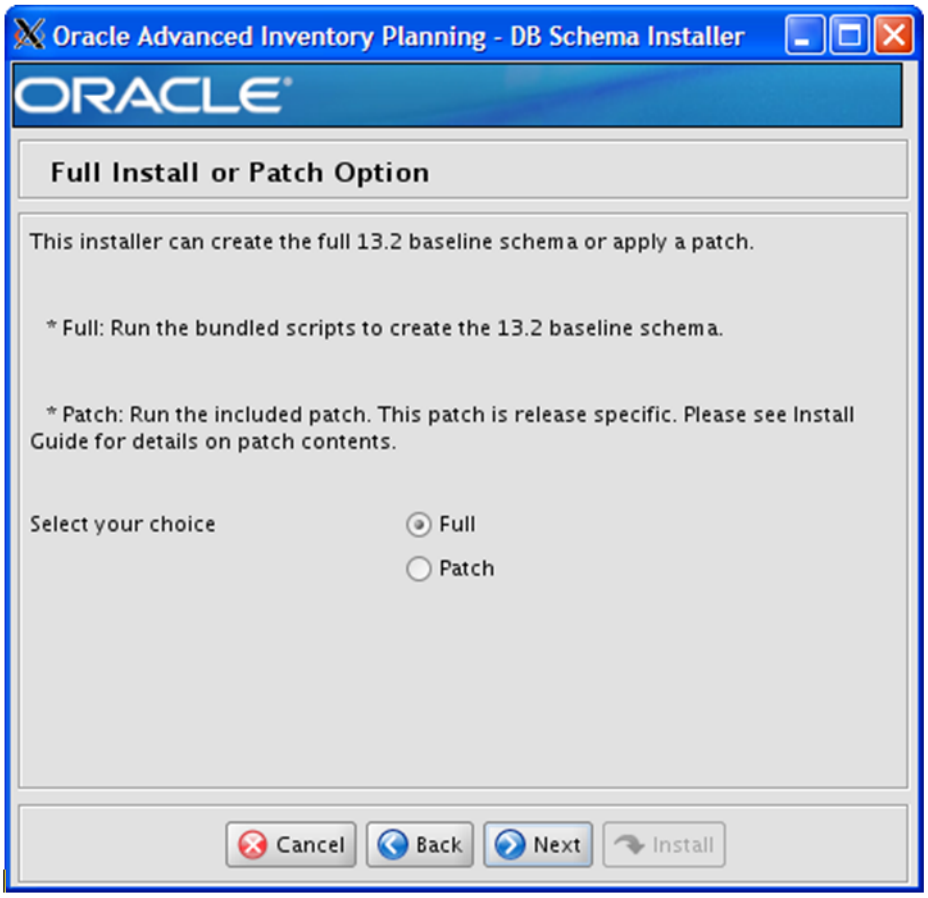
The Oracle Advanced Inventory Planning - DB Schema Installer screen appears and displays the components that are installed during installation process, as well as the required components.

Figure 4–1 Oracle Advanced Inventory Planning - DB Schema Installer Screen



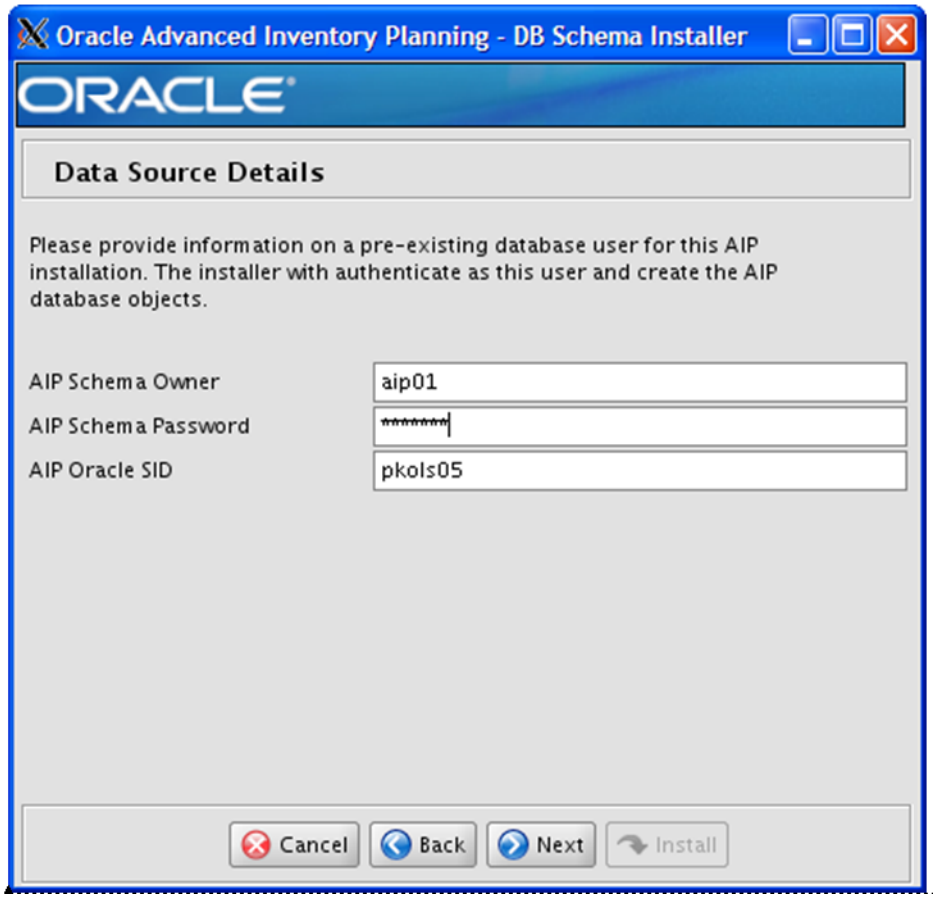
3. Click **Next** to continue.

Figure 4–2 Full Install or Patch Option



4. Choose the Full or Patch option. Click **Next** to continue.

Figure 4–3 Data Source Details Screen

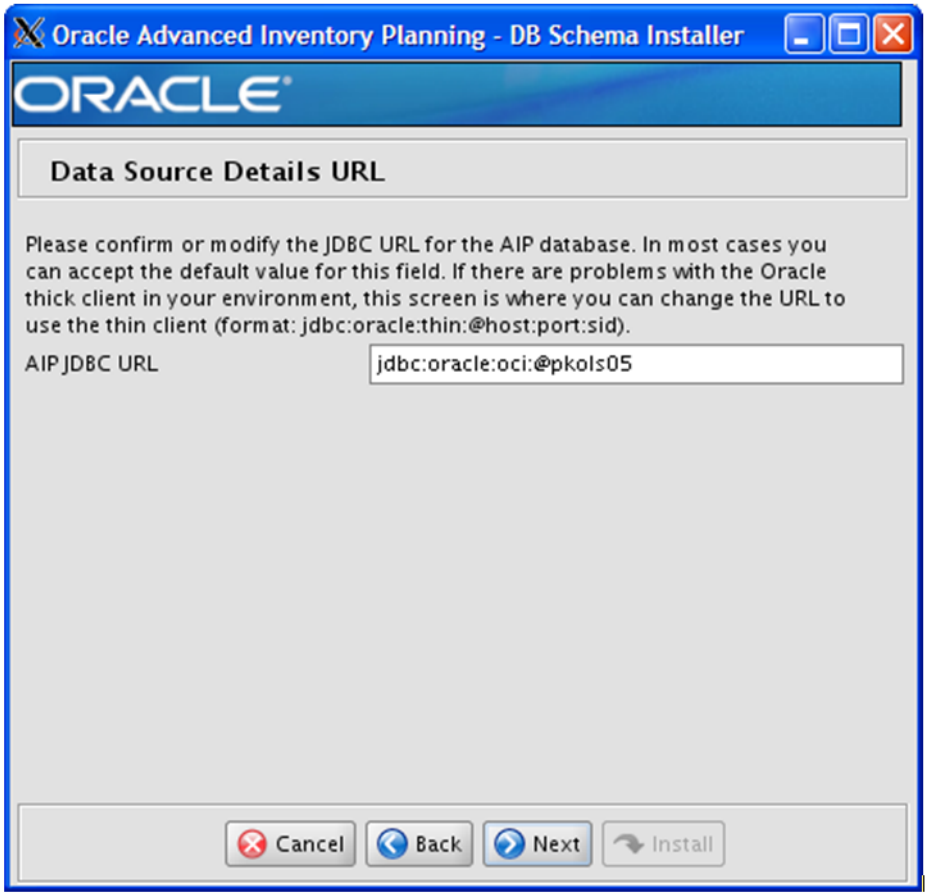


5. Enter the following information and click **Next**:

Field	Description
AIP Schema Owner	Enter the AIP Schema owner's name.
AIP Schema Password	Enter the AIP Schema Owner's password.
AIP Oracle SID	Enter the name of the database where the AIP schema will be installed.

The Data Source Details URL screen appears. The default setting is thick client.

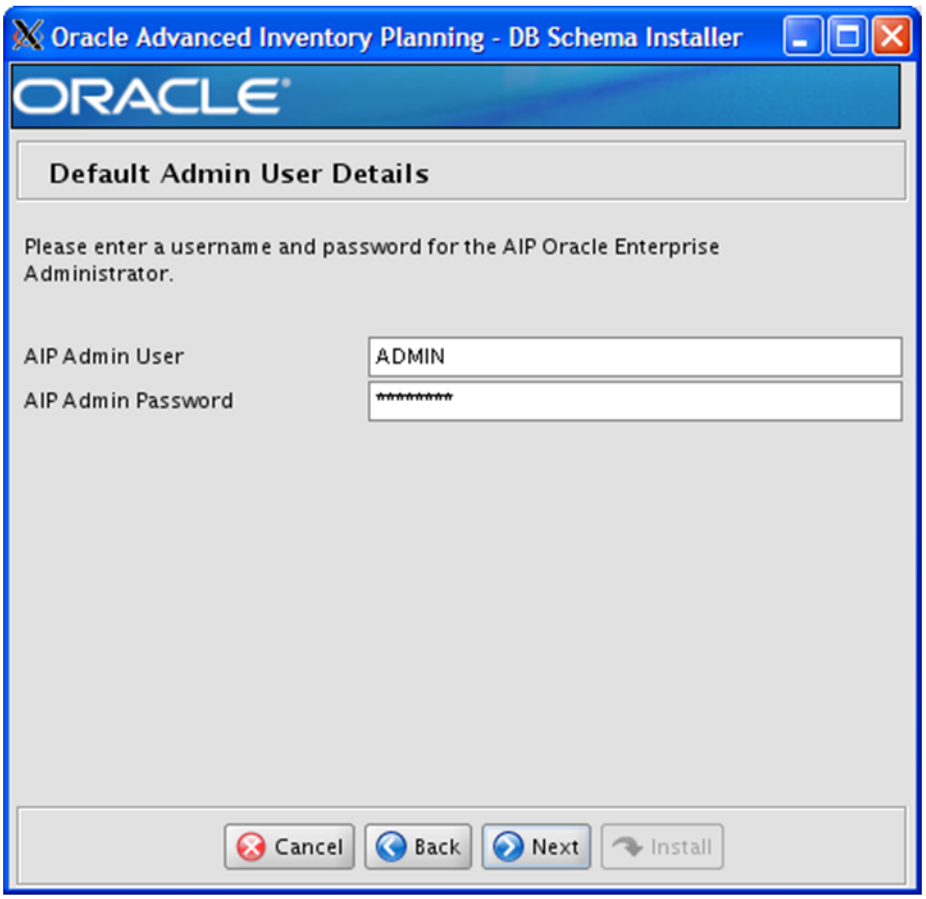
Figure 4–4 Data Source Details URL Screen



6. Enter the AIP JDBC URL and click **Next**. This is the URL that is used by AIP to access the database. The expected format for the field appears on screen.

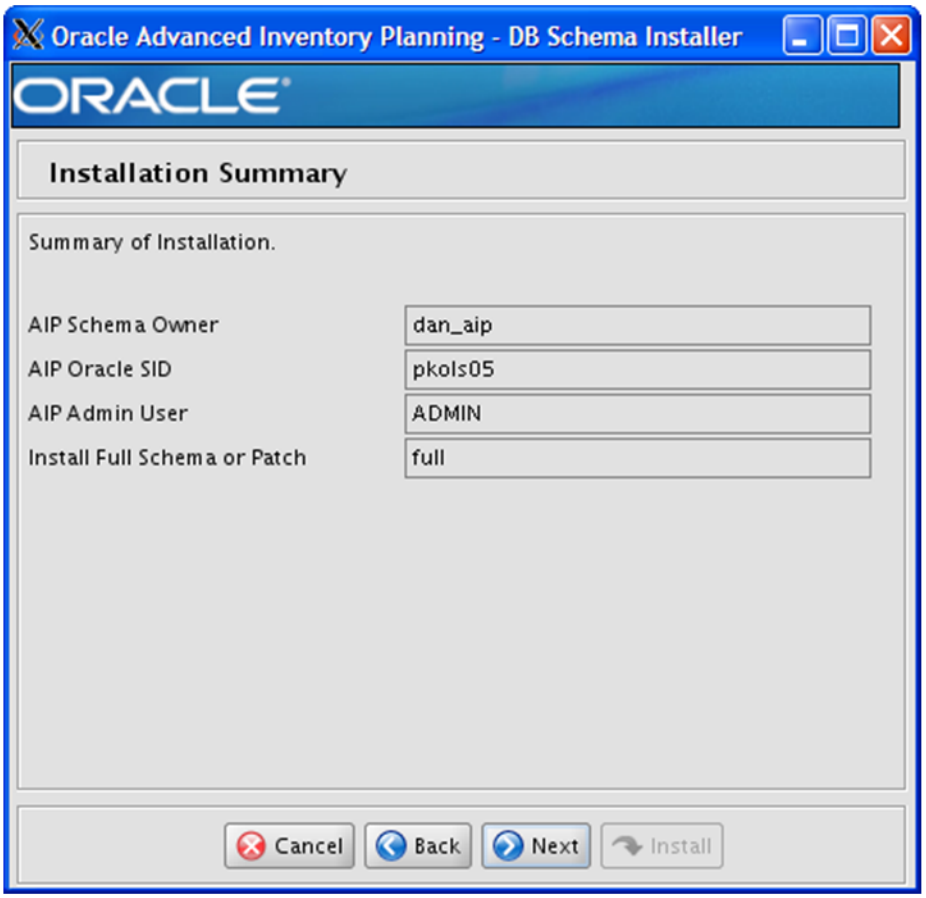
Note: If you are using an HP 64-bit or a Sun 64-bit server, you must specify the AIP JDBC URL to use the thin driver.

Figure 4–5 Default Admin User Details



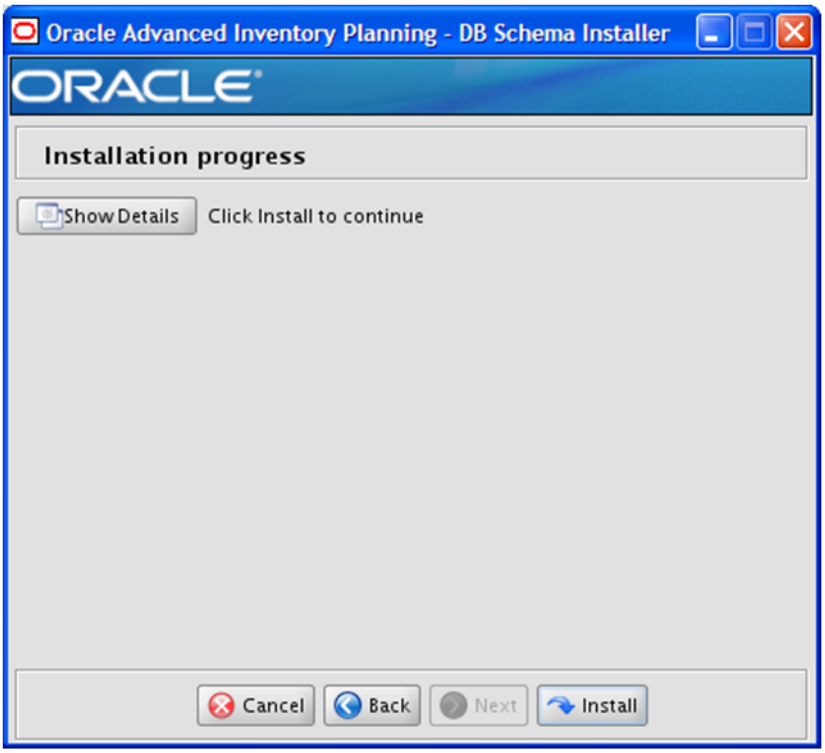
7. Enter the username and password to be used for the AIP Oracle Enterprise Administrator. Click **Next**.

Figure 4–6 Installation Summary Screen



8. Click **Next** to continue.

Figure 4–7 Installation Progress Screen



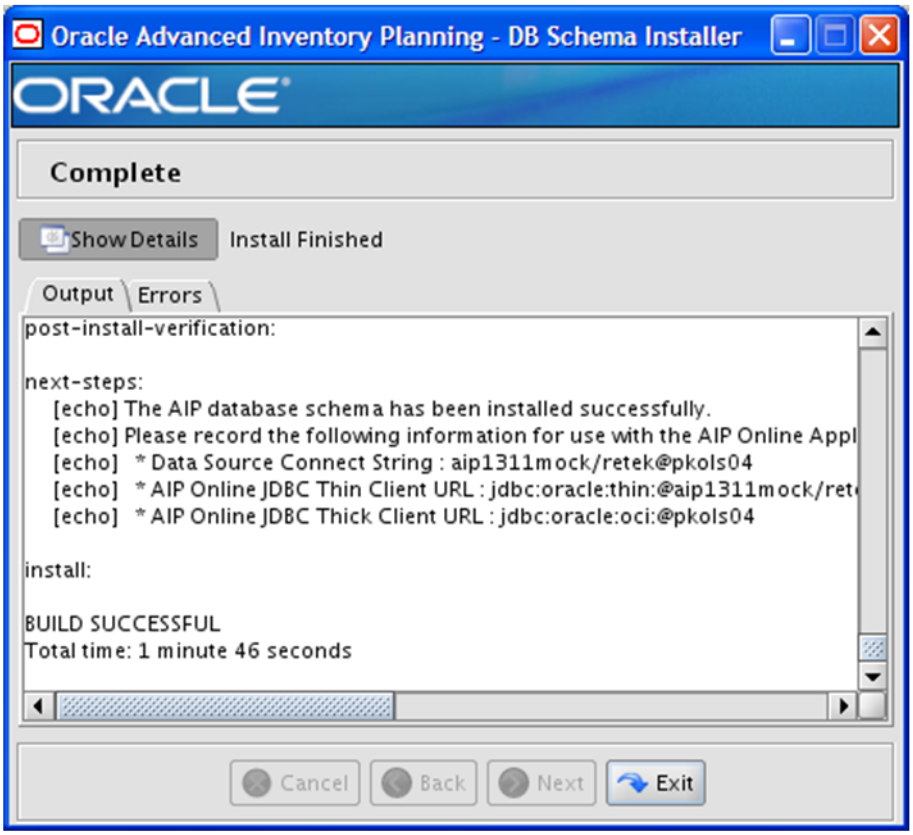
9. Once you are ready to begin the installation, click **Install**.

   This screen displays the progress of the installation routine. Select **Show Details** to view the log output as the installation is performed. If you do not choose to view the details, a graphical representation of the installation steps appears.

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

   When the installation has finished, the Complete screen appears.

Figure 4–8 Complete Screen



10. Click **OK** to close the dialog box.
11. To view the installation details, select **Show Details**. The screen displays two tabs, the Output tab and the Error tab. It is recommended that you review these tabs for any issues that may have occurred during the installation process.

    When the Installer is complete, a log file and a .dbhistory file appear in the installation directory. The log file is named aip-install-dbschema.<timestamp>.log, where <timestamp> is the date and time you ran the Installer. A .dbhistory file is also created, which contains a list of all the SQL scripts that were run by the installer. A .dberrors file is created if any errors were encountered.

    The Installer also generates an ant.install.properties file for future reference and repeat installations. This file contains all inputs you provided in the Installer screens, including passwords. As a security precaution, make sure that the file has restrictive permissions as shown in the following example.

    Example: chmod 600 ant.install.properties
12. Open the installation log file and record the database settings displayed at the end of the Installer log file, aip-install-dbschema.<timestamp>.log. You will need this information when performing the AIP Application Installation.
13. Click **Exit** to close the Installer.

Resolving Errors Encountered During Database Schema Installation

If the database schema installer encounters any errors, it prints to the screen which SQL script it was running when the error occurred. It also writes the path to this script to the .dberrors file. When this happens, you must run that particular script using sqlplus. After you are able to complete execution of the script, delete the .dberrors file and run the Installer again. You can run the installer in silent mode so that you don't have to retype the settings for your environment. Refer to ""Reinstalling in Silent Mode" on page 9-2" of this guide for instructions on silent mode.

Refer to "Troubleshooting" on page 9-3 of this guide for a list of common installation errors.

Subsequent executions of the Installer skips the SQL scripts that have already been executed in previous Installer runs. This is possible because the Installer maintains a .dbhistory file with a listing of the SQL scripts that have been run. If you have dropped the AIPOnline schema and want to start with a clean install, you can delete the .dbhistory file so that the Installer runs through all of the scripts again. It is recommended that you allow the Installer to skip the files that it has already run.

5

Installing AIPOnlineApp on Weblogic 10.3.3

This chapter contains the typical steps for installing the AIP Oracle application to your Oracle Application Server (OAS).

Before proceeding, you must install Oracle Weblogic Server 11g 10.3.3, plus any patches listed **in Chapter 3, "Preparing for Installation" of this document.** AIP Oracle is deployed to WLS managed server instance or cluster within the Oracle Weblogic Server 11g installation. It is assumed that Oracle RDBMS 11g has already been configured and loaded with the appropriate AIP Oracle schema for your installation.

Setting up Weblogic for AIP Oracle

Ensure that the Weblogic admin server and node manager are running for your AIP Oracle installation. Refer to the *Oracle Retail Application Server Administrator's Guide* for details on how to start the admin server and node manager.

Perform the followingprocedure to create a new managed server instance for the AIP Oracle installation. If the application is being installed to a clustered WLS, then create an instance for each node of the server. All such instances should be under the same cluster.

> **Note:** If you are deploying to an existing managed server instance, you can skip this step since your environment is already prepared for installing AIP Oracle.

1. Log in to the administration console which is running your WLS 11g installation.

   Example: http://localhost:7001/console

2. Choose a name for the new managed server instance.

   Example: aip_MS

3. Create this managed server instance as documented in the *Oracle Retail Application Server Administrator's Guide*.

> **Note:** If you do not have SOA installed, make sure the DMS/Oracle JRF deployments/libraries are not targeted to the AIP managed server.

4. Log in the the Weblogic admin console and navigate to the server start options for the AIP managed server that was created.
   a. In the Arguments text box enter:

      -XX:MaxPermSize=512m

   b. Save and activate the changes. Refer to the *Oracle Retail Application Server Administrator's Guide* for details.
5. Start the managed server instance. You can do this through the administration console, or on the command line. See the *Oracle Retail Application Server Administrator's Guide* for more information.
6. Verify that the managed server instance was fully started. In the admin console, the instance should have a green checkmark indicating that it is running. You can also verify that aip_MS java process is running on the command line.

   Sample Syntax:

   ```
   ps -ef | grep aip_MS
   ```

Preparing Your Server for Installation

Before you run the AIP Application Server Installer, make sure you have performed the following:

Log in to the UNIX server as the user who owns the WLS 11g installation. Create a new staging directory for the AIP Oracle application distribution (AIP-online-appserver- installer.zip).

Example: $ORACLE_HOME/aiporacle_staging

This location will be referred to as <INSTALL_DIR> for the remainder of this chapter.

Make sure there is a minimum of 500 MB disk space available for the application installation files.

Copy AIP-online-appserver- installer.zip to <INSTALL_DIR> and extract its contents.

If you are going to run the Installer in GUI mode using an X server, which is the recommended installation method, you need to have the XTEST extension enabled. This setting is not always enabled by default in your X server. Verify the extension is enabled.

Set the ORACLE_HOME and WEBLOGIC_DOMAIN_HOME and JAVA_HOME environment variables. ORACLE_HOME should point to your Oracle Weblogic Server 11g installation. WEBLOGIC_DOMAIN_HOME should point to the directory where your Weblogic domain was installed. JAVA_HOME must point to a valid Java 1.6.18 or later JDK.

Oracle Configuration Manager

The Oracle Retail OCM Installer packaged with this release installs the latest version of OCM.

The following document is available through My Oracle Support (formerly MetaLink). Access My Oracle Support at the following URL:

`https://support.oracle.com`

Oracle Configuration Manager Installer Guide (Doc ID: 1071030.1)

This guide describes the procedures and interface of the Oracle Retail Oracle Configuration Manager Installer that a retailer runs at the beginning of the installation process.

OCM Documentation Link

`http://www.oracle.com/technology/documentation/ocm.html`

Running the AIP Oracle Application Installer

Once you have an managed server instance that is started, you can run the AIP Oracle application installer. This installer will configure and deploy the AIP Oracle application and AIP Oracle Integration files.

1. Extract AIP-online-appserver- installer.zip to <INSTALL_DIR> directory.
2. Change directories (cd) to the <INSTALL_DIR>/AIPOnlineAppServer132 directory.
3. Run the following install.sh script to start the Installer.

   ./install.sh

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

   When the installation is complete, a detailed installation log file is created. This file is named aip132install--app.<timestamp>.log where <timestamp> represents the date and time the installation was performed. This file is located in the <INSTALL_DIR>/AIPOnlineAppServer132 directory.

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

   To run the Installer in the GUI mode, which is the recommended installation method, adjust the DISPLAY environment variable. For example use following command to adjust DISPLAY in Exceed:

   export DISPLAY=<ipaddress>:0

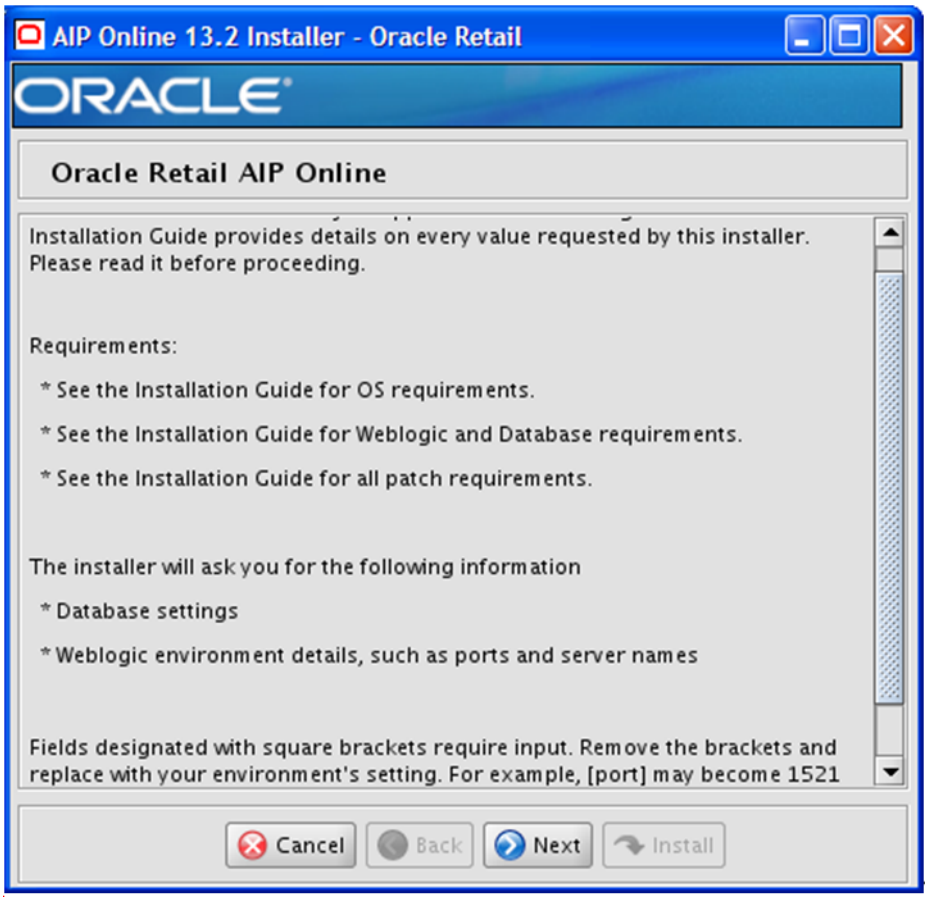
   In both cases, the requested information is identical. In the GUI, you may be shown a checkbox to signal whether you want a component installed; in text mode, you will be prompted for a response of "true" or "false".

   Note: In text mode, the default value will appear in square brackets []. To use the default value and continue, simply hit the Enter key. If you wish 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.

   Password fields will appear masked, but the previous and default values will appear in plain text when running in the text mode.

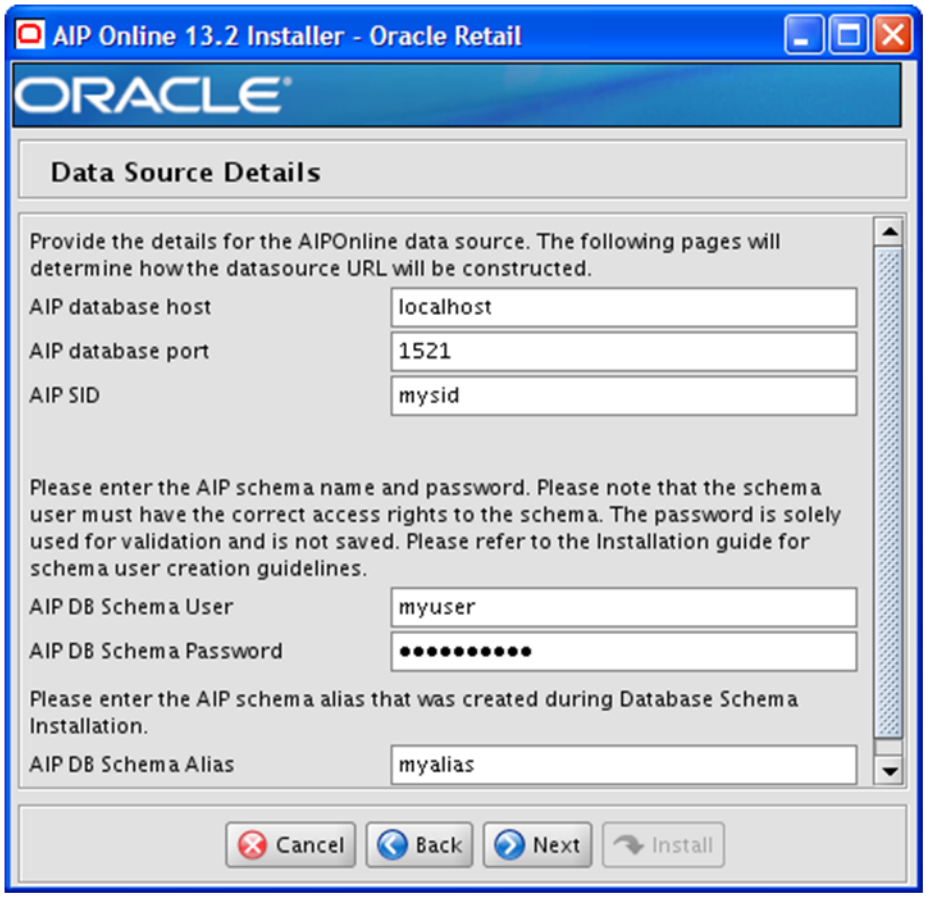
The AIP Oracle Installer screen appears and displays the components that will be installed during installation process, as well as the required components.

Figure 5–1 AIP Oracle Installer Screen



4. Click **Next** to continue. The OCM install screens appear. See "Oracle Configuration Manager" on page 5-2 for more details about installing OCM.

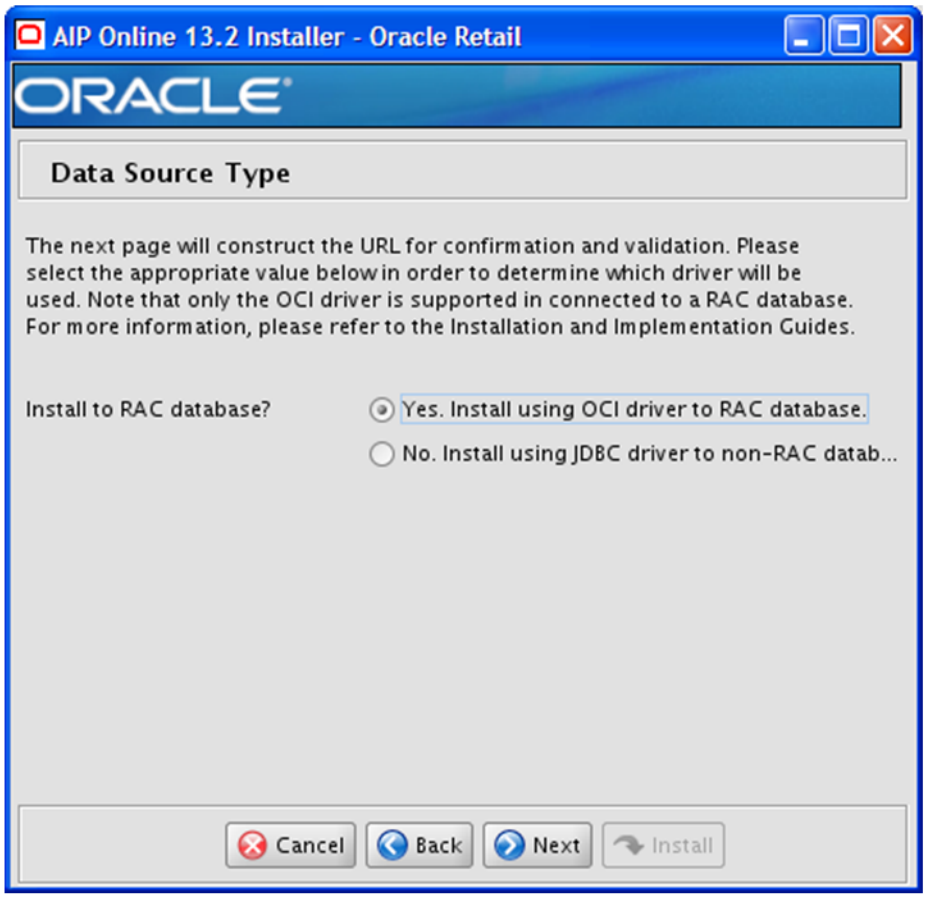
Figure 5–2 Data Source Details Screen



5. Enter the following information and click **Next**.

Field	Description
AIP database host	Enter the AIP database host name.
AIP database port	Enter the port number on which the database listens.
AIP SID	Enter the AIP Oracle database SID.
AIP DB Schema User	Enter the AIP database schema user name.
AIP DB Schema Password	Enter the AIP database schema password.
AIP DB Schema Alias	Enter the AIP database schema alias. This is used to securely store the username/password in a wallet file.

Figure 5–3 Data Source Type Screen



6. If you have an RAC database, select **Yes**. If you have a non-RAC database, select **No**.

   One of the following Data Source Confirmation screens appears, either:

   - Figure 5–4, "Example of Data Source Confirmation Screen for RAC database"
   - Figure 5–5, "Example of Data Source Confirmation Screen for non-RAC database"

Figure 5–4 Example of Data Source Confirmation Screen for RAC database

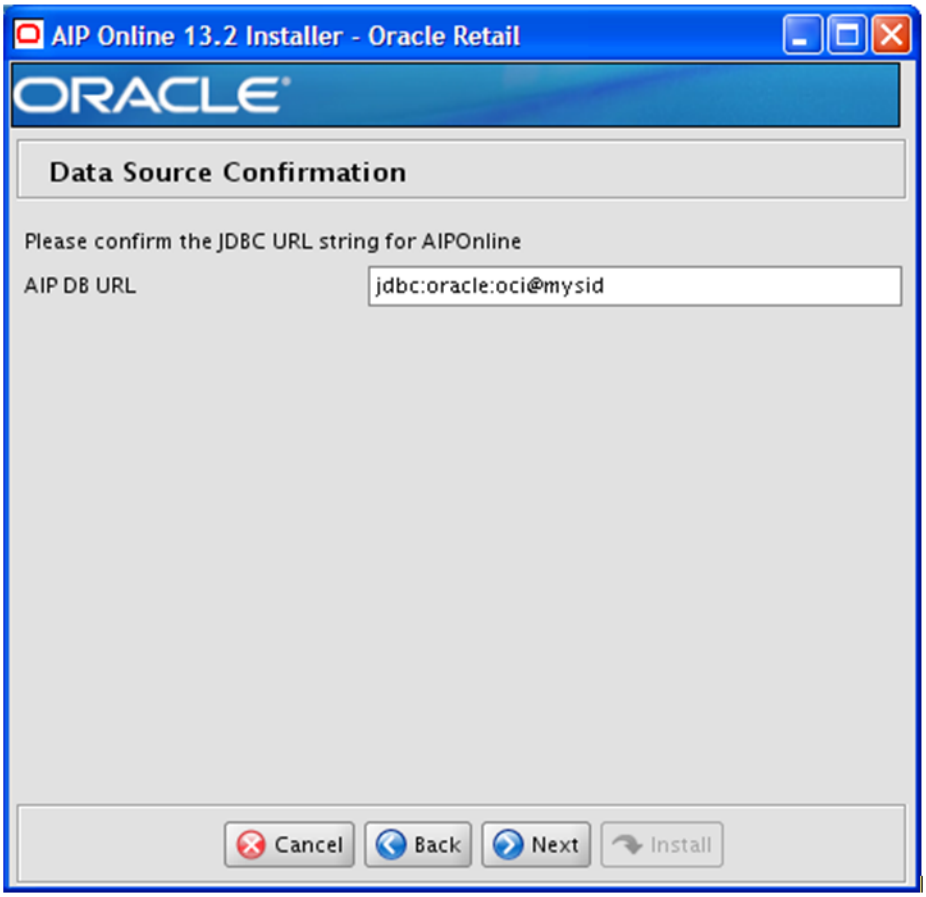
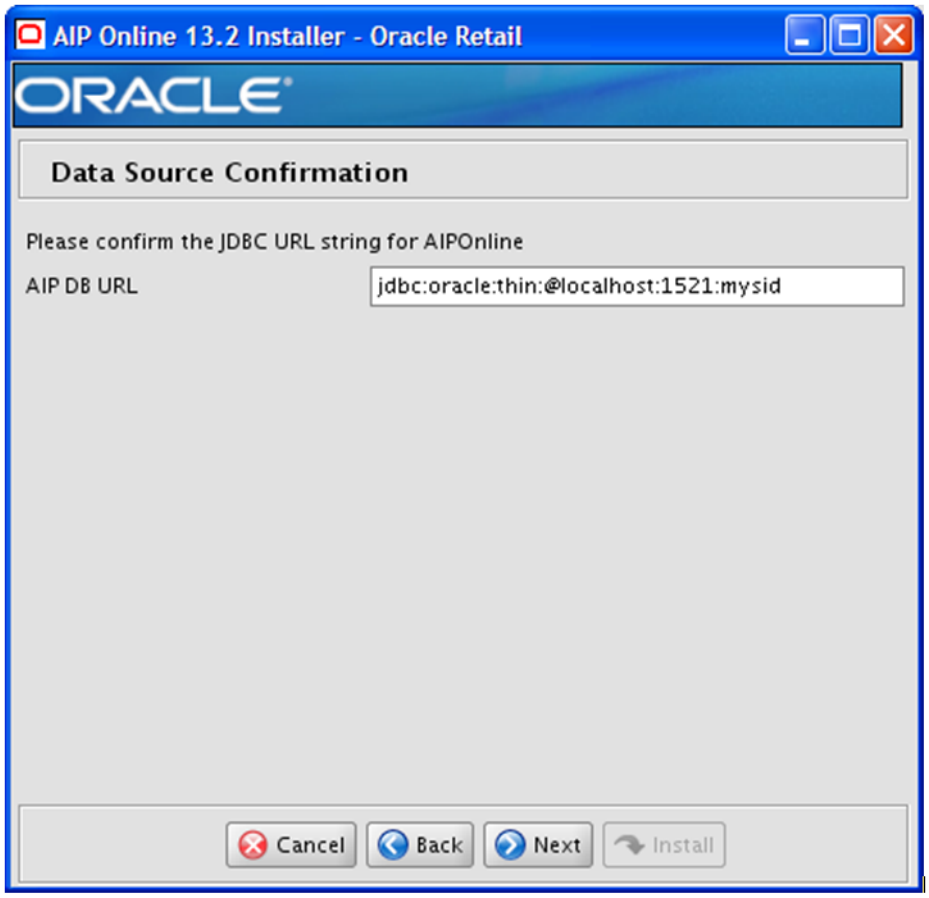


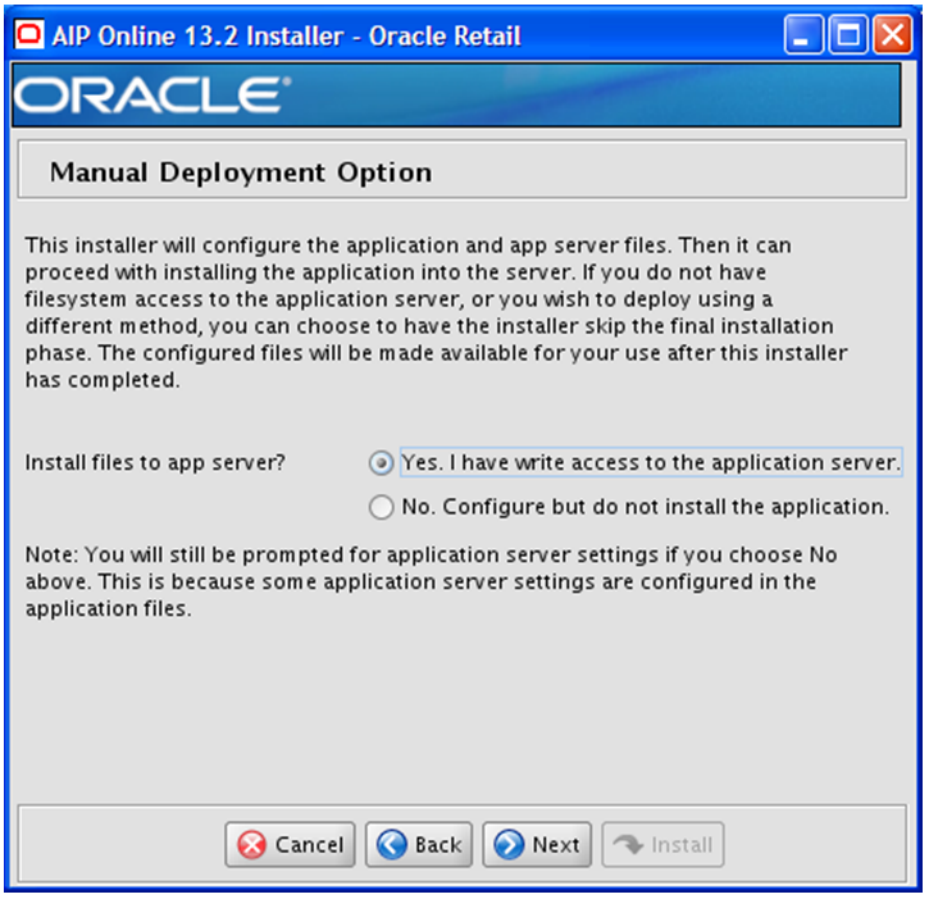
Figure 5–5 Example of Data Source Confirmation Screen for non-RAC database



The AIP JDBC URL string that appears is defined by the information you have entered. This URL is used by the AIP Oracle application to access the AIP database schema.

7. Verify the AIP JDBC URL string is correct and click **Next**.

Figure 5–6 Manual Deployment Option Screen



8. Select the appropriate option and click **Next**.

   If you have write access to the application server, select **Yes**. The Installer installs the necessary files to the ORACLE_HOME and WEBLOGIC_DOMAIN_HOME folder.

   If you are running the AIP Oracle Installer as user who does not have write permissions to the filesystem under the ORACLE_HOME and WEBLOGIC_DOMAIN_HOME, select **No**. The Installer performs all the necessary configuration changes within the staging directory, but it does not install any files to the ORACLE_HOME and WEBLOGIC_DOMAIN_HOME. If you select **No**, you need to manually complete the installation process. Even if you select **No**, you still need to complete the subsequent Installer screens.

Figure 5–7 Example of Application Deployment Details: Weblogic Administration Screen

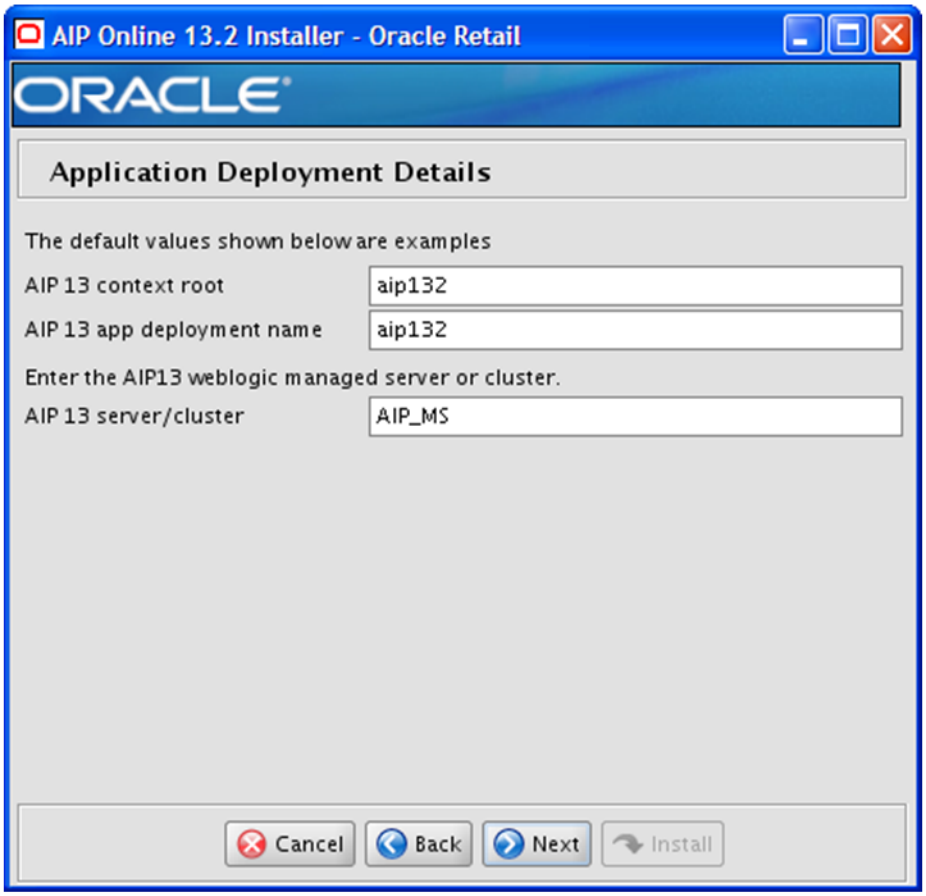
9. Enter the following information and click **Next**.

Field	Description
hostname	Hostname of the server where AIP is installed

Weblogic admin port	Enter the Weblogic admin port found in $WEBLOGIC_DOMAIN_HOME/config/config.xml file.
	Example of Port Definitions in config.xml File:
	`<server>`
	`<name>AdminServer</name>`
	`<listen-port>7001</listen-port>`
	`<listen-address></listen-address>`
	`</server>`

Weblogic admin user	Enter the Weblogic admin user name.
Weblogic admin password	Enter the Weblogic admin user password.
Weblogic admin alias	This alias is used by the application to access usernames and passwords in the wallet file: `$WEBLOGIC_DOMAIN_HOME/retail/<aip app name>/config/cwallet.sso`.

Figure 5–8 Application Deployment Details: Application Deployment Details Screen



10. Enter the following information and click **Next**:

Field	Description
AIP 13 context Root	Enter the context root that the application will use. **Example:** `http://myhost:7501/aip132` where **aip132** represents the context root required for this field.
AIP 13 app deployment name	Enter the name to be used by the application server to identify the AIP Oracle application.
AIP 13 server/cluster	The managed server or cluster to which AIP deploys.

Figure 5–9 AIP Oracle Installation Directory Screen

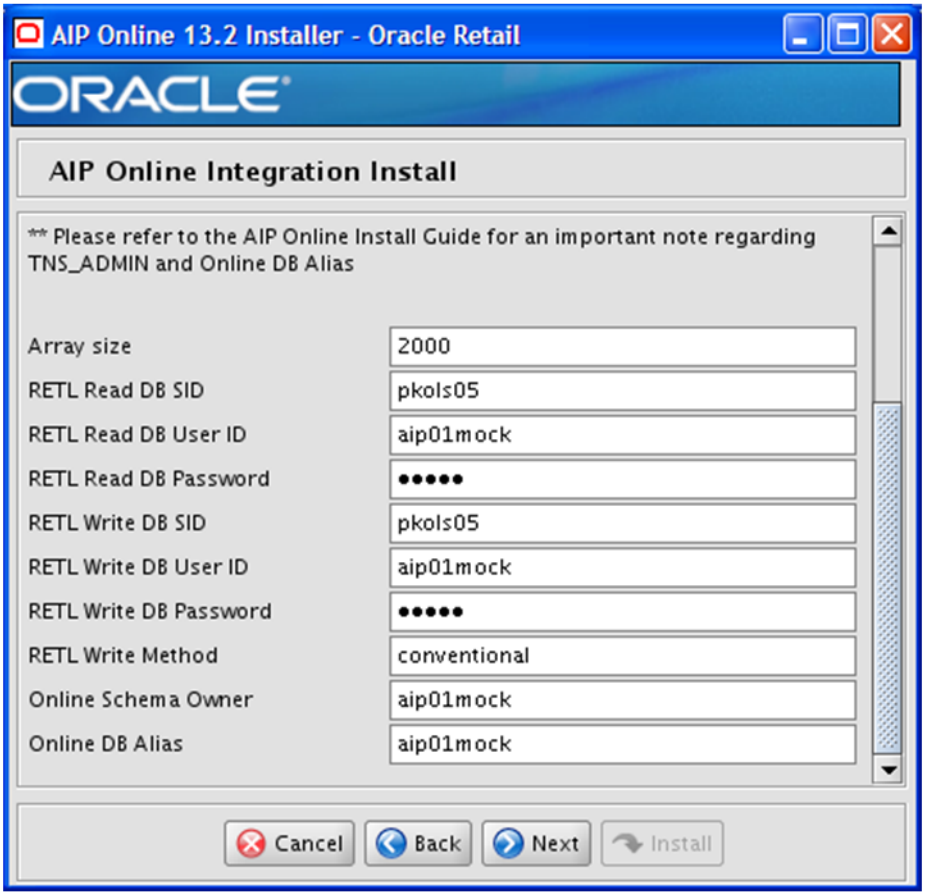
11. Enter the directory where AIP Oracle will be installed and click **Next**.

Figure 5–10 AIP Oracle Integration Screen

12. Enter the directory where AIP Oracle Integration components will be installed and click **Next**. The AIP Oracle Integration Home field defaults to AIPONLINE_DIR.

    You may choose to install the integration components to another location on the same server at this point, or you may choose to move the installed files once the installation process is complete.

Figure 5–11 Example of AIP Integration Install Screen



Note: If there is an existing directory in the location specified, the installer will make a backup of the existing directory, appending the current timestamp to the name of the directory. This backup is non-essential to functionality, and may be moved to another location for archival or space management purposes.

The RETL interface process, which runs from a UNIX-based platform, is designed to be fully automated once configured. In addition to the environment variables display on the screen, config.xml is required when invoking the RETL scripts. This file should be located in the root integration directory on the UNIX server where the AIP Oracle application is installed.

This configuration file (config.xml) contains the database connection information required by RETL when performing import and export operations. Refer to the Oracle Retail Extract, Transform, and Load (RETL) documentation for detailed descriptions of element definitions.

There are two operator sections that need to be completed:

- **oraread** -The oraread section defines the properties required for all export operations on the database.
- **orawrite** - The orawrite section defines these for all import operations.

Though both sections contain similar attributes, it is imperative that each section is defined as needed for the specific Oracle database installation. This information is also dependent on the following requirements

- All databases can be connected to using a properly defined tnsnames file.
- All databases are reachable by SQLPlus.

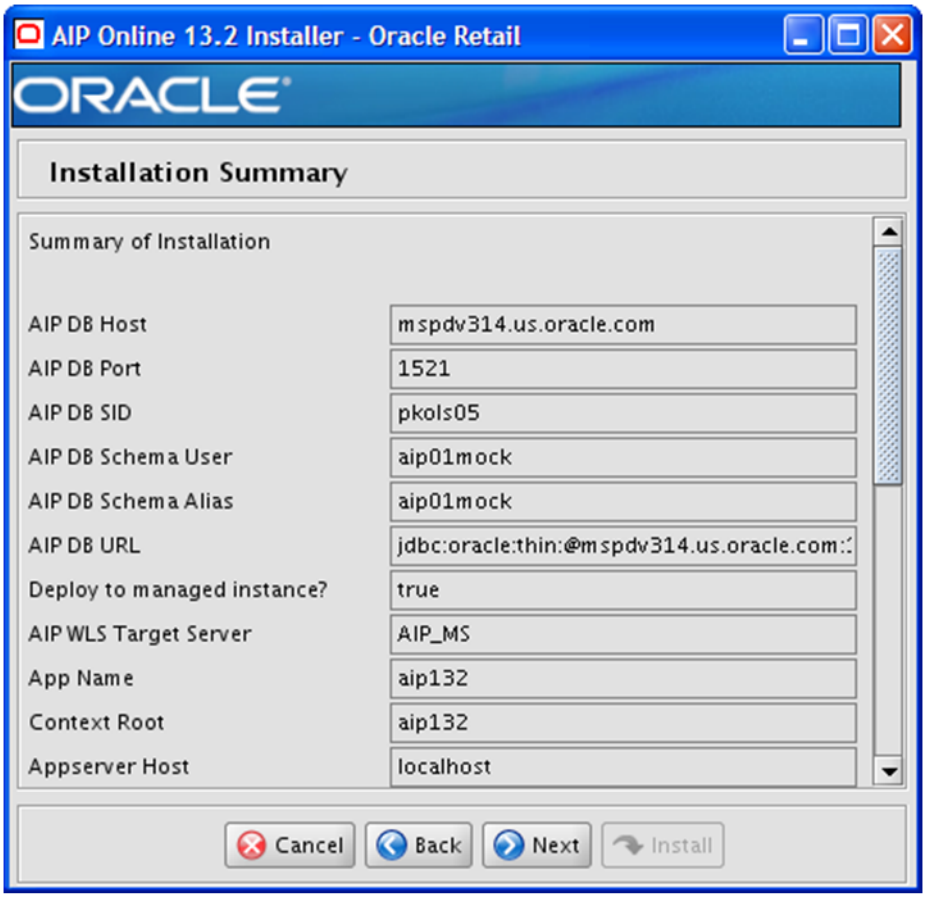
13. Enter the following information in the AIP Integration Install screen and click **Next** to continue.

    - Array Size
    - RETL Read DB SID
    - RETL Read DB User ID
    - RETL Read DB Password
    - RETL Write DB SID
    - RETL Write DB User ID
    - RETL Write DB Password
    - RETL Write Method
    - Integration Online Schema Owner
    - Integration Online DB Alias

    Note: For the field, Integration Online DB Alias, provide the Oracle Wallet Alias for the schema that you are connecting to.

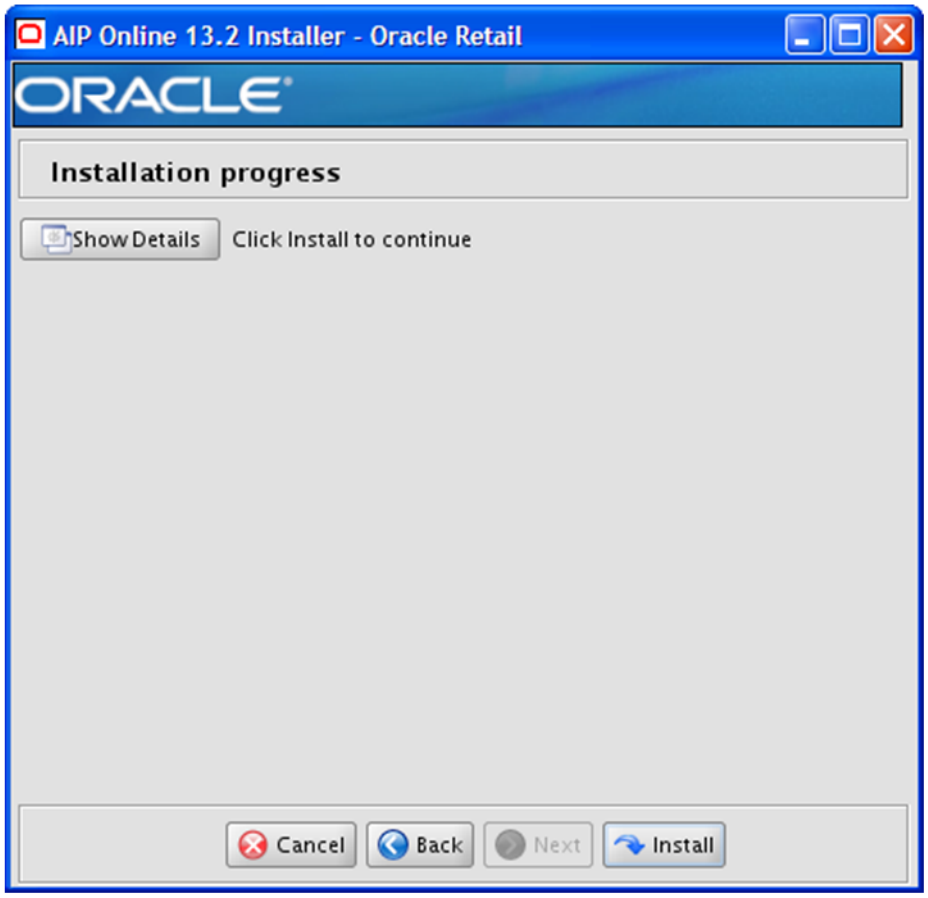
    Refer to the *Oracle Retail Advanced Inventory Planning Online Implementation Guide* as well as the *Oracle Retail Extract, Transform, and Load (RETL) 13.1 Installation Guide* for further details on the AIP Integration fields.

Figure 5–12 Installation Summary Screen



14. Verify the values on the Installation Summary screen and then click **Next**.

Figure 5–13 Installation Progress Screen



15. Once you are ready to begin installation, click **Install**.

    This screen displays the progress of the installation routine. Select Show Details to view the log output as the installation is performed. If you do not select to view the details, a graphical representation of the installation steps appears.

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

    When the installation has finished, the Complete screen appears.

16. Click **OK** to close the Finished dialog box.

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

    When the installation is complete, a detailed installation log file is created. This file is named aip13install-app.<timestamp>.log where <timestamp> represents the date and time the installation was performed. This file is located in the <INSTALL_DIR>/AIPOnlineAppServer132 directory.

Resolving Errors Encountered During Application Installation

If the application installer encounters any errors, it will halt execution immediately. You can run the installer in silent mode so that you don't have to retype the settings for your environment. Refer to "Reinstalling in Silent Mode" on page 9-2 of this guide for instructions on silent mode.

Refer to the "Troubleshooting" on page 9-3 section of this guide for a list of common installation errors.

Since the application installation is a full reinstall every time, any previous partial installs will be overwritten by the successful installation.

AIP Oracle Integration Directory (Optional)

The AIP Oracle Installer places the AIP Oracle Integration directory, AIPONLINE_DIR, with the rest of the AIP Oracle application files.

The integration directory can be located in a different location if you cannot run them from under the AIPONLINE_DIR. To install the integration files in a different location, copy the entire $AIPONLINE_DIR/AIPOnlineIntegration132 directory to the appropriate destination. Refer to Chapter 6, "Installing the AIP Integration Components" of this guide for more information.

Manual Deployment Tasks

Note: Skip this section if you chose the default option of allowing the installer to complete the installation to the application server. Refer to Chapter 6, "Installing the AIP Integration Components" of this document for more information.

The Installer includes the option to configure the application locally and skip deployment to the application server. If this option is chosen, the installer will make the configured application files available under <INSTALL_DIR>/AIPOnlineAppServer132/aip/configured-output/.

If you chose this installer option, you can complete the installation by following these steps:

1. Inspect and then overlay files from `<INSTALL_DIR>/AIPOnlineAppServer132/aip/configured-output/` into your application server installation.
2. Deploy the AIPOnlineApp EAR file using the WLS Admin Console Web interface.

   The configured EAR file is located at:

   `<INSTALL_DIR>/AIPOnlineAppServer132/aip/configured-output/AIPOnlineApp.ear`.

   When deploying the EAR file, you should provide the same application name you entered in the Installer. This value is stored in the <INSTALL_AIP>/AIPOnlineAppServer132/ant.install.properties file by the Installer for later reference.

3. Deploy the AIPOnlineApp-help EAR file using the WLS Admin Console Web interface.

   The configured EAR file is located at:

   ```
   <INSTALL_
   DIR>/AIPOnlineAppServer132/aip/configured-output/AIPOnlineApp
   -help.ear.
   ```

Testing the AIP Oracle Application

When you have successfully finished the **post-installation steps** noted below you should have a working AIP Oracle application installation. To launch the application client, open a Web browser and go to the client URL. You can find the URL in the log file that was created by the Installer.

Example: `http://myhost:7501/aip132/`

Configuring Languages (Russian and German)

Clients using Russian and German languages are required to edit the Java Font Configuration file on the client machine. Follow these instructions to add the Cyrillic character set:

1. Check the Java installation path from Control Panel->Java->Java->View
2. Go to the Java path\lib (**C:\Program Files\Java\jre6\lib**)
3. Make a copy of fontconfig.properties.src and rename this to fontconfig.properties
4. On fontconfig.properties , modify the line:

```
sequence.allfonts=alphabetic/default,dingbats,symbol
```

to

```
sequence.allfonts=cyrillic,alphabetic/default,dingbats,symbol
```

Creating the AIP Oracle Enterprise

This section provides the procedures to create an AIP Oracle enterprise and the initial administrator for the newly created enterprise.

1. Select the link displayed in the AIP Oracle Setup to load the AIP Oracle application System Administration.

   In the event that the page has timed out or been closed, enter the application URL in the Web browser as shown in the following example.

   Example: `http://<server>:<port>/<context root>/phantasm`

2. For the User Name field and Password field, enter the user name and password that were set for the "Default Admin User Details" on page 4-8. The System Administration page appears.

   Note: A Warning - Security window may appear asking if the signed applet that is to run the Enterprise Administration window can be trusted. If this window appears, click Yes.

3. Click **Enterprises** in the Enterprise Data section. The Enterprise Administration window appears.

4. Click **New**.
5. On the Company Info tab, enter the following information.

Field	Description	Example
Company name	Enter your company name.	My Company
Enterprise code	aiponline	aiponline
Contact Email	Enter the AIP Administrator's e-mail address	admin@server.com

Note: The Industry and Company type fields are not required.

6. On the initial Admin tab, enter the following information.

Field	Description	Example
First Name	Enter the AIP Administrator's first name.	John
Last Name	Enter the AIP Administrator's last name.	Doe
Username	Enter the AIP Administrator's user name to be used when logging into AIP Oracle.	doejohn
New Password	Enter the AIP Administrator's AIP Oracle password. When selecting a password, make sure it meets the following requirements: ■ Minimum 6 characters; maximum 128 characters ■ At least 5 different characters ■ Must not be simple pattern of characters (such as, ABCDEF or ABCXYZ) ■ Must not be easily derivable from user name or full name ■ Must not be easily derivable from previous password ■ Must not be derivable from a dictionary entry ■ Case sensitive	aip132online
Retype New Password	Retype your password. Remember, the password is case sensitive, so you must type it exactly as it was entered in the Password field.	aip132online

7. Navigate to the Services tab. Two services are displayed, Core Administration and AIP Oracle. Perform the following steps:

Step	Direction
a.	Click the **Enabled** cell of Core Administration.
b.	Double-click the **User Limi**t cell of Core Administration and enter an integer value in the cell. This integer value represents the number of users that can be created per application. If the exact number of users is not known, enter a large number such as 100. This number can be changed later by the system admin user.
c.	Press the Enter key to accept your input.
d.	Click the **Enabled** cell of AIP Oracle.
e.	Double-click the **User Limit** cell of AIP Oracle and enter an integer value in the cell. This integer value represents the number of users that can be created per application. If an exact number of users is not known, enter a large number such as 100. This number can be changed at a later time by the system admin user.
f.	Press the Enter key to accept your input.

8. On the Enterprise Administration window, click **Save**. Close the Enterprise Administration window when the save is complete.
9. On the System Administrator page, click the **LOG OUT** link located at the top right of the page.

Creating AIP Oracle Users

This section provides the procedures to create AIP Oracle users. New users should be created using the administrator account created in the previous step.

1. Load the application URL in a browser to access the AIP Oracle application login page.

   Example: http://server:9080/aiponline/index.jsp
2. Input the administrator username and password, and click LOG IN. The Application page appears.
3. Click the Core Administration link. The Administration page appears.
4. Click the **Users** button in the Application Setup section. The Core Administration: User Administration window appears.
5. Select the Users tab and click **New**. A user information form is displayed.
6. In the Details tab, enter all relevant user information in the form.

Field	Example
First Name	John
Last Name	Doe
Email	jdoe@company.com
Username	doejohn
New Password	aip132online
Retype New Password	aip132online
Password Status	Normal

7. Click the Permissions tab. A user permissions form appears.
8. Select the Enabled cell of the AIP Oracle service. Available Types selection box is populated with data.
9. Select **All AIP Permissions** from the **Available Types** selection box. Click **>** to move this permission type to the Selected Types box, and then click **Save**.
10. Repeat steps 5 through 9 until you have added the necessary user accounts.
11. When you have added all the necessary user accounts, close the Core Administration: User Administration window.
12. Click the **LOG OUT** link in the Administration page to exit the application.

6

Installing the AIP Integration Components

In order to exchange information between AIP Online, RPAS, and RMS (or an external system), the interface portion of the AIP Online suite must be installed, which consists of the following steps:

1. Installing RETL (Retail Extract Transform and Load)
2. Extracting the AIP integration/database files
3. Configuring the environment

Installing RETL

Refer to the *Oracle Retail Extract Transform and Load (RETL) Programmer's Guide* for detailed installation instructions on this product. Following the successful installation of RETL, test the application to verify the environment was set up properly and the RETL binary was installed correctly.

1. log in to the UNIX server as the "rfx" user.
2. At the UNIX prompt, enter rfx. A command-line error appears if all environment variables are setup properly, as shown in the following example.

   Example:

   ```
   /u00/retl> rfx
   Error: Flow file argument ('-f') required!
   ```

3. Verify that the RETL binary is installed properly and the database environment variables are correct by executing the "verify_retl" script. This script runs a series of validation steps and displays a confirmation message if the environment is set up correctly. Upon confirmation, the RETL environment is now ready to be configured.

   Example:

   ```
   /u00/retl> verify_retl -doracle
   Checking RETL Environment...found ORACLE environment...passed!
   Checking RETL binary...passed!
   Running samples...passed!

   ------------------------------------------------------------------------
   Congratulations! Your RETL environment and installation passed all tests.
   See the programmer's guide for more information about how to further test your
   database installation (if applicable).

   ------------------------------------------------------------------------
   Exiting...saving output in /tmp/verifyretl-1843208.log
   ```

Note: The database parameter passed with the verify_retl script varies depending on the type of database to which RETL is configured. Refer to the *Oracle Retail Extract Transform and Load (RETL) Programmer's Guide* for the specific parameters permitted in this script.

Extracting AIP Integration Files

The integration files contain the necessary RETL flow and schema files that describe the integration process. In addition to the integration files, several batch shell scripts are required to transfer data between AIP Online, RPAS, and RMS (or an external system). The integration files must be extracted to the same server where RETL is installed. It is recommended that RETL and the integration files reside on the database server.

Both online integration files and batch scripts are configured and installed through the AIP Online Application Server Installer during the Integration steps.

If these files need to be moved to another server after completing the installation process, you need to perform the following:

1. ZIP the contents of the AIP Online Integration directory specified during the Application Server Installer.
2. Move the ZIP file to the desired server.
3. Proceed to "Editing the .profile to Run cron_export.sh and cron_import.sh Scripts" section and perform the necessary tasks.
4. Once the integration files have been installed, you can use the rfx or retek UNIX user account to run the integration/database scripts.

Configuring Your Environment

The AIP Online Application Server Installer configures the following configuration files, which are discussed in the following sections:

File	Description	Section
config.xml	RETL configuration file	"Configuring the config.xml File"
aip_env_online.sh	AIP configuration file	"Editing the aip_env_online.sh to Run cron_export.sh and cron_import.sh Scripts"

Configuring the config.xml File

This configuration file contains the database connection information for RETL for both import and export. Refer to the Oracle Retail Extract, Transform, and Load (RETL) documentation for detailed descriptions of element definitions. Essentially, the 'oraread' section describes the database for the export and 'orawrite' for the import; both would normally be the same. Databases can be local or remote, but if they are remote they must be reachable by normal means (that is, should be an entry in tnsnames.ora and reachable by SQLPlus). The database can be clustered or standalone. Config.xml file is created by AIP installer during installation. Properties jdbcdriver, jdbcdriverstring and jdbcconnectionstring are not configurable. These are for use by

RETL and should not be changed. As indicated by these variables, an OCI (thick) driver is required for connecting to Oracle database. Properties hostname and port used in earlier release are not used anymore in 13.2 Hostname and port information is resolved by OCI driver by using dbname (or SID) through properly configured tnsnames.ora.

The Oracle export "arraysize" needs to be set dynamically in the config.xml file depending on the server's capabilities. The recommended default "arraysize" value is 2000. Setting the value too high can cause an out of memory error. The value can be set up to 10,000 to maximize performance based on server capability.

Editing the aip_env_online.sh to Run cron_export.sh and cron_import.sh Scripts

In order for the cron_export.sh and cron_import.sh to function correctly, the AIPOnline Application Server Installer configures the aip_env_online.sh file with the following environment variable

Environment Variable	Description
ONL_SCHEMA_OWNER	This variable must be set to the owner of AIP online schema.

The following environment variables are also set in aip_env_online.sh:

Environment Variable	Description
INTEGRATION_HOME	This is the path to the integration directory extracted earlier (where the cron_export.sh and cron_import.sh shell scripts reside). Refer to the *Oracle Retail Advanced Inventory Planning Implementation Guide* for information on the parameters to be set.
RETL_MAX_HEAP_SIZE	This parameter is used by the virtual machine. It is set to a default value of 700M. However, it can be changed dynamically to 'xxxM' or 'yG' to limit the memory usage by the virtual machine.
RETL_INIT_HEAP_SIZE	This parameter is used by the virtual machine. It is set to a default value of 200M. However, it can be changed dynamically to 'xxxM' or 'yG' to set the initial memory assigned to RETL.

Note: A batch scheduler should be set up to run cron_export.sh and/or cron_import.sh.

Editing the .profile to Run cron_export.sh and cron_import.sh Scripts

In order for cron_export.sh and cron_import.sh scripts to run correctly, the following variables must be modified in the UNIX user .profile file. Refer to the *Oracle Retail Advanced Inventory Planning Implementation Guide* for further details on how these values are used.

Variable	Description
RFX_HOME	This variable points to the RETL installation home.
RFX_TMP	This variable points to the tmp directory under RFX_HOME.
ORACLE_HOME	This variable points to the Oracle database home.

Variable	Description
JAVA_HOME	This variable points to required JRE version for use by RETL.
TEST_ONL_ INTEGRATION_HOME	This value should be the directory where cron_import.sh and cron_export.sh reside. The INTEGRATION_HOME variable in aip_env_online.sh references this externally-defined variable by default. Using this externally-defined variable allows multiple testers to use the same aip_env_online.sh while working in different test directories. If the INTEGRATION_ HOME variable in aip_env_online.sh is changed to reference a hardcoded directory, this variable is not needed.
TEST_RETL_CONFIG_FILE	This value should contain the fully-qualified path and filename of a RETL configuration file containing database connection information. The RETL_CONFIG_FILE variable in aip_env_online.sh references this externally-defined variable by default. Using this externally-defined variable allows multiple testers to use the same aip_env_online.sh while referencing different RETL configuration files. If the RETL_ CONFIG_FILE variable in aip_env_online.sh is changed to contain a hardcoded value, this variable is not needed.
TEST_AIPDOMAIN	This value should contain the fully-qualified path of the AIP RPAS global domain. The AIPDOMAIN variable in aip_env_ online.sh references this externally-defined variable by default. Using this externally-defined variable allows multiple testers to use the same aip_env_online.sh while working with different test domains. If the AIPDOMAIN variable in aip_ env_online.sh is changed to reference a hardcoded domain, this variable is not needed.

The source call to load the profile is to setup environment variables to enable programs to function correctly (for instance; setting ORACLE_HOME and paths so that sqlldr functions correctly).

Example:

The following sample code can be defined in user .profile file:

```
export RFX_HOME=<path from root>/rfx/rfx-13.1
export ORACLE_HOME=<path from root>/oracle/product/11.1.0.7
export JAVA_HOME=<path of required JRE version compatible with RETL version>
export TEST_ONL_INTEGRATION_HOME=<path to integration directory>
export TEST_RETL_CONFIG_FILE=<path and filename of RETL config file>
export TEST_AIPDOMAIN=<path of the AIP RPAS global domain>
export RFX_TMP=$RFX_HOME/tmp

export PATH=$RFX_TMP:$RFX_HOME/bin:$ORACLE_HOME/bin:$JAVA_HOME/bin:$JAVA_
HOME/jre/bin:$PATH
export
PATH=$TEST_ONL_INTEGRATION_HOME:$TEST_ONL_INTEGRATION_HOME/bsa:$TEST_ONL_
INTEGRATION_HOME/scripts:$PATH
```

7

Installing AIP RPAS- Full Version

This chapter details the steps needed to do a full installation of AIP. For information about a patch installation, see Chapter 8, "Installing AIP RPAS-Upgrade Version".

The AIP RPAS Installer

The AIP RPAS Installer is an installation wizard that installs the following AIP RPAS components:

- AIP RPAS batch components (binaries, libraries, XML files, shell scripts)
- AIP RPAS Domain configuration and sample hierarchy data
- RMS-AIP Integration transformation files (shell scripts, schema files)
- AIP RPAS environment variables, including the AIP RPAS domain path

Before You Begin

Before starting the AIP Installer, the following software must be installed on your system:

- RPAS 13.2.0.1, which includes RPAS Server and RPAS Configuration Tools. Refer to the Oracle Retail Predictive Application Server documentation for information on installing and administering RPAS.
- Java SE 1.6
- unzip utility (on UNIX)

The AIP RPAS Installer includes an option for building an AIP RPAS domain. By default, this domain will be created on the sample hierarchy included in the AIP Installation. The *Oracle Retail Advanced Inventory Planning Implementation Guide* contains instructions for creating a domain that is built on top of non-sample, in-house customer hierarchy data.

Before running this installer, consider whether you are ready to build your production domain. If you are, read the "Building a Production AIP RPAS Domain" chapter of the *Oracle Retail Advanced Inventory Planning Implementation Guide* for alternate AIP RPAS domain build instructions.

Running the AIP RPAS Installer

Perform the following procedure to run the AIP Installer:

1. Locate and extract AIP-rpas-installer.zip into a newly created staging directory, which is referred to as [AIP_Installer].
2. Make sure you have run the retaillogin.ksh script or set up RPAS_HOME and RIDE_HOME properly. The package contents will be installed to those locations during the installation process.
3. Begin the Installer by changing to the root of the <AIP_Installer/aip> directory and by 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) you will be presented with a graphical user interface to the Installer. If you are running in console mode through a terminal emulator, you will be presented with the text interface to the installer.

   To run the Installer in the GUI mode, which is the recommended installation method, adjust the DISPLAY environment variable. For example use following command to adjust DISPLAY in Exceed:

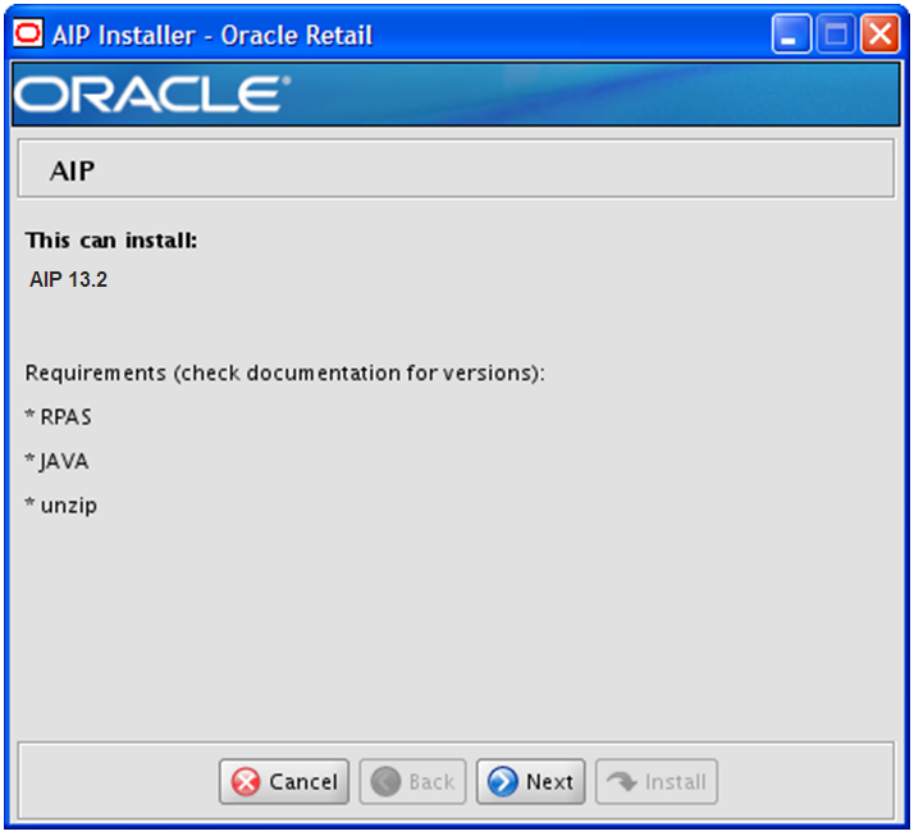
   export DISPLAY=<ipaddress>:0

   In both cases, the requested information will be identical, but displayed differently. In the GUI, you may be shown a checkbox to signal whether you want a component installed. In text mode, you are prompted for a response of *yes* or *no*.

   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**.

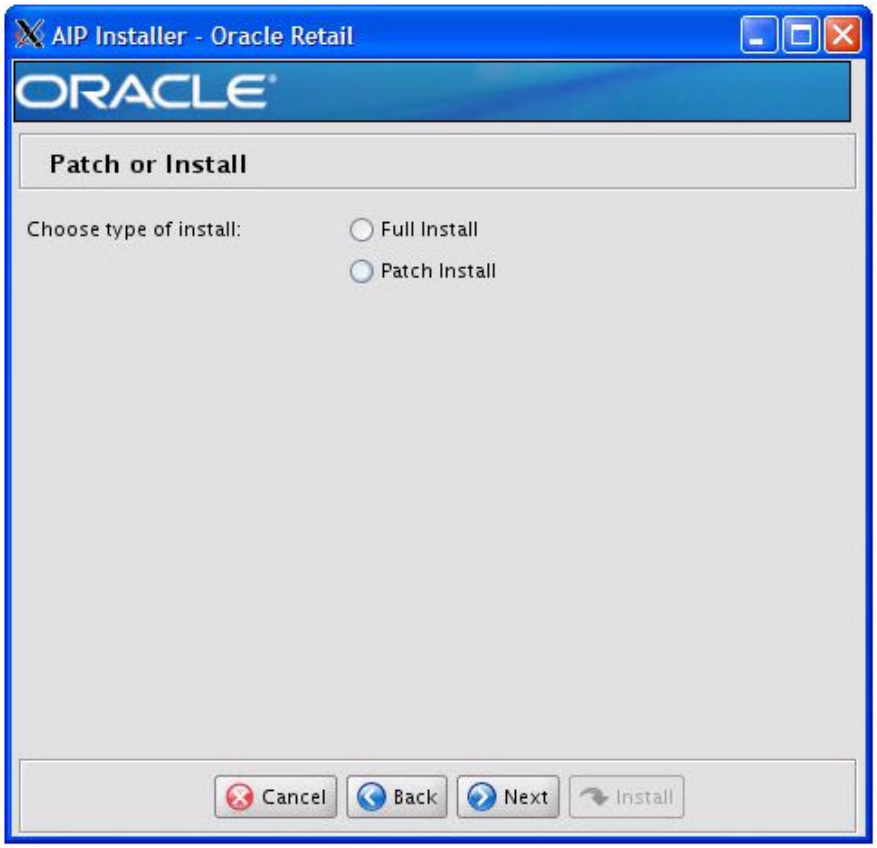
   The AIP Installer window appears and displays the AIP requirements, which you should already have installed. If you have not installed these items, perform the necessary installations before continuing.

Figure 7–1 AIP Installer Window



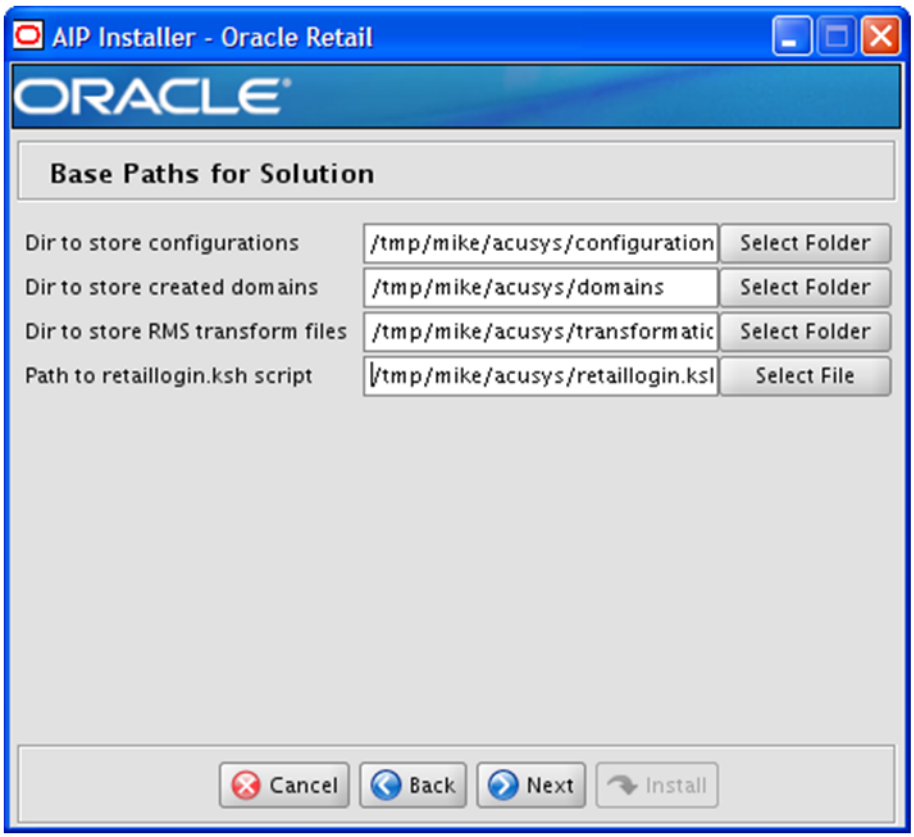
4. Click **Next** to continue to the Patch or Install screen.

Figure 7–2 Patch or Install Screen



5. Select **Full Install** to install AIP without a pre-existing environment. Click **Next** to continue to the Base Paths for Solution screen.

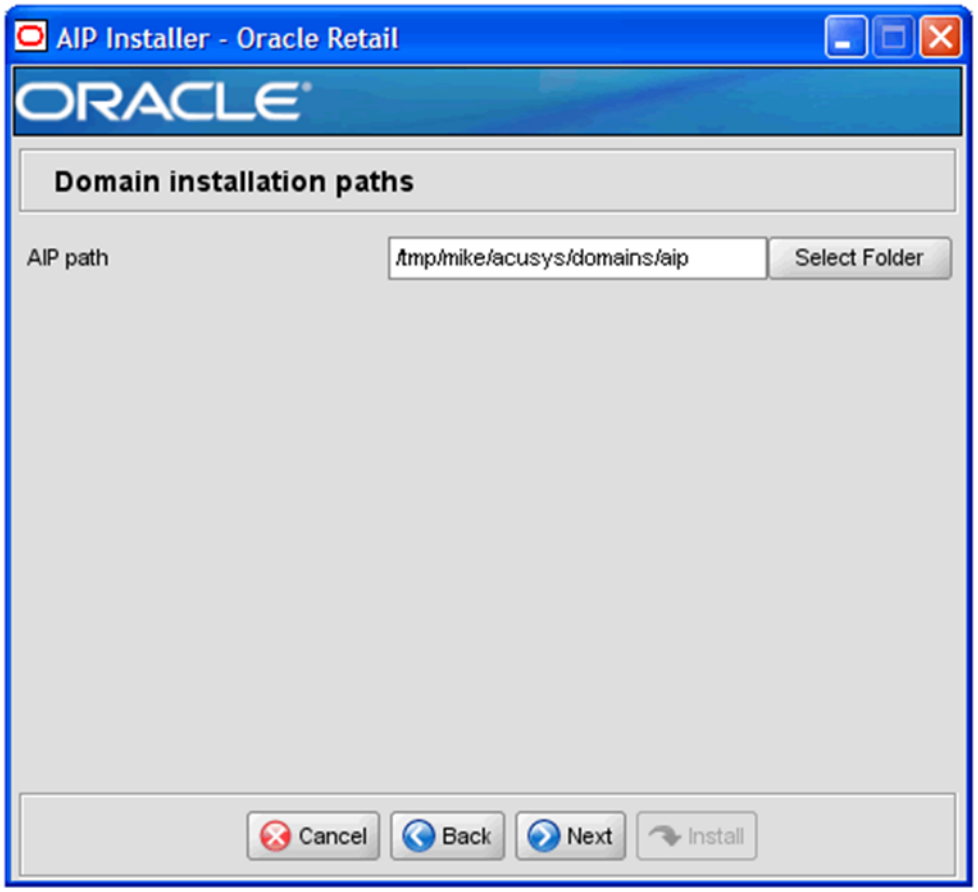
Figure 7–3 Base Paths for Solution Screen



6. Enter the following path information and then click **Next** to continue to the Domain Installation Paths screen.

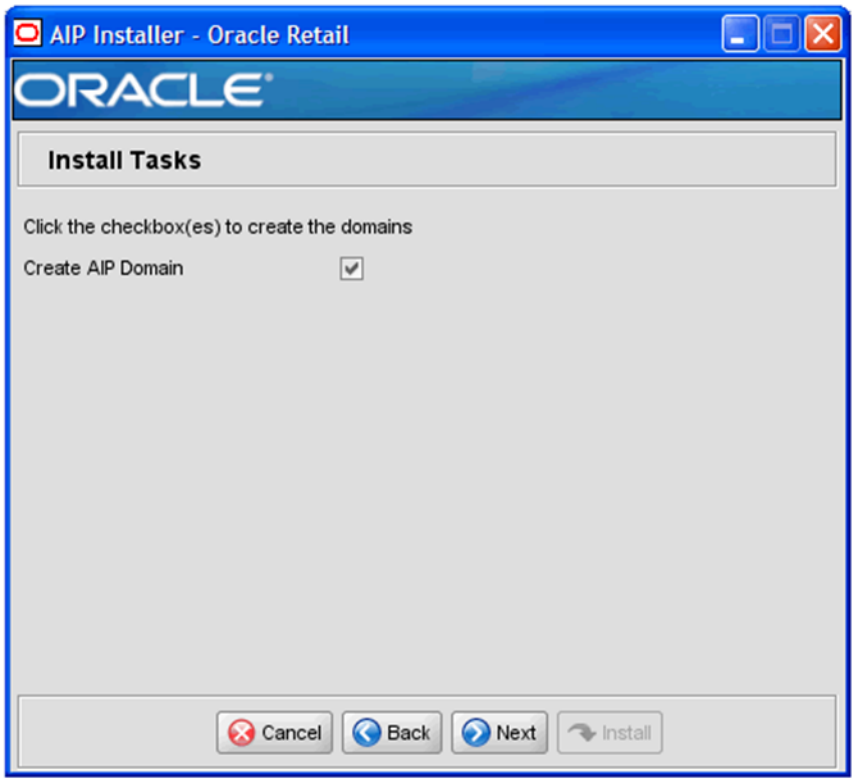
Path Information	Description
Dir to store configurations	Enter the target directory for your configurations, or click **Select Folder** to navigate to the appropriate location. This is the path that will be assigned to the environment variable $AIP_INSTALL.
Dir to store created domains	Enter the target directory for the domains that will be created by the AIP Installer, or click **Select Folder** to navigate to the appropriate location.
Dir to store RMS transform files	Enter the target directory for the RMS transformation files used by AIP, or click **Select Folder** to navigate to the appropriate location.
Path to retaillogin.ksh script	Enter the target path where the retaillogin.ksh file resides on your system, or click **Select File** to navigate to and select the retaillogin.ksh file. The retaillogin.ksh script was created during RPAS installation. The path must include the filename 'retaillogin.ksh'.

Figure 7–4 Domain Installation Paths Screen



7. Enter the path where your AIP domain will be installed, or click **Select Folder** to navigate to the appropriate location. Click **Next** to continue to the Install Tasks screen.

Figure 7–5 Install Tasks Screen



8. To have the AIP Installer create the AIP domain, make sure the Create AIP Domain option is selected and click **Next** to continue to the AIP Progress screen.

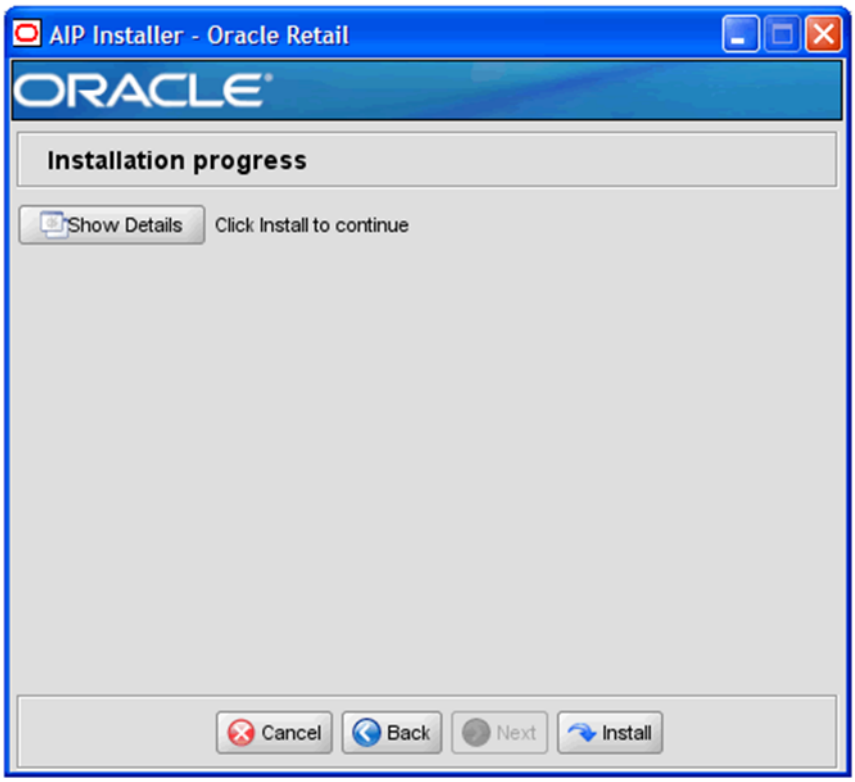
   If you want to create the AIP domain later, deselect the Create AIP Domain option and click **Next** to continue to the AIP Progress screen.

   Note: The domain build created during this installation will contain sample hierarchy positions. If you want your AIP RPAS domain to be created with your production hierarchy data, cancel the installation, and instead read the *Oracle Retail Advanced Inventory Planning Implementation Guide*, chapter "Building a Production AIP RPAS Domain."

   Created as part of this process is the "make_domain.aip" file located in the [Configurations Install Dir] entered during the install. This file contains all of the required parameters needed to support the domain install. If necessary this file may be modified if the default parameters are not appropriate for your particular environment.

   Note: This release of the AIP RPAS configuration is enabled for multi-language capability as a default. This means that the domain build will set up positions in the database arrays into which translated strings may be optionally loaded by the domain administrator at a later time. See the *Oracle Retail Application Server Administration Guide* for details.

Figure 7–6 Installation Progress Screen

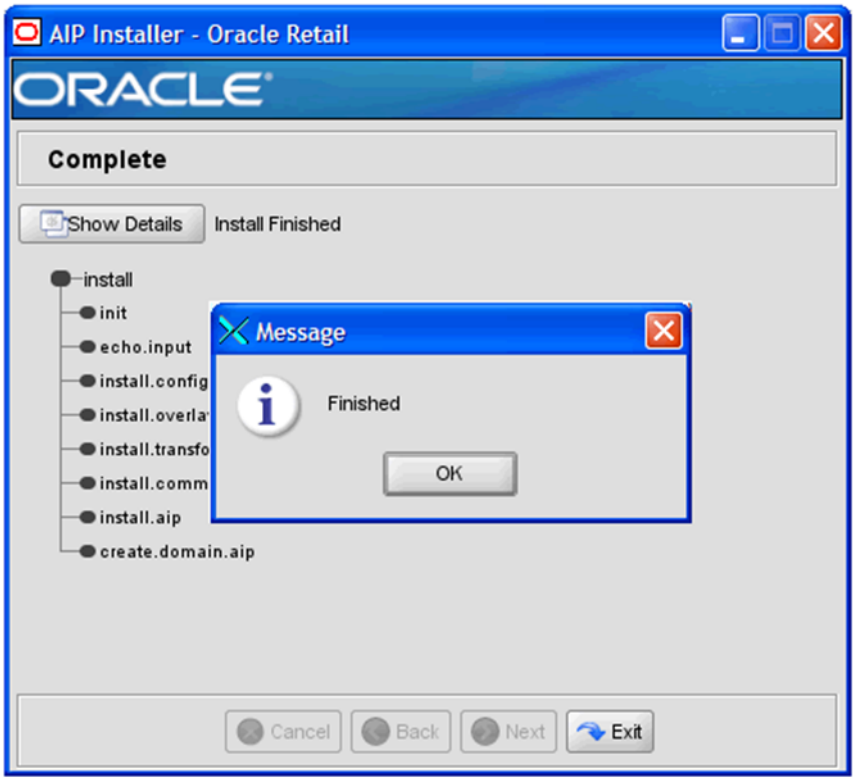


9. To display the progress of the components and tasks being performed by the AIP Installer, select **Show Details**. Click **Install** to start the installation process.

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

Note: The installation process can vary depending on your environment. Installation time might take 30 to 60+ minutes depending on server.

Figure 7–7 Complete Screen



10. Click **OK** to close the dialog box.
11. Review the installation details.

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

    If you wish to view the log again at a later date, a text copy was saved in the directory[AIP_Installer]. The log file will be named based on the product, aip, and a timestamp, followed by the ".log" extension.
12. Click **Exit** to close the AIP Installer window.

8

Installing AIP RPAS-Upgrade Version

This chapter details the steps needed to do a patch installation of AIP. For information about a full installation, see Chapter 7, "Installing AIP RPAS- Full Version".

The AIP RPAS Installer

The AIP RPAS Installer is an installation wizard that installs the following AIP RPAS components:

- AIP RPAS batch components (binaries, libraries, XML files, shell scripts)
- AIP RPAS Domain configuration and sample hierarchy data
- RMS-AIP Integration transformation files (shell scripts, schema files)
- AIP RPAS environment variables, including the AIP RPAS domain path

Before You Begin

Before starting the AIP Installer, the following software must be installed on your system:

- RPAS 13.2.0.1, which includes RPAS Server and RPAS Configuration Tools. Refer to the Oracle Retail Predictive Application Server documentation for information on installing and administering RPAS.
- Java SE 1.6
- unzip utility (on UNIX)

Pre-Installation Tasks

Prior to running the AIP Installer, ensure that all of the following tasks have been completed.

Remove Hot-fix Backup Files

AIP hot-fix instructions directed customer to backup certain files before applying the hot-fix. Ensure these backup files are not located inside the AIP domain directory structure. Extra files in the $AIPDOMAIN/repos or $AIPDOMAIN/installs directory trees may cause patch failure.

Backup Environment

Perform a backup of the current domain and RPAS environment ($RPAS_HOME) before attempting to install the patch. If any problems arise during the patch install, restore your backup data, fix the issue, and re-install the patch.

Custom Environment Variables

The script $RPAS_HOME/bin/aip_env_rpas.sh contains variables which can be customized by the client. When the AIP RPAS Executables and Definitions are upgraded, a new aip_env_rpas.sh will be copied into the $RPAS_HOME/bin directory, overwriting the previous copy. Once the new RPAS executable programs are installed into the $RPAS_HOME/bin directory, clients should copy back into $RPAS_HOME/bin/aip_env_rpas.sh their specific values for any of the environment variables they had previously changed from the default values.

After running the AIP Installer, ensure that your custom environment variables are preserved, see "Reintroduction of Custom Environment Variables" on page 8-8.

Running the AIP RPAS Installer

Perform the following procedure to run the AIP Installer:

1. Locate and extract AIP-rpas-installer.zip into a newly created staging directory, which is referred to as[AIP_Installer].
2. Merge the AIP-RPAS Definition Customizations

   If you have customized the AIP RPAS domain (hierarchies, measures) configuration, then these customizations must be merged into the new configuration delivered with this patch. To merge your current AIP RPAS definitions customizations into the AIP 13.2 RPAS configuration, perform the following procedure.

   a. Change the directory to:

      [AIP_Installer]/aip/[platform]/env/AIP_INSTALL/

      Where [platform] is one of the following:

      - AIX5.3
      - AIX61
      - Linux
      - HP-UX
      - SunOS

   b. To extract the AIP 13.2 RPAS definitions configuration, execute the following command from $AIP_INSTALL:

      ```
      $ tar -xf configuration.tar
      ```

   c. Refer to the *Oracle Retail Predictive Application Server Configuration Tools User Guide* to perform the following RPAS definitions customizations as needed on $AIP_INSTALL/configuration:

      - Add new measures
      - Add new rule groups
      - Add new workbooks
      - Change the hierarchy

Note: Do not modify any existing measures, rules groups, or attempt any other customization without consulting with an Oracle Retail Support Representative.

d. Repackage the $AIP_INSTALL/configuration.tar:

```
$ tar -cf configuration.tar configuration
```

3. Make sure you have run the retaillogin.ksh script or set up RPAS_HOME and RIDE_HOME properly. The package contents will be installed to those locations during the installation process.

4. Change to the root of the [AIP_Installer]/aip directory and run the installer by entering the following commands:

```
cd [AIP_Installer]/aip
./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) you will be presented with a graphical user interface to the Installer. If you are running in console mode through a terminal emulator, you will be presented with the text interface to the installer.

To run the Installer in the GUI mode, which is the recommended installation method, adjust the DISPLAY environment variable. For example use following command to adjust DISPLAY in Exceed:

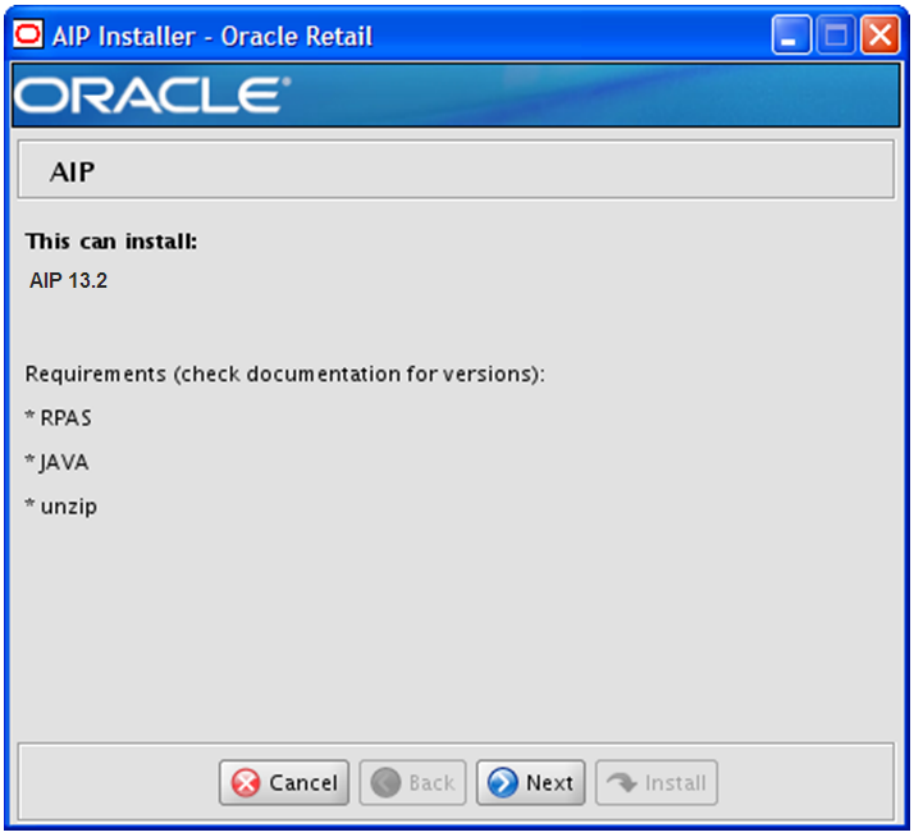
export DISPLAY=<ipaddress>:0

In both cases, the requested information will be identical, but displayed differently. In the GUI, you may be shown a checkbox to signal whether you want a component installed. In text mode, you will be prompted for a response of "yes" or "no".

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**.

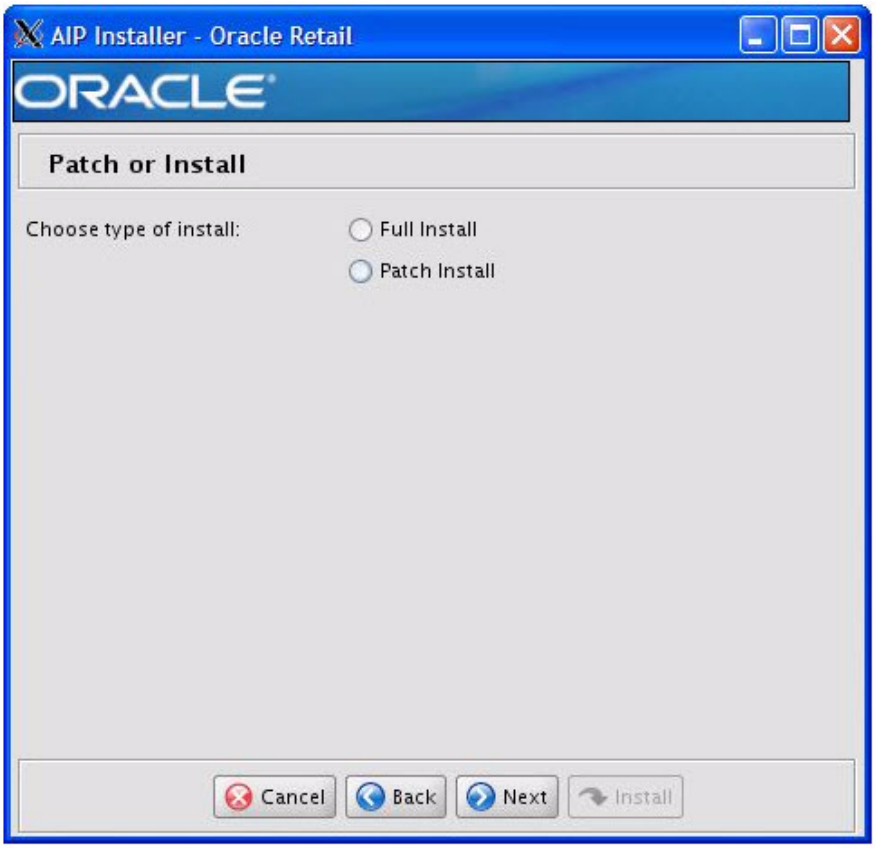
The AIP Installer window appears and displays the AIP requirements, which you should already have installed. If you have not installed these items, perform the necessary installations before continuing.

Figure 8–1 AIP Installer Window



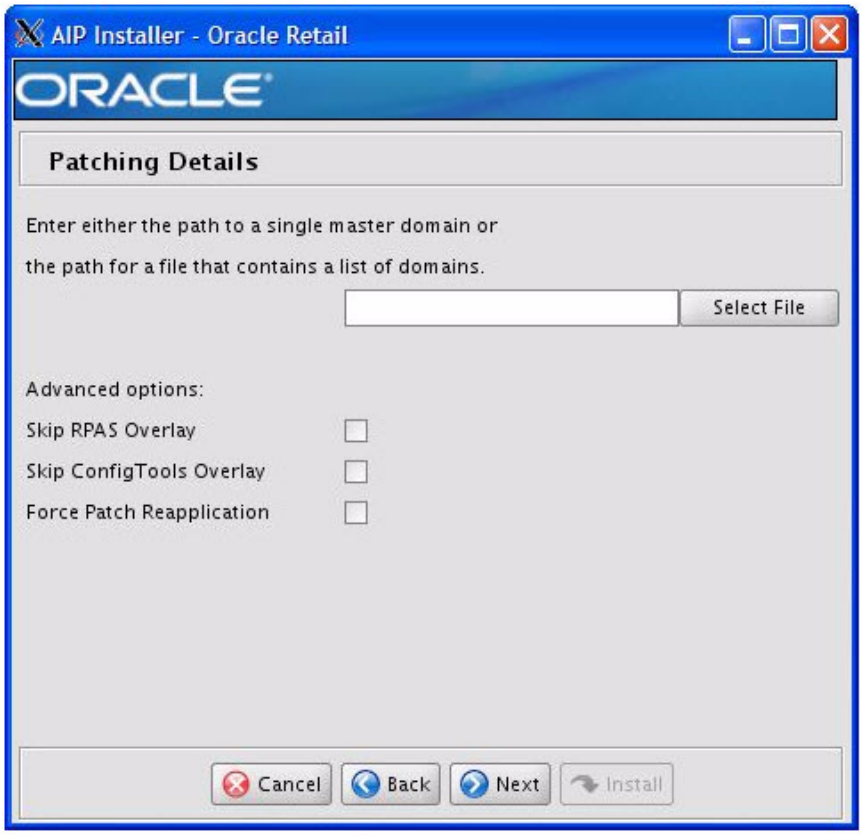
5. Click **Next** to continue. The Patch or Install screen appears.

Figure 8–2 Patch or Install Screen



6. Select **Patch Install** to install AIP when you have a pre-existing environment. Click **Next** to continue to the Patching Detail screen.

Figure 8–3 Patching Details Screen

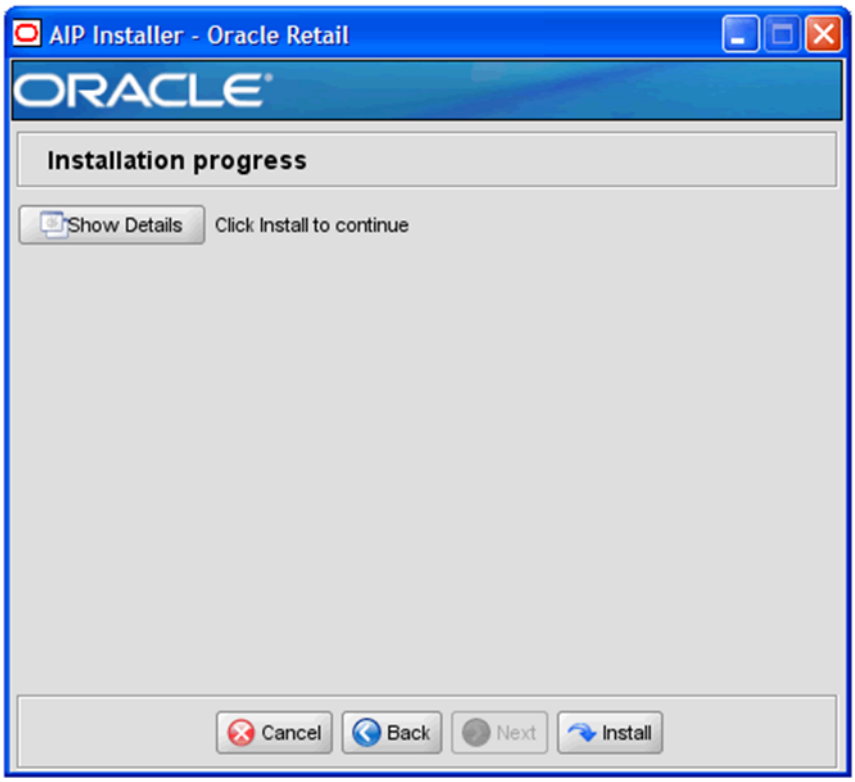


The Patching Detail screen allows you to set the path to your domains and select installation options which performs a patch installation over an existing AIP installation and any existing AIP domains.

7. Enter the path in the Select File box , select any options and click **Next** to continue to the Installation Progress screen.

Patching Details Fields	Description
Select File box	Enter the absolute path to a master domain or an absolute path to a file that contains a domain list.
Skip RPAS Overlay	When checked, patching skips the RPAS_HOME overlay application.
Skip ConfigTools Overlay	When checked, patching skips the RIDE_HOME overlay application.
Force Patch Reapplication	Select this checkbox when you are reapplying this patch.

Figure 8–4 Installation Progress Screen

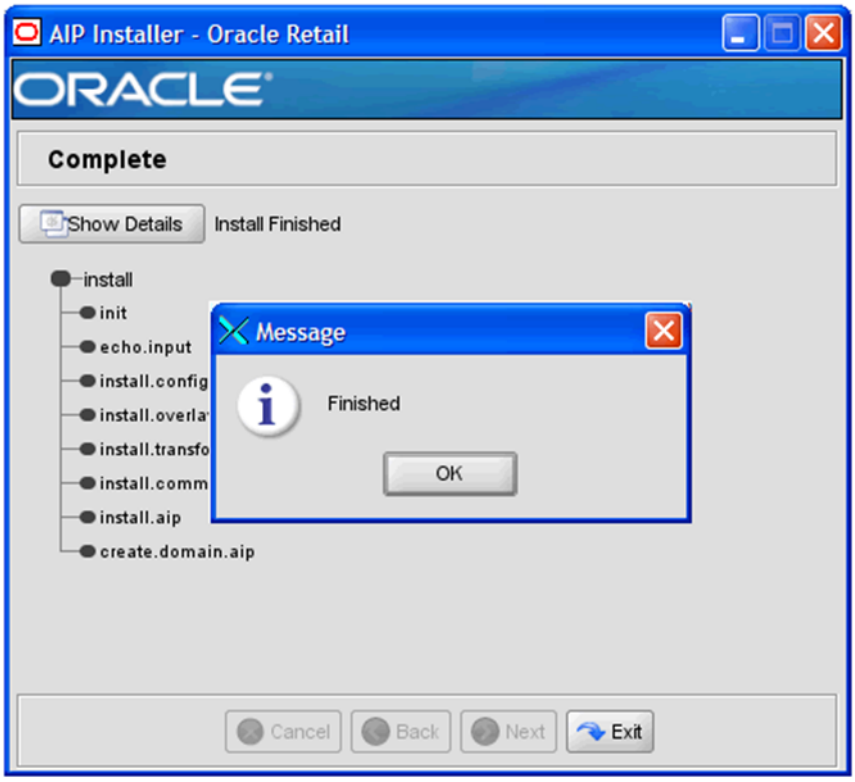


8. To display the progress of the components and tasks being performed by the AIP Installer, select **Show Details**. Click **Install** to start the installation process.

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

   Note: The installation process can vary depending on your environment. Installation time might take 30 to 60+ minutes depending on server.

Figure 8–5 Complete Screen



9. Click **OK** to close the dialog box.
10. Review the installation details.

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

    If you wish to view the log again at a later date, a text copy was saved in the directory[AIP_Installer]. The log file will be named based on the product, aip, and a timestamp, followed by the ".log" extension.
11. Click **Exit** to close the AIP Installer window.

Post-Installation Tasks

After running the AIP Installer, complete the following tasks.

Reintroduction of Custom Environment Variables

The script $RPAS_HOME/bin/aip_env_rpas.sh contains variables which can be customized by the client. Now that the AIP RPAS Executables and Definitions are upgraded, a new aip_env_rpas.sh has been copied into the $RPAS_HOME/bin directory, overwriting the previous copy. You should copy back into $RPAS_HOME/bin/aip_env_rpas.sh the specific values preserved during the backup.

When Upgrading to 13.2 or Later

One of the changes in AIP 13.2 is the removal of prefixes for measure data containing a string value that is a position of a hierarchy dimension. aip_env_rpas.sh contains several values affected by this. When reintroducing custom values from the backup of aip_env_rpas.sh into the new AIP 13.2 aip_env_rpas.sh, make note of the SPECIAL_ORDER_CYCLE and CSC_AND_STORE_DIRECT_STRING variables, whose values no longer contain the PFOC and SFMT prefix.

9

Installation Questions, Reinstallation, and Troubleshooting

This chapter provides information about installation questions, reinstalling your AIP software components, and troubleshooting the installation process.

Installation Questions

Both the database schema and application installers will ask for several different URLs. This section provides information about the URLs and their syntax.

About Installation URLs

Both the database schema and application installers ask for several different URLs, such as the JDBC URL fora database and the deployer URI. The following sections describe these path statements.

JDBC URL for a Database

Used by the Java application and by the installer to connect to the database.

Item	Description
Syntax	`jdbc:oracle:thin:@<host>:<port>:<sid>`
<host>	hostname of the database server
<port>	database listener port
<sid>	system identifier for the database
Example	`jdbc:oracle:thin:@myhost:1521:mysid`

Deployer URI

The Deployer URI is used by the Oracle ANT installer tasks to deploy an application to an OC4J instance. The application installer does not ask the user for this value; it is constructed based on other inputs and written to the ant.install.properties file for input to the installation script. For repeat installations using silent mode, you may need to correct mistakes in the deployer URI.

Note: There are several different formats for the deployer URI depending on your cluster topology. Consult the Deploying with the OC4J Ant Tasks chapter of the *OC4J Deployment Guide f*or further details.

Managed OC4J

Item	Description
Syntax	`deployer:cluster:opmn://<host>:<port>/<instance>`
<host>	hostname of the OracleAS environment
<port>	OPMN request port of the OracleAS environment. This can be found in the <ORACLE_HOME>/opmn/conf/opmn.xml file.
Example	`deployer:cluster:opmn://myhost:6003/sim-oc4j-instance`

Managed OC4J

Item	Description
Syntax	`deployer:oc4j:<host>:<port>`
<host>	hostname of the OracleAS environment
<port>	RMI port of the OC4J server. This can be found in the ORACLE_HOME/j2ee/home/config/rmi.xml file.
Example	`deployer:oc4j:myhost:23791`

Reinstallation

Reinstalling in Silent Mode

Once you have successfully installed the various AIP software components, you may wish the repeat the installation. When the AIP installers run, they generate and store installation information to the ant.install.properties file. You can reinstall your AIP software using the stored in this file. When using this information, there is no need to enter any information on screen, since everything required is in the ant.installer.properties file, the reinstallation can be run from the command line and is referred to as reinstalling in "silent mode" since no prompts or data input is required.

To reinstall your AIP software in silent mode using the information stored in the aip.install.properties file, perform the following procedure.

1. Edit the ant.install.properties file to correct or modify any settings.
2. Run the installer again from the installation directory using the following command.

   ```
   ./install.sh silent
   ```

Troubleshooting

This section provides information about potential issues that may be encountered during installation.

Database Installer Hangs on Startup

Symptom

When the database schema installer is run, the following is written to the console and the installer hangs indefinitely:

```
Running pre-install checks
Running tnsping to get listener port
```

Solution

The installer startup script is waiting for control to return from the **tnsping** command, but tnsping is hanging. Type Control+C to cancel the Installer, and investigate and solve the problem that is causing the **tnsping <sid>** command to hang. This can be caused by duplicate database listeners running.

Unreadable Buttons in the Installer

If you are unable to read the text within the installer buttons, it probably means that your JAVA_HOME is pointed to a pre-1.4.2 JDK. Set JAVA_HOME to a Java development kit of version 1.4.2 or later and run the installer again.

"Unable to get a deployment manager" Message

Symptom

The application installer quits with the following error message:

```
[oracle:deploy] Unable to get a deployment manager.
[oracle:deploy]
[oracle:deploy] This is typically the result of an invalid deployer URI format
being supplied, the target server not being in a started state or incorrect
authentication details being supplied.
[oracle:deploy]
[oracle:deploy] More information is available by enabling logging -- please see
the Oracle Containers for J2EE Configuration and Administration Guide for details.
```

Solution

This error can be caused by any of the following conditions:

- OC4J instance provided is not running
- Incorrect OC4J instance name provided
- Incorrect OC4J administrative username and/or password
- Incorrect OPMN request port provided

Make sure that the OC4J instance is running, and then check the ant.install.properties file for entry mistakes. Pay close attention to the input.deployer.uri (refer to "About Installation URLs" on page 9-1 for more information on URL references),

input.oc4j.instance, input.admin.user, and input.admin.password properties. If you need to make a correction, you can run the installer again with this file as input by running silent mode (refer to "Reinstalling in Silent Mode" on page 9-2 for more information).

Unresponsive Fields when Running Installer in GUI Mode

Symptom

In GUI mode, you may click in a field and find it unresponsive, and the following message appears in the console window:

```
XTEST extension not installed on this X server: Error 0
```

Solution

To run the AIP Online installer in GUI mode you must have the XTEST extension enabled in your X server. Perform the followingprocedure to enable XTEST in Exceed.

1. Open Xconfig to edit your Exceed configuration settings.
2. Go to the X Server Protocol settings.
3. Select the Extensions tab.
4. Make sure the XTEST extension is selected.
5. Restart the X Server and re-run the AIP Online Installer.

"Could not create system preferences directory" Warning

Symptom

The following text appears in the installer Errors tab:

```
May 22, 2006 11:16:39 AM java.util.prefs.FileSystemPreferences$3 run
WARNING: Could not create system preferences directory. System preferences are
unusable.
May 22, 2006 11:17:09 AM java.util.prefs.FileSystemPreferences
checkLockFile0ErrorCode
WARNING: Could not lock System prefs. Unix error code -264946424.
```

Solution

This is related to Java bug 4838770. The /etc/.java/.systemPrefs directory may not have been created on your system. For details on this Java error, see http://bugs.sun.com.

This is an issue with your installation of Java and does not affect the Oracle Retail product installation.

"Could not find X Input Context" Warnings

Symptom

The following text appears in the console window during execution of the installer in GUI mode:

```
Couldn't find X Input Context
```

Solution

This message is harmless and can be ignored.

ConcurrentModificationException in Installer GUI

Symptom

In GUI mode, the errors tab shows the following error:

```
java.util.ConcurrentModificationException
            at
java.util.AbstractList$Itr.checkForComodification(AbstractList.java:448)
            at java.util.AbstractList$Itr.next(AbstractList.java:419)
… etc
```

Solution

You can ignore this error. It is related to third-party Java Swing code for rendering of the installer GUI and does not affect the retail product installation.

A

Appendix: Sample Database Scripts

Sample Database init.ora

The following code provides a sample database, init.ora. The commented code provides instructions about making the necessary modifications for your environment.

```
###############################################################################
# Oracle 11.1.0.x Parameter file
#
# NOTES: Before using this script:
# 1. Change <datafile_path>, <admin_path>, <utl_file_path>, <diag_path>
and <hostname>
# values as appropriate.
# 2. Replace the word SID with the database name.
# 3. Size parameters as necessary for development, test, and production
environments.
# ----------------------------------------------------------------------
# MAINTENANCE LOG
#
# Date By Parameter Old/New Notes
# +------+ +---------+ +-----------------+ +-------------+ +-------------+
#
#
###############################################################################
def#
-------------------------------------------------------------------------------
# The policy is to give 60% for sga and 40% for PGA out of Memory Target at
startup
# -------------------------------------------------------------------------------
memory_target = 2000M
# -------------------------------------------------------------------------------
audit_file_dest = <admin_path>/adump
compatible = 11.1.0
control_files = (<datafile_path>/control01.ctl
,<datafile_path>/control02.ctl)
db_block_size = 8192 # Default is 2k; adjust before db creation,
cannot change after db is created
db_file_multiblock_read_count = 16 # Platform specific (max io
size)/(block size)
db_name = SID
diagnostic_dest = '<diag_path>'
java_pool_size = 100M
job_queue_processes = 5 # Oracle Retail required; number of
cpu's + 1
```

```
local_listener =
"(ADDRESS=(PROTOCOL=TCP)(HOST=<hostname>)(PORT=1521))"
nls_calendar = GREGORIAN
nls_date_format = DD-MON-RR # Oracle Retail required; if RDW
database see later entry for proper format
nls_language = AMERICAN # Default
nls_numeric_characters = "." # Should be explicitly set to ensure all
users/batch get the same results
nls_sort = BINARY # Should be explicitly set to ensure all
sessions get the same order
nls_territory = AMERICA # Default
open_cursors = 900 # Oracle Retail required (minimum=900);
default is 50
optimizer_features_enable = 11.1.0.7
optimizer_mode = CHOOSE # Oracle Retail required
Appendix: Oracle 11g Database Parameter File
56 Oracle Retail Merchandising System
plsql_optimize_level = 2 # 10g change; use this setting
to optimize plsql performance
processes = 500 # Max number of OS processes that can connect
to the db
query_rewrite_enabled = TRUE # Oracle Retail required for functionbased
indexes
session_cached_cursors = 900 # Oracle Retail required;
undo_management = AUTO
undo_retention = 1800 # Currently set for 30 minutes; set to avg
length of transactions in sec
undo_tablespace = undo_ts
user_dump_dest = <admin_path>/udump
utl_file_dir = <utl_file_path>
workarea_size_policy = auto # Should be set to auto
when pga_aggregate_target is set
#
# *** Set these parameters for Oracle Retail Data Warehouse (RDW) database ***
#nls_date_format = DD-MON-RRRR # Required by MicroStrategy
#query_rewrite_integrity = TRUSTED
#star_transformation_enabled = TRUE
#utl_file_dir = <Windows_utl_file_path>,
<UNIX_util_file_path>
#
# *** Archive Logging, set if needed ***
#log_archive_dest_1 = 'location=<admin_path>/arch/'
#log_archive_format = SIDarch_%r_%s_%t.log
#log_buffer = 10485760 # Set to (512K or 128K)*CPUs
#log_checkpoint_interval = 51200 # Default:0 - unlimited
#log_checkpoint_timeout = 7200 # Default:1800 seconds
```

Sample Tablespace Creation Scripts

The tablespaces displayed in the following code example are required.

> **Note:** Oracle Retail recommends the use of locally managed tablespaces with manual segment space management. These tablespaces are not sized for a production environment!

create_aip_tablespaces.sql

Execute as:**sysdba**

Modify file paths and "ORACLE_SID" for your environment.

```
CREATE TABLESPACE RETEK_INDEX DATAFILE
    '/u01/oradata/$ORACLE_SID/retek_index01.dbf'  SIZE 500M
    AUTOEXTEND ON NEXT 100M MAXSIZE 2000M
    EXTENT MANAGEMENT LOCAL
    SEGMENT SPACE MANAGEMENT MANUAL
;
CREATE TABLESPACE RETEK_DATA DATAFILE
    '/u01/oradata/$ORACLE_SID/retek_data01.dbf'  SIZE 500M
    AUTOEXTEND ON NEXT 100M MAXSIZE 2000M
    EXTENT MANAGEMENT LOCAL
    SEGMENT SPACE MANAGEMENT MANUAL
```

B

Appendix: Installation Order

This section provides a guideline as to the order in which the Oracle Retail applications should be installed. If a retailer has chosen to use some, but not all, 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.

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 RPM, you are asked for the RIBforRPM provider URL. Since RIB is installed after RPM, make a note of the URL you enter. If you need to change the RIBforRPM provider URL after you install RIB, you can do so by editing the jndi_provider.xml file.

9. Oracle Retail Central Office (ORCO)
10. Oracle Retail Back Office (ORBO) or Back Office with Labels and Tags (ORLAT)
11. 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.

12. Oracle Retail Predictive Application Server (RPAS)

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