Oracle® Retail Advanced Inventory Planning

Installation Guide

Release 13.1.5

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Oracle Retail Advanced Inventory Planning Installation Guide, Release 13.1.5

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Value-Added Reseller (VAR) Language

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Preface

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

Audience

This Installation Guide is for the following audiences:

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

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Related Documents

For more information, see the following documents in the Oracle Retail Advanced Inventory Planning Release 13.1.5 documentation set:

- *Oracle Retail Advanced Inventory Planning Release Notes*

Customer Support

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

https://support.oracle.com

When contacting Customer Support, please provide the following:

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

Review Patch Documentation

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

Oracle Retail Documentation on the Oracle Technology Network

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

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

(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 document provides the patch installation instructions for Advanced Inventory Planning (AIP) version 13.1.5.

> **Note:** AIP release 13.1.5 is a patch release **only** and this guide only describes instructions to upgrade.

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 upgrade an AIP 13.0.2.x, 13.1.1.x or 13.1.2.x installation to AIP 13.1.5. The AIP installation consists of the following components:

- The Oracle® Retail Predictive Applications Server (RPAS) version 13.1.2.45 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 13.1.5 solution appear in this guide.

Before you begin installing AIP, 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 Merchandising System (RMS) 13.1.5
- Oracle Retail Integration Bus (RIB) 13.1.5
- Oracle Retail Extract Transform and Load (RETL) 13.1
- Oracle Retail Replenishment Optimization 13.1.1

Server Operating Systems

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

- AIX 5.3, 6.1
- OEL 5.2

Korn Shell

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

- ksh88 (AIX)
- pdksh (OEL)

Server JRE

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

- JRE 1.5 - Required for OAS 10.1.3.4.

  Note: Clients using AIX must use the IBM JRE version 1.5 SR7 or newer.

- JRE 1.6 - Required for use with RPAS and RETL

Database

This version of AIP is compatible with the following database:

- Oracle 10g Enterprise Release 2 (version 10.2.0.4) in in standalone configuration.
- Oracle 11g Enterprise Edition Release 1 (version 11.1.0.7.0) in clustered topology.
- Oracle 11g Enterprise Edition Release 1 (version 11.1.0.7.0) in standalone configuration.

JDBC drivers

This release requires OCI (thick) driver for use in RETL 13.1.

RPAS

RPAS 13.1.2.45, 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 13.1.2.45
- 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 Application Server(Version 10.1.3.4) in stand alone configuration
- Oracle Application Server(Version 10.1.3.4) in clustered topology

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 1.5.0_22

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AIP Upgrade

Note: AIP release 13.1.5 is a patch release **only**. This guide only describes instructions to upgrade.

This chapter describes how to upgrade an AIP 13.0.2.x, 13.1.1.x, 13.1.2.x or 13.1.3.x installation to AIP 13.1.5. Since AIP is a product distributed across two database technologies, the Oracle Retail Predictive Application Server (AIP-RPAS) and the Oracle Enterprise Edition (AIP-Oracle), the following instructions are divided likewise into "AIP-RPAS Installation" and "Upgrading the AIP Oracle Components" sections. Read the upgrade instructions in entirety before starting the upgrade.

Note: AIP Java/Oracle, AIP on Oracle, and AIP Online 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.

AIP Upgrade Scope and Support

As of AIP 13.1.5, there are three code lines of AIP which are directly patchable to AIP 13.1.5: AIP 13.0.2, AIP 13.1.1, 13.1.2. and AIP 13.1.3.

As of AIP 13.1.5, the latest hot fix for...	Is the...	Notes
AIP 13.0.2	13.0.2.28 fix	Any AIP 13.0.2 hot fixes delivered after AIP 13.0.2.28 are not included in the AIP 13.1.5 package but are delivered (also referred to as 'forward-ported'), as 13.1.5.1 hot fixes if applicable.
AIP 13.1.1	13.1.1.9 fix	Any AIP 13.1.1 hot fixes delivered after AIP 13.1.1.5 are not included in the AIP 13.1.5 package but are delivered (also referred to as 'forward-ported'), as 13.1.5.1 hot fixes if applicable.
AIP 13.1.2	13.1.2.19 fix	
AIP 13.1.3	13.1.3.4 fix	Any hot fixes delivered after the 13.1.3 patch are all included in the 13.1.5 patch.

Prior to upgrading, it is imperative that clients contact AIP Sustaining Engineering to confirm which, if any, AIP hot fixes need to be applied post-upgrade. The following example illustrates the need for this guidance:

Example:

- If an AIP 13.0.2.28 hot fix is released, and the issue is deemed applicable to AIP 13.1.5, the fix would be 'forward-ported' and released as a 13.1.5.x hot fix.
- If a client upgraded from AIP 13.0.2.28 to AIP 13.1.5, they would need to apply the forward-ported 13.1.5.x hot fix.
- If a client applied the AIP 13.0.2.28 hot fix and subsequently performed the upgrade to 13.1.5, executing the forward-ported 13.1.5.x hot fix may or may not be necessary, depending on code module(s) involved.

AIP Installation Overview

This section describes AIP installation.

AIP Package Extraction

Download the 13.1.5 package (aip_13.1.5.zip) from My Oracle Support (https://support.oracle.com/) to a staging folder (such as, $PACKAGEDIR) that is accessible to all components of your AIP 13.1.5 installation. The following sample commands are provided to guide you through the file extraction process and identify the files provided in this patch.

Example of Package Extraction

```
$ cd $PACKAGEDIR
$ unzip aip_13.1.5.zip
$ unzip aip-13.1.5.tar.zip
$ tar xf aip-13.1.5.tar
```

Sample Listing

Table 3–1 shows the contents of files and directories extracted under the $PACKAGEDIR for AIX server operating system:

Table 3–1 Sample Listing for the $PACKAGEDIR

AIP-RPAS Installation Files	aip/13.1.5/Retek.pm
	aip/13.1.5/rsp_manager
	aip/13.1.5/aix/Version
	aip/13.1.5/aix/domain/
	aip/13.1.5/aix/domain-scripts/
	aip/13.1.5/aix/domain-scripts/postproc.005
	aip/13.1.5/aix/env/
	aip/13.1.5/aix/env/AIP_INSTALL/
	aip/13.1.5/aix/env/AIP_INSTALL/aip_13.1.5_measure_backup_list.txt
	aip/13.1.5/aix/env/AIP_INSTALL/configuration.tar
	aip/13.1.5/aix/env/AIP_INSTALL/input.tar
	aip/13.1.5/aix/env/AIP_INSTALL/domain_build.tar
	aip/13.1.5/aix/notice
	aip/13.1.5/aix/rpas/
	aip/13.1.5/aix/rpas/bin/*
	aip/13.1.5/aix/rpas/applib/*
	aip/13.1.5/aix/rpas/applib/resources/*
AIP-Oracle Installation Files	$PACKAGEDIR/AIP-online-appserver-installer.zip
	$PACKAGEDIR/AIP13.1.5-db-upgrade.zip

Compatibility and Hardware Requirements

The following table summarizes the changes in supporting technologies and supporting Oracle Retail products for AIP from 13.0.2 to 13.1.5 release

Table 3–2 Compatibility and Hardware Requirements

Supporting Product/Technology	AIP 13.0.2 certified version	AIP 13.1.1 certified version	AIP 13.1.3 certified version	AIP 13.1.5 certified version
Supporting Oracle Retail Product				
RPAS	13.0.2.1 (orig) 13.0.2.12 (per AIP 13.0.2.7)	13.0.4	13.1.2.3	13.1.2.45
RIB	13.0.2	13.1.1	13.1.1	13.1.5
RETL	11.3 or greater	13.1	13.1	13.1
RMS	10.1.x, 11.0.x, 13.0.2	13.1.1	13.1.3	13.1.5
RO	-	13.0.4	13.1.1	13.1.1
Supporting Technology				
Database	10.2.0.3 (10g R2)	11g (11.1.0.7.0)	10g r2 (10.2.0.4) 11g (11.1.0.7.0)	10g r2 (10.2.0.4) 11g (11.1.0.7.0)
Application Server	OAS 10.1.3.3	OAS 10.1.3.4	OAS 10.1.3.4	OAS 10.1.3.4

Table 3–2 (Cont.) Compatibility and Hardware Requirements

Supporting Product/Technology	AIP 13.0.2 certified version	AIP 13.1.1 certified version	AIP 13.1.3 certified version	AIP 13.1.5 certified version
Server Operating System	AIX 5.3	AIX 5.3, AIX 6.1 Sun Solaris 10, HP -UX 11.31 (AIP-Oracle), HP-UX 11.23 (AIP-RPAS) OEL 5 (AIP-Oracle), OEL 4.5 (AIP-RPAS)	AIX 5.3, 6.1 Sun Solaris 10 HP-UX 11.31 (Integrity) OEL 5.2	AIX 5.3, 6.1 OEL 5.2
Java SE (used by RPAS and RETL)	1.5	1.6	1.6	1.6
JDBC driver used by RETL	Thin	OCI (thick)	OCI (thick)	OCI (thick)

Recommended Upgrade Path

The general guidelines for upgrading AIP to 13.1.5 are as follows:

1. First upgrade supporting Oracle retail products including AIP as described in table above while using the existing supporting technology.
2. Then upgrade the supporting technologies afterwards. Note that some environment variables and some configuration parameters may need to be updated after supporting technologies are upgraded. Examples may include RFX_HOME, ORACLE_HOME, JAVA_HOME variables in .profile, database connection details in db.properties used by Application Server, config.xml and aip_env_online.sh files in the integration folder. Read the sections "AIP-RPAS Installation" and "Upgrading the AIP Oracle Components" for further details about AIP online and AIP-RPAS upgrade process.

Supported Oracle Retail Products

AIP 13.1.5 is compatible with the following Oracle Retail products:

- Oracle Retail Merchandising System (RMS) 13.1.5
- Oracle Retail Predictive Application Server (RPAS) 13.1.2.45
- Oracle Retail Integration Bus (RIB) 13.1.5
- Oracle Retail Extract Transform and Load (RETL) 13.1
- Oracle Retail Replenishment Optimization 13.1.1

Note: AIP 13.1.5 can integrate with RMS 10.1.x and 11.0.x if a custom interface is used to transmit AIP-generated purchase orders and transfers to RMS.

Server Operating Systems

AIP 13.1.5 is compatible with the following server operating systems:

- AIX 5.3, AIX 6.1
- OEL 5.2

Korn Shell

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

- ksh88 (AIX)
- pdksh (OEL)

Server JRE

This version of AIP requires the following server Java Run Time Environments (JRE):

- JRE 1.5 - Required for OAS 10.1.3.4.

> **Note:** Clients using AIX must use the IBM JRE version 1.5 SR7 or newer.

- JRE 1.6 - Required for use with RPAS and RETL

Database

This version of AIP is compatible with the following database:

- Oracle 10g Enterprise Release 2 (version 10.2.0.4) in in standalone configuration.
- Oracle 11g Enterprise Edition Release 1 (version 11.1.0.7.0) in clustered topology
- Oracle 11g Enterprise Edition Release 1 (version 11.1.0.7.0) standalone database.

JDBC drivers

This patch requires the use of OCI (thick) driver by RETL to connect to Oracle.

- (OCI drivers are generally available as part of Oracle Client or Oracle Database and do not need separate installation).

Application Server

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

- Oracle Application Server(Version 10.1.3.4) in stand alone configuration
- Oracle Application Server(Version 10.1.3.4) in clustered topology

Client PC and Web Browser Requirements

Client PC Requirements

Item	Requirements
Client PC	■ 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

Item	Requirements
Client Browser	Microsoft Internet Explorer 5.5, 6.0, 7.0.
General	For the client Java Run Time Environment (JRE): JRE 1.5.0_22

AIP-RPAS Installation

This section describes AIP-RPAS installation.

AIP-RPAS Upgrade Prerequisites

In order to upgrade the AIP RPAS components to AIP 13.1.5, first verify the following criteria for the AIP RPAS system:

#	Step	Details
1	Verify that AIP 13.1.3.x or later is currently installed.	Check that the $AIP_INSTALL environment variable is set and points to a valid AIP install directory. This should be the $AIP_INSTALL directory used when installing or patching to the currently installed version of AIP.
2	Verify that UNIX operating system is one of the listed operating systems .	Refer to "Server Operating Systems" on page 3-4
3	Upgrade RPAS to RPAS 13.1.2.45. Refer to the *Oracle Retail Predictive Application Server Installation Guide* for information.	▪ Change directories to RPAS home and execute rpaslogin.ksh to set $RPAS_HOME variable. $ cd <RPAS home> $ . ./rpaslogin.ksh ▪ Check that the $RIDE_HOME environment variable is set correctly. ▪ Check that $PATH includes $RIDE_HOME/bin and $RIDE_HOME/lib $ export PATH=$RIDE_HOME/bin:$RIDE_HOME/lib:$PATH **Note:** Ensure that $RPAS_HOME and $RIDE_HOME have read/write execute permission by running "chmod -R 775 $RIDE_HOME"
4	Verify your JAVA home is set properly, and that the $PATH includes $JAVA_HOME/bin	`$ export JAVA_HOME=<Java home location>` `$ export PATH=$JAVA_HOME/bin:$PATH`
5	Depending on the Operating System, modify your the appropriate environment variable to include the jre library files.	Either: ▪ LIBPATH (AIX), SHLIB_PATH (HP-UX) ▪ LD_LIBRARY_PATH (Linux, SunOS)
6	Verify the AIP 13.1.5 package.	▪ Check that $PACKAGEDIR is accessible. ▪ If it does not already exist (to support a previously applied patch), create a $PACKAGEDIR/aip/13.1.5/domainlist.txt which lists the full path of the master domain but does not list sub/local domains.

#	Step	Details
7	Verify domain	Perform the following: `$ domaininfo -d $(cat $PACKAGEDIR/aip/13.1.5/domainlist.txt) -apptag -terse` The result should reveal one of the following as the current version: ■ AIP: 13.0.2[.x] ■ AIP: 13.1.1[.x] ■ AIP: 13.1.2[.x] ■ AIP: 13.1.3[.x] **Note:** [.x] indicates a possible hot fix number, for example: 13.1.3.1.
8	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.
9	Backup environment.	Perform a backup of the current domain and RPAS environment 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.

AIP-RPAS Executables and Definitions Upgrade

This section provides the procedure to upgrade the AIP RPAS executables and definitions to AIP 13.1.5.

Note: This section does not patch the AIP RPAS domain since the -no_domain flag is used in rsp_manager call described in this section.

#	Step	Details
1	Clients who are patching AIP 13.1.5 must first back up their $RPAS_HOME/bin/aip_env_rpas.sh script.	This script 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.

#	Step	Details

2	Upgrade the RPAS executables and definitions.	Run one of the following commands from $PACKAGEDIR/aip/13.1.5/:
		For all platforms except Linux OS:
		`$ ./rsp_manager -install -sp <OS> -no_domain -log aip1313part1.log`
		For the Linux OS platform only:
		`$ ./rsp_manager.linux -install -sp <OS> -no_domain -log aip1313part1.log`
		In above command, <OS> must be one of:
		■ aix53
		■ aix61
		■ linux
		By running the command above, the following tasks are performed:
		■ Copies AIP 13.1.5 executables (programs, shared libraries, and resource XML files) from $PACKAGEDIR/aip/13.1.5/<OS>/rpas to $RPAS_HOME.
		■ Copies AIP 13.1.5 configuration definitions from $PACKAGEDIR/aip/13.1.5/<OS>/env/AIP_INSTALL to $AIP_INSTALL
		■ Compares the integrity of files in RPAS_HOME and RIDE_HOME, due to implicit default -validate flag in the AIP RPAS Executables and Definitions Upgrade Process.
		■ Generates a log file, aip1313part1.log, that can be searched for error keywords such as "error", "exception", and "<E".

3	Now that the $RPAS_HOME has been updated with this patch's contents, edit $RPAS_HOME/bin/aip_env_rpas.sh and insert custom values from the backup copy of aip_env_rpas.sh made in step 1.	This must be done before the 2nd rsp_manager call is made in "AIP-RPAS Domain Upgrade", since the rsp_manager part 2 call refers to the custom values in the aip_env_rpas.sh script.

AIP-RPAS Definitions Customizations Upgrade

If clients 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 13.1.5 RPAS configuration, perform the following procedure.

Note: The pre-existing configuration in $AIP_INSTALL was packaged as configuration_*.tar.Z (where * = current domain version from domaininfo output, for example, configuration_13.1.2.tar.Z) during the previous rsp_manager call, so that the previous configuration with any customizations would be preserved.

---

1. To extract the AIP 13.1.5 RPAS definitions configuration, execute the following command from $AIP_INSTALL:

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

2. 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.

3. Repackage the $AIP_INSTALL/configuration.tar:

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

AIP-RPAS Domain Upgrade

Perform the following procedure to upgrade your RPAS domains to AIP 13.1.5.

1. Run the following command to check your AIP domain path. This text file should contain your master domain, but no sub/local domains.

```
$ more $PACKAGEDIR/aip/13.1.5/domainlist.txt
```

2. Run rsp_manager to upgrade the domains using the combined 13.1.5 configuration and customized previous configuration.

Platform	Command
All platforms except Linux OS	`$ ./rsp_manager -install -sp <OS> -no_rpas -no_env -domain domainlist.txt -log aip1315part2.log`
Linux OS	`$ ./rsp_manager.linux -install -sp <OS> -no_rpas -no_env -domain domainlist.txt -log aip1315part2.log`

In above command, <OS> must be one of:

- aix53
- aix61
- linux

By running the command above, the following tasks are performed:

- Upgrades the AIP domain's configuration, including measure attributes and rules, to the AIP 13.1.5 configuration.
- Copies the existing AIP domain's interface directory to interface_13.1.5, and drops in a new interface directory corresponding with the current release's interface files. If the client has made supported customizations to any of the interface files, as described in the *Oracle Advanced Inventory Planning Implementation Guide*, these customizations must be re-introduced into the interface directory's configuration files.

- Generates a log file, aip1313part2.log, that can be searched for error keywords such as "error", "exception", and "<E".

3. Perform the following to verify the patch level of the RPAS domain:

```
$ domaininfo -d $(cat $PACKAGEDIR/aip/13.1.5/domainlist.txt) -apptag
```

The result should display the following as the current version:

AIP: 13.1.5

Note: The AIP 13.1.5 upgrade contains RPAS upgrades to the domain password policy. This policy may require users to modify their passwords at next login if they do not meet the password policy as described in the *Oracle Retail Predictive Application Server Administration Guide*.

If you have already applied the 13.1.3 patch then the upgrades are already installed.

Review AIP-RPAS Environment Variables

As part of the upgrade, examine the environment variables used by AIP RPAS to ensure they are up to date. If any of these environment variables are not up to date, edit the script where the environment variable is defined.

The current hierarchy of scripts which set environment variables, and the list of variables each defines, follows:

- retaillogin.ksh
  - rpaslogin.ksh (RPAS_HOME, PATH, <library path>*)
  - toolslogin.ksh (RIDE_HOME, JAVA_HOME)
  - jdbclogin.ksh (JDBC_HOME, CLASSPATH, OPENRDA_INI)
  - aiplogin.ksh (RPAS_TODAY, AIP_INSTALL, TEST_AIPDOMAIN)

Note: * Depending on the operating system, <library path> is either:

- LIBPATH (AIX)
- LD_LIBRARY_PATH (SunOS, Linux)
- SHLIB_PATH (HP-UX)

Internally Controlled Components

Internally controlled components and their environment variables, such as RPAS, Tools, JDBC and AIP, should be updated by the patching process. Values of these variables should be inspected to confirm they are current.

External Components

External components such as Java are not controlled by RGBU upgrade procedures. As part of an AIP upgrade, one prerequisite may be to first apply the appropriate RPAS upgrade. As part of that RPAS upgrade one prerequisite may be to first apply a new version of Java. Therefore, the setting of JAVA_HOME in the environment must be inspected to ensure that it is up to date, since the RPAS and AIP patches will not modify toolslogin.ksh to point to the new JAVA_HOME.

AIP-RPAS Manual Upgrades

This section is reserved for any patch-specific instructions that must be executed manually which the shell-script driven patching above is not able to automatically perform.

There are no manual updates required for patching from AIP 13.0.2.x or later to AIP 13.1.5.

Upgrading the AIP Oracle Components

There are basically three components that need to be upgraded for AIP Oracle part of AIP application.

1. AIPOnlineApp on OAS: Upgrading this component means installing the delivered EAR file on Oracle Application Server. This essentially replaces the existing EAR file.
2. AIP-Online Integration Files: Upgrading this component means replacing the entire integration folder (containing scripts, schema files, etc.) with the delivered integration folder. **Therefore it is strongly recommended to take a full back up of existing AIP integration folder in order to reduce the post upgrade time required for configuring and/or customizing integration scripts.**
3. AIP Oracle Database Schema: Upgrading this component means changing existing or creating new database objects and/or data in tables. Unlike the upgrade of first two components, this is not a replace type of upgrade. **Backing up of existing database schema is recommended as it helps in restoring the database in case of any patching failures and in reapplying any customizations.**

Upgrading AIP Oracle Database Schema

By upgrading the AIP Oracle database schema, your AIP Oracle installation data is upgraded to AIP 13.1.5. The upgrade script that is used for upgrading AIP Oracle database from 13.1.3 to 13.1.5 is called "upgrade.sql". This script executes the following other scripts.

1. Database change scripts used for altering, creating or deleting the structure of database objects like creating new tables, adding columns to existing tables, and so forth.
2. Data migration scripts such as new system parameters etc.
3. Scripts to create or replace AIP 13.1.5 stored procedures, functions and packages.

Customizations

Any customizations done on AIP stored procedures, database functions or database packages will need to be reapplied after upgrade.

Note: Back up the database schema before performing the following procedure.

---

1. Make sure the database connection is available on the machine where $PACKAGEDIR is located.
2. Backup the current database schema.

3. Change directories to where the schema upgrade patch is located and unpack it.

```
$ cd $PACKAGEDIR
$ unzip AIP13.1.5-db-upgrade.zip
```

4. To update the database schema to AIP 13.1.5, locate the upgrade.sql and execute it using following commands:

```
cd $PACKAGEDIR/aip/13.1.5/aix/online/db_patch
sqlplus schema_owner/password@database
SQL> SET FEEDBACK OFF
SQL> @upgrade.sql
SQL> EXIT
```

Troubleshooting

In the event of any failures while executing the upgrade.sql script, check the upgrade.log file. The upgrade.log.log file is created in the same directory as upgrade.sql script. Look for any customizations as possible reasons for errors in failed scripts. Once the errors are resolved, the upgrade script should be manually modified such that scripts that completed successfully are not executed again. This can be done with the help of upgrade.log file.

The modified upgrade.sql script should be executed again using the same set of commands as mentioned above.

In the event that the seq_system_paramater sequence gets out of sync, (due to some customizations in system_parameter table like records added without using sequence), then you can fix the sequence by performing the following.

```
cd $PACKAGEDIR/aip/13.1.5/aix/online/13.1.5
sqlplus schema_owner/password@database
SQL> select max( parameter_id ) from system_parameters;
```

returns an integer value, RETURNED_VALUE

```
SQL> drop sequence seq_system_parameters;
SQL> create sequence seq_system_parameters
start with <RETURNED_VALUE + 1>
MAXVALUE 999999999999999999999999999 MINVALUE 1
NOCYCLE CACHE 20 NOORDER;
```

Invalid AIP Database Objects

> **Note:** Consult your DBA in assisting with commands required for recompiling.

In case of invalid AIP database objects, recompile them in following order:

1. Recompile all invalid Functions
2. Recompile all invalid Views
3. Recompile all invalid package specs
4. Recompile all invalid package bodies.
5. Recompile all invalid procedures

When recompiling invalid package specs or invalid package bodies in previous steps 3 and 4 , the following sequence should be maintained:

1	AIP_UTIL
2	ALERTS
3	BATCH_VALIDATION
4	DEFAULT_ORDER_CYCLE
5	LOC_COPY
6	ORDER_EXPORTER
7	RETL_LOAD
8	AIP_PURGE_CUSTOM
9	AIP_PURGE
10	SUPPLIER_MINIMUM_SCALING
11	ORDER_SMOOTHING
12	ORDER_MERGE
13	OCS_VALIDATION
14	CONTAINER_SCALING
15	UI_VALIDATION

Upgrading AIPOnlineApp on OAS and AIP Oracle Integration Files

Both the "AIPOnlineApp on OAS" and "AIP Oracle Integration Files" components are upgraded using AIP-online-app-server installer provided with the patch. The installer first upgrades the AIPOnlineApp on OAS and then upgrades the AIP Oracle Integration files.

- Upgrading "AIPOnlineApp on OAS" component is equivalent to installing and configuring AIP 13.1.5 AIPOnlineApp EAR file on OAS.
- Upgrading "AIP Oracle Integration Files" component means replacing the entire integration folder (containing scripts, schema files etc) with the delivered integration folder. **So a full back up of existing integration folder is required before upgrade. Configuration changes and any customizations will need to be reapplied after upgrade.**

The instructions for upgrading the "AIPOnline App of OAS" and "AIP Oracle Integration Files" components are the same as installing them. For installation instructions, follow the instructions described in Chapter 4, "Installing AIPOnlineApp on OAS 10.1.3.4" and in Chapter 5, "Installing the AIP Integration Components".

When reading the *Oracle Retail Advanced Inventory Planning Installation Guide*, note the following:

- The AIP-online-appserver-installer.zip file referenced in the *Oracle Retail Advanced Inventory Planning Installation Guide* is provided in the patch under this location:

  $PACKAGEDIR/AIP-online-appserver-installer.zip

If...	Then skip the sections on...	Located in ...
Enterprise user and online users are already created	"Creating the AIP Oracle Enterprise" "Creating AIP Oracle Users"	Chapter 4, "Installing AIPOnlineApp on OAS 10.1.3.4"
RETL is already installed	"Installing RETL"	Chapter 5, "Installing the AIP Integration Components"

4

Installing AIPOnlineApp on OAS 10.1.3.4

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

Before proceeding, you must install Oracle Application Server 10g 10.1.3.4. AIP Oracle is deployed to an OC4J instance within the Oracle Application Server 10g installation. It is assumed that Oracle RDBMS 11g has already been configured and loaded with the appropriate AIP Oracle schema for your installation.

Creating a New OC4J Instance for AIP Oracle

Perform the followingprocedure to create a new OC4J instance for the AIP Oracle installation. If the application is being installed to a clustered OAS, then create an instance for each node of the server. All such instances should be under the same OC4J Group.

> **Note:** If you are deploying to an existing OC4J instance, you can skip this step since your environment is already prepared for installing AIP Oracle.

1. Log in to the server which is running your OracleAS 10g installation. Set your ORACLE_HOME environment variable to point to this installation.
2. Choose a name for the new OC4J instance.

   Example: aiponline_oc4j
3. Create this OC4J instance as documented in the *Oracle Retail Application Server Administrator's Guide*.

   Sample Syntax:

   ```
   $ORACLE_HOME/bin/createinstance -instanceName aiponline_oc4j
   ```
4. When prompted for the oc4jadmin password, provide the same administrative password you used for the Oracle Application Server installation. All OC4J instances running Oracle Retail applications must have the same oc4jadmin password.
5. Start the OC4J instance. You can do this through the Enterprise Manager Web interface, or on the command line using the opmnctl utility using the following sample syntax.

Sample Syntax:

```
$ORACLE_HOME/opmn/bin/opmnctl startproc
process-type=aiponline_oc4j
```

6. Verify that the OC4J instance was fully started. If you are using the Enterprise Manager Web interface, the instance should have a green arrow indicating that it is running. If you are using the command line, verify that the instance has a status of "Alive" as shown in the following example.

   Sample Syntax:

   ```
   $ORACLE_HOME/opmn/bin/opmnctl status
   ```

Note: If you are unable to start the OC4J instance after several attempts, try increasing the startup timeouts in ORACLE_HOME/opmn/conf/opmn.xml. If that does not help, consult the Oracle Application Server documentation for further assistance.

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 OracleAS 10g installation. Create a new staging directory for the AIP Oracle application distribution (AIP-online-appserver- installer.zip).

Example: $ORACLE_HOME/j2ee/aiponline_oc4j/aiponline_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 JAVA_HOME environment variables. ORACLE_HOME should point to your Oracle Application Server 10g installation. JAVA_HOME should point to $ORACLE_HOME/jdk. The AIP Application Installer should set the JAVA_HOME variable during the installation process.

Running the AIP Oracle Application Installer

Once you have an OC4J 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>/AIPOnlineAppServer131 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 aip131install--app.<timestamp>.log where <timestamp> represents the date and time the installation was performed. This file is located in the <INSTALL_DIR>/AIPOnlineAppServer131 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

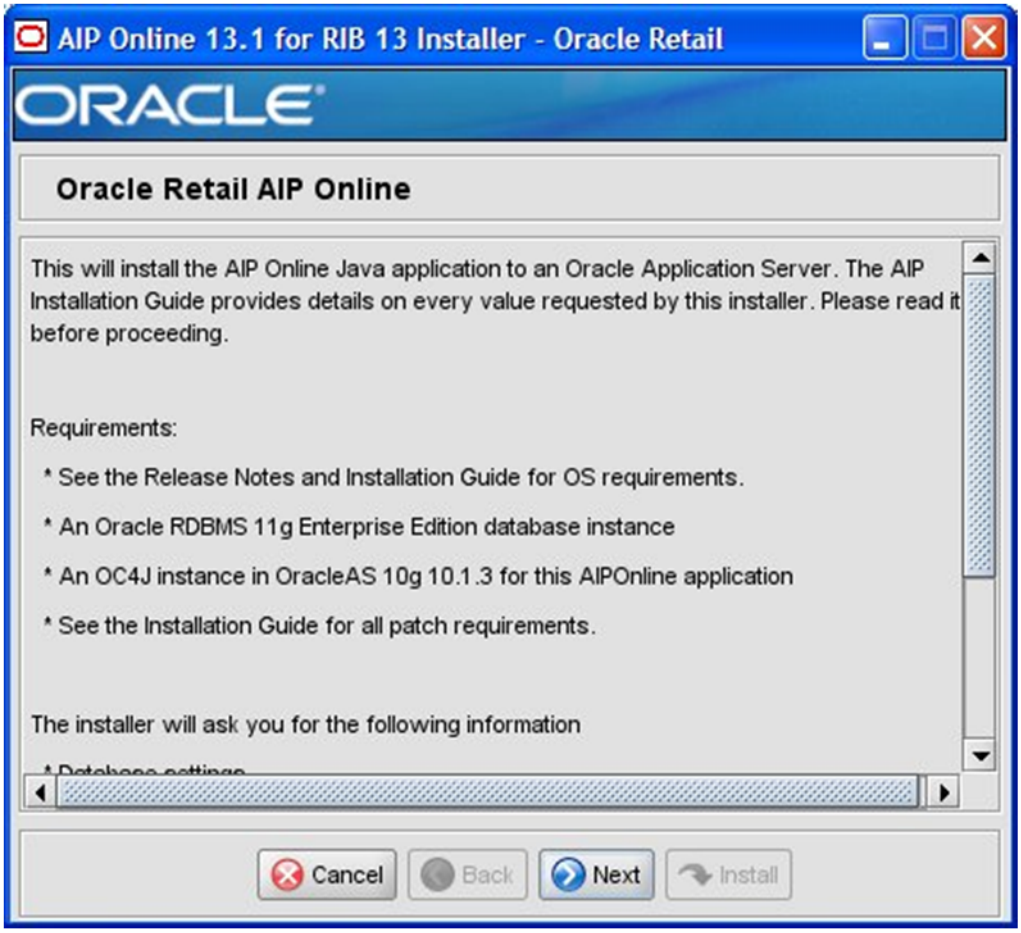
In both cases, the requested information is identical. In the GUI, you may be shown a checkbox to signal whether you want a component installed; in text mode, you will be prompted for a response of *True* or *False*.

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.

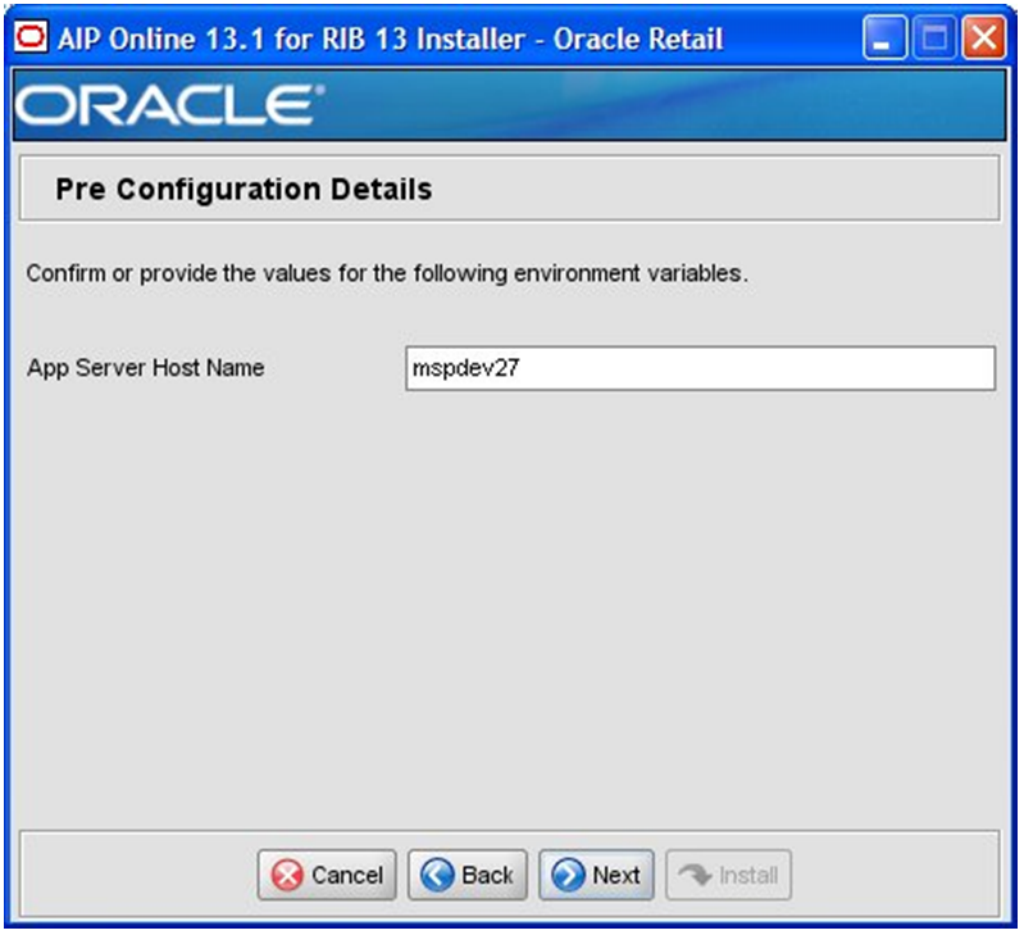
The AIP Oracle Installer screen appears and displays the components that will be installed during installation process, as well as the required components.

Figure 4–1 AIP Oracle Installer Screen



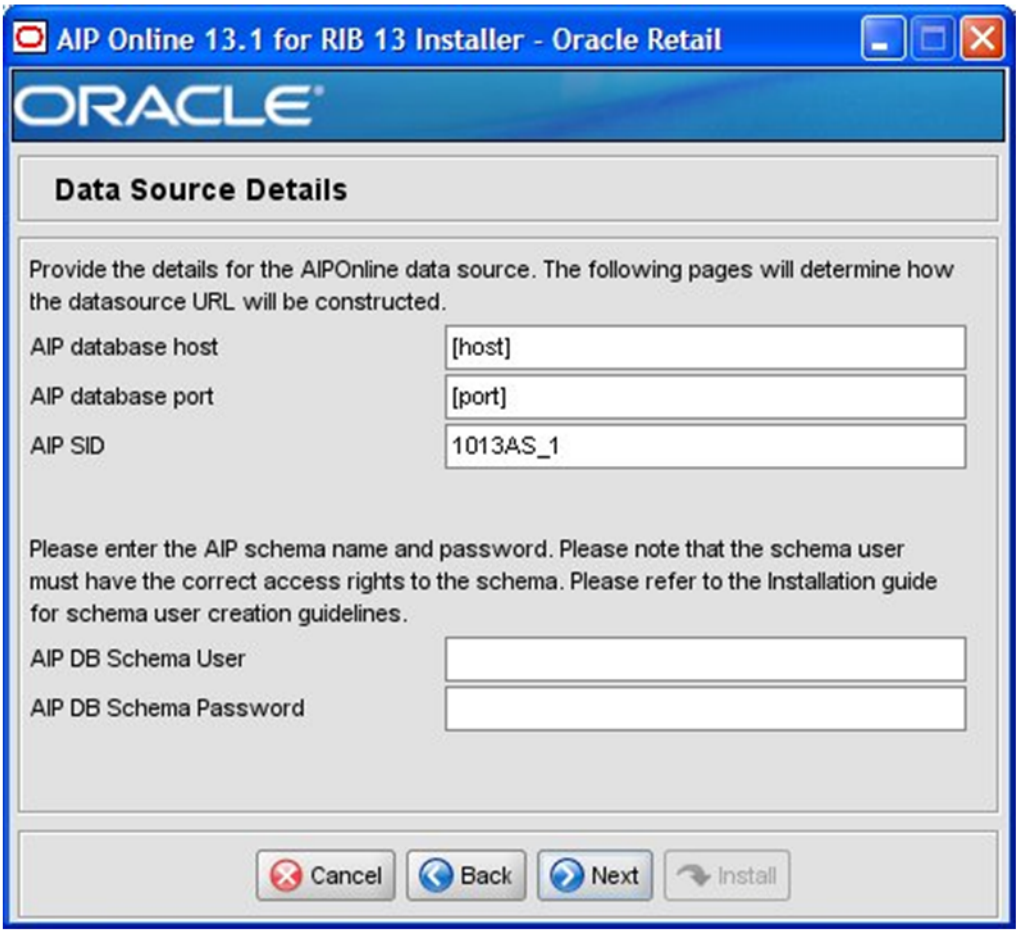
4. Click **Next** to continue. The Pre Configuration Details screen appears.

Figure 4–2 Pre Configuration Details Screen



5. Enter the application server name where AIP Oracle is being deployed and click **Next**. The Data Source Details screen appears.

Figure 4–3 Data Source Details Screen

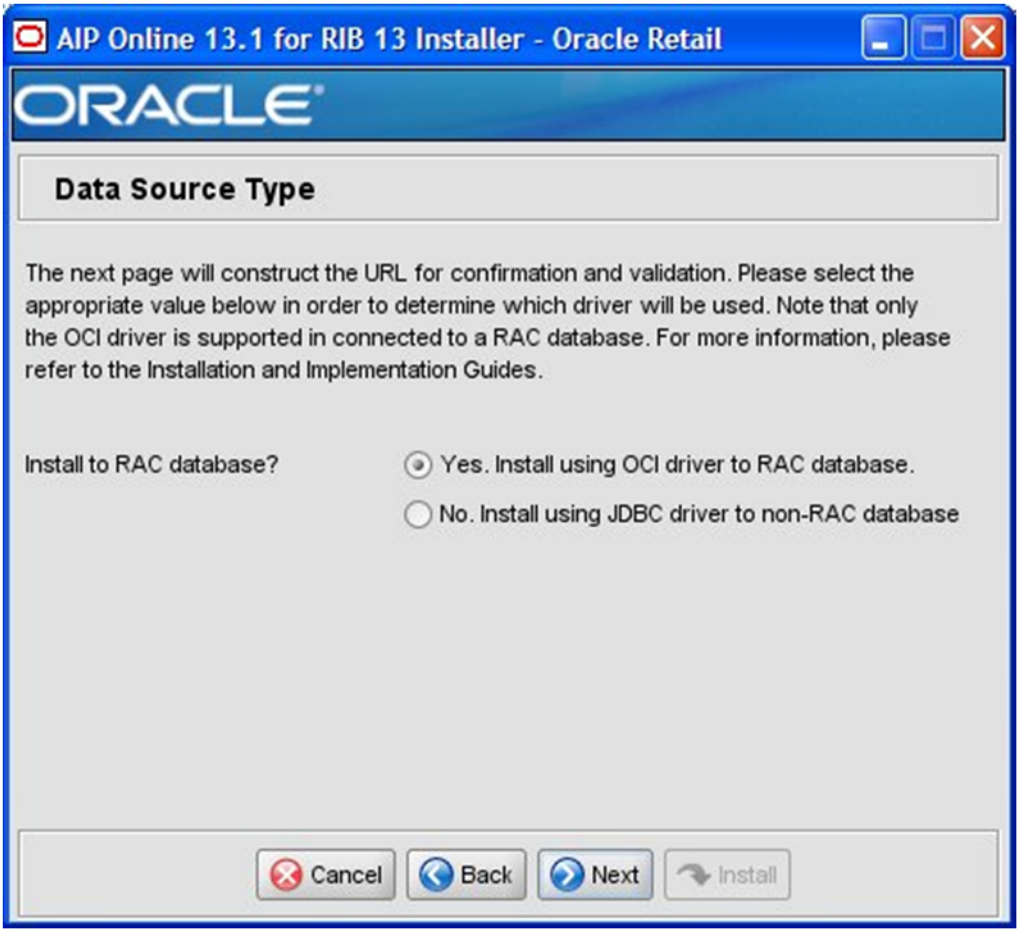


6. Enter the following information and click **Next**.

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.

The Data Source Type screen appears.

Figure 4–4 Data Source Type Screen



7. 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 4–5, "Example of Data Source Confirmation Screen for RAC database"
   - Figure 4–6, "Example of Data Source Confirmation Screen for non-RAC database"

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

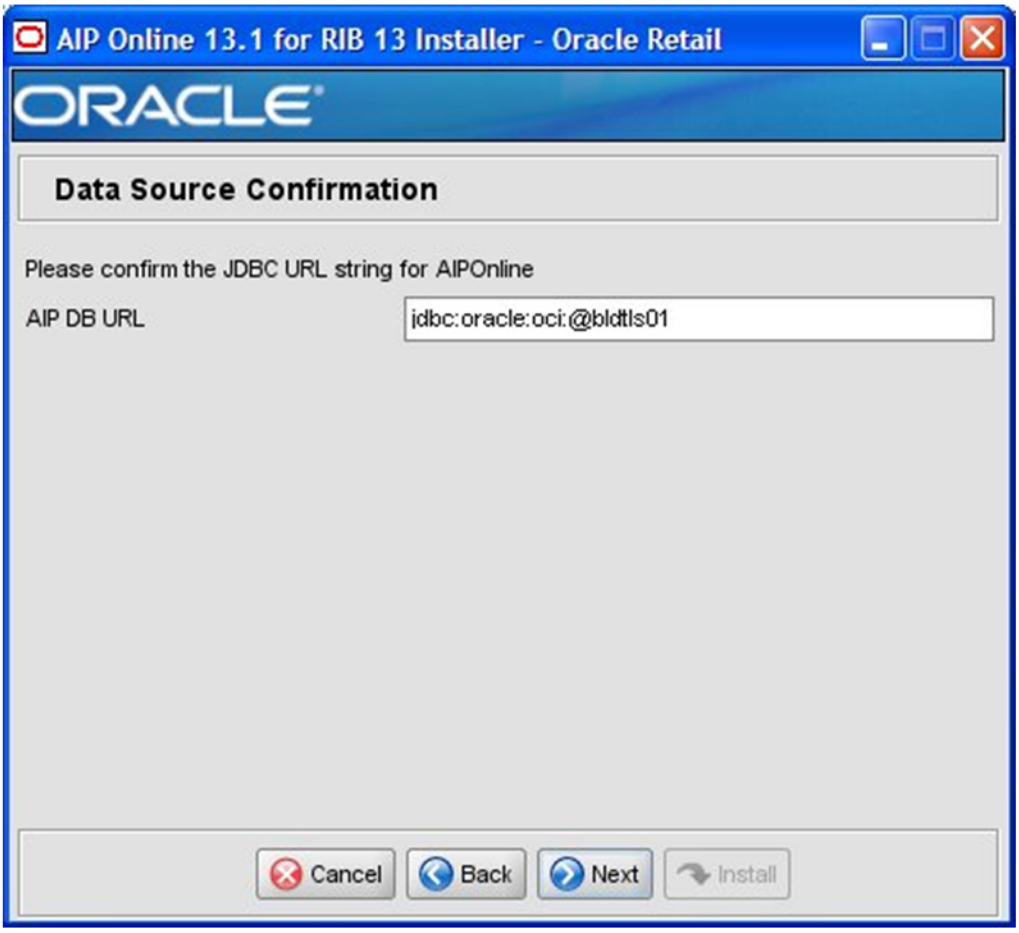
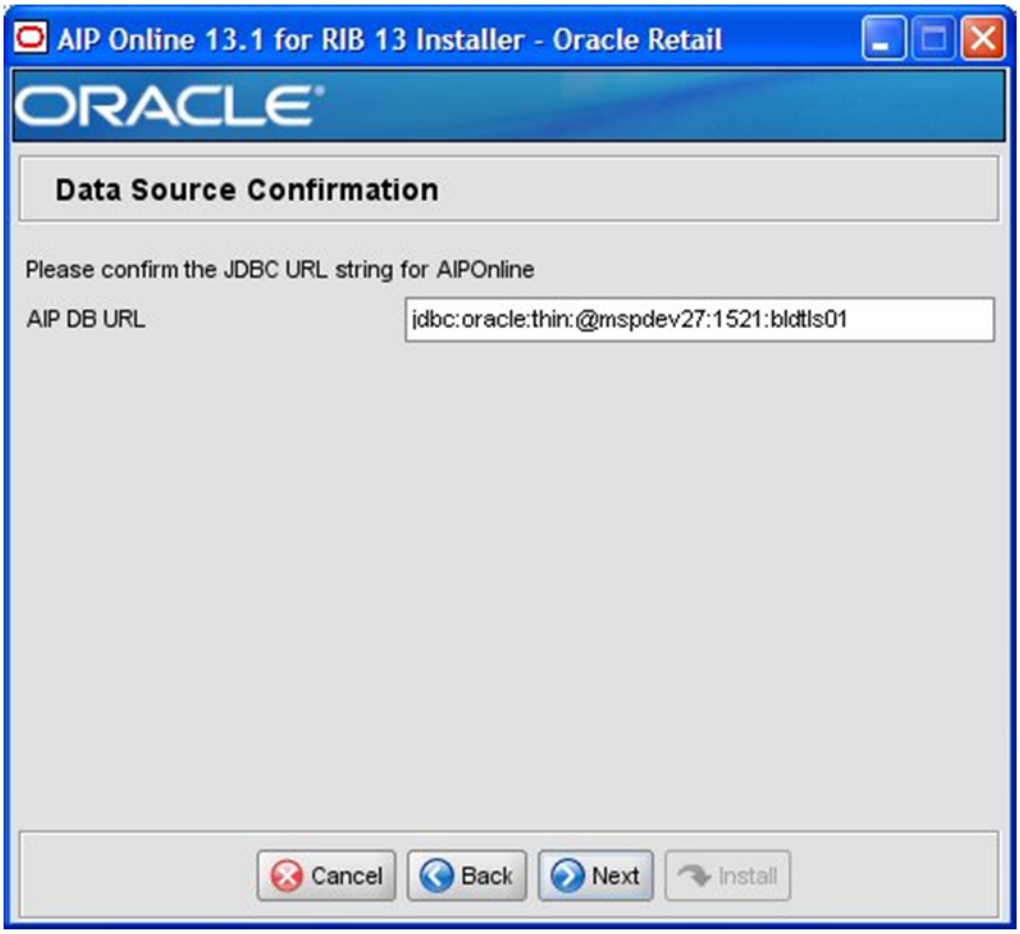


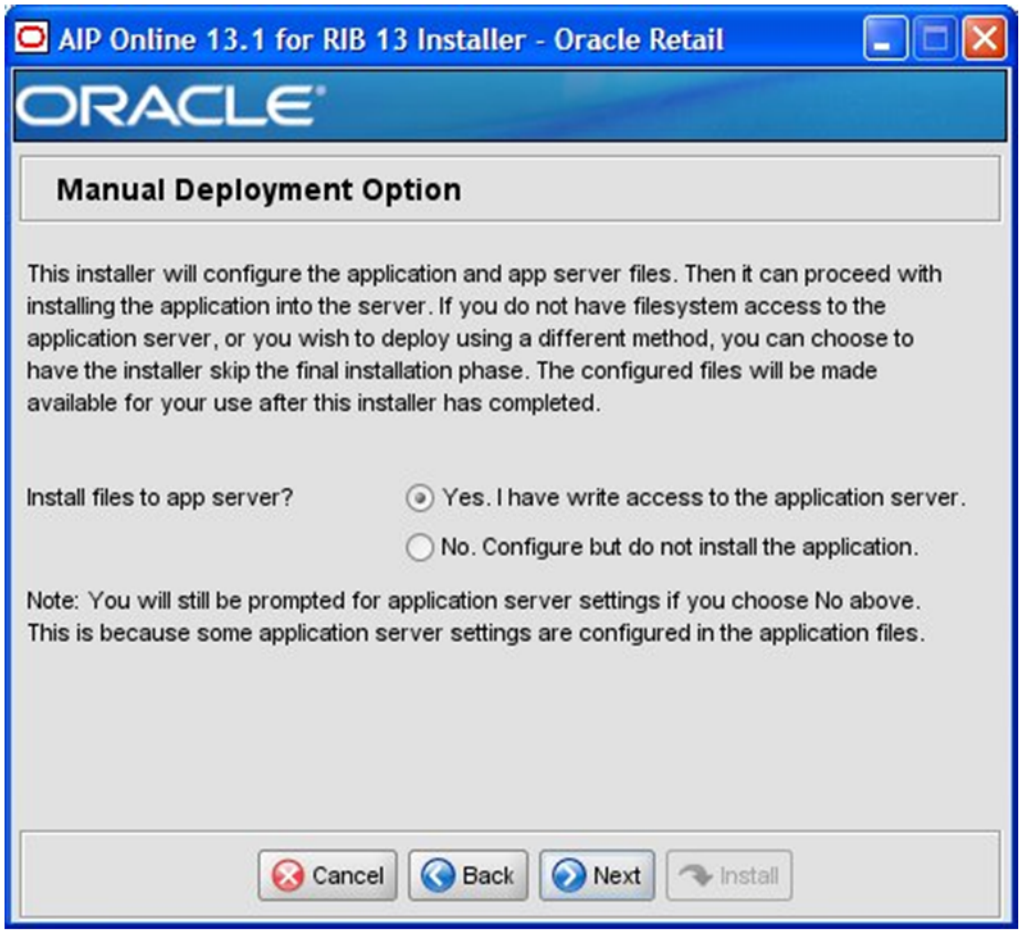
Figure 4–6 Example of Data Source Confirmation Screen for non-RAC database



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.

8. Verify the AIP JDBC URL string is correct and click **Next**. The Manual Deployment Options screen appears.

Figure 4–7 Manual Deployment Option Screen



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

   If you have write access to the application server, select **Yes**. The Installer will install the necessary files to the ORACLE_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, select **No**. The Installer will perform all the necessary configuration changes within the staging directory, but it will not install any files to the ORACLE_HOME. If you select **No**, you will need to manual complete the installation process. Even if you select **No**, you will still need to complete the subsequent Installer screens.

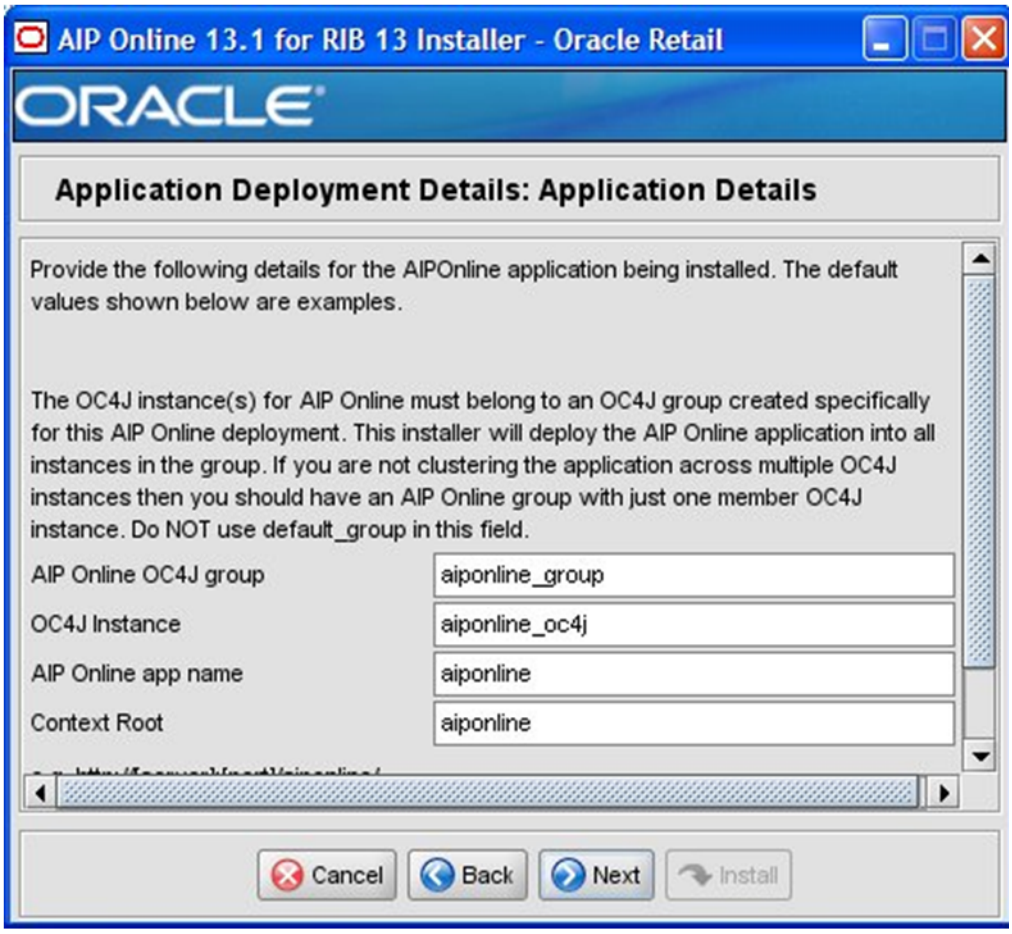
   The Application Deployment Details: Server Details screen appears.

Figure 4–8 Example of Application Deployment Details: Server Details Screen

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

Field	Description
OPMN Request Port	Enter the OPMN request port found in $ORACLE_HOME/opmn/conf/opmn.xml file. Example of Port Definitions in opmn.xml File: `<port local="6100" remote="6200" request="6003">`
OC4J Admin User	Enter the OC4J admin user name.
OC4J Admin Password	Enter the OC4J admin user password.

Figure 4–9 Application Deployment Details: Application Details Screen



11. Enter the following information and click Next:

Field	Description
AIP Oracle OC4J Group	Enter the group name of the OC4J instance where AIP Oracle application will be deployed.
OC4J Instance	Enter the name of the OC4J instance where AIP Oracle application will be deployed.
AIP Oracle App Name	Enter the name that will be used by the application server to identify the AIP Oracle application.
Context Root	Enter the context root that the application will be using. For example, http://myhost:7777/aiponline where aiponline represents the context root required for this field.
HTTP Port	Enter the HTTP port found in the application URL. For example, http://myhost:7777/aiponline where 7777 represents the HTTP Port required for this field.

The AIP Oracle Installation Directory screen appears.

Figure 4–10 AIP Oracle Installation Directory Screen

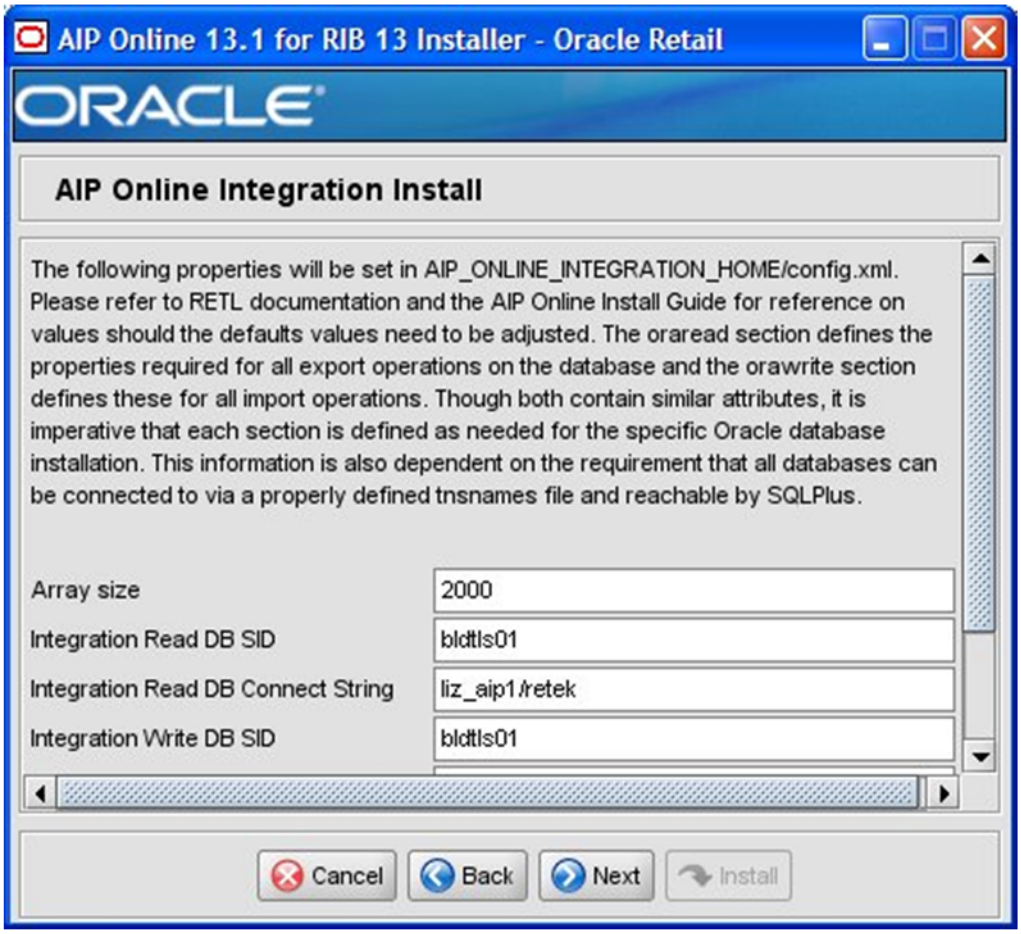
12. Enter the directory where AIP Oracle will be installed and click **Next**. The AIP Oracle Integration screen appears.

Figure 4–11 AIP Oracle Integration Screen

13. 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. The AIP Oracle Integration Install screen appears.

Figure 4–12 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.

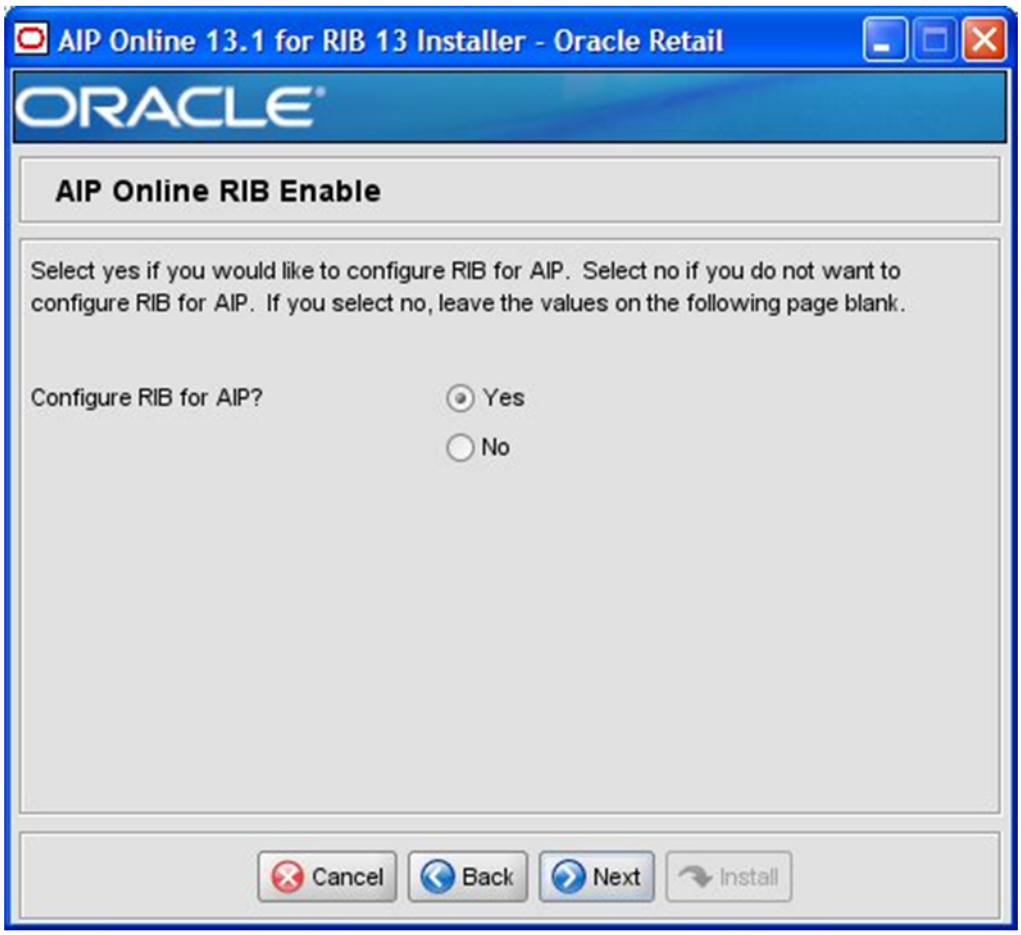
14. Enter the following information in the AIP Integration Install screen and click **Next** to continue.
    - Array Size
    - Integration Read DB SID
    - Integration Read DB Connect String
    - Integration Write DB SID
    - Integration Write DB Connect String
    - Integration Write Method
    - Integration Online Schema Owner

    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.

    The AIP Oracle RIB enable screen appears.

15. ndicate whether or not you would like to configure RIB for AIP at this point in time. If you do not, refer to the *Oracle Retail Advanced Inventory Planning Operations Guide* in manually configuring RIB for AIP.

Figure 4–13 Enable RIB for AIP Screen

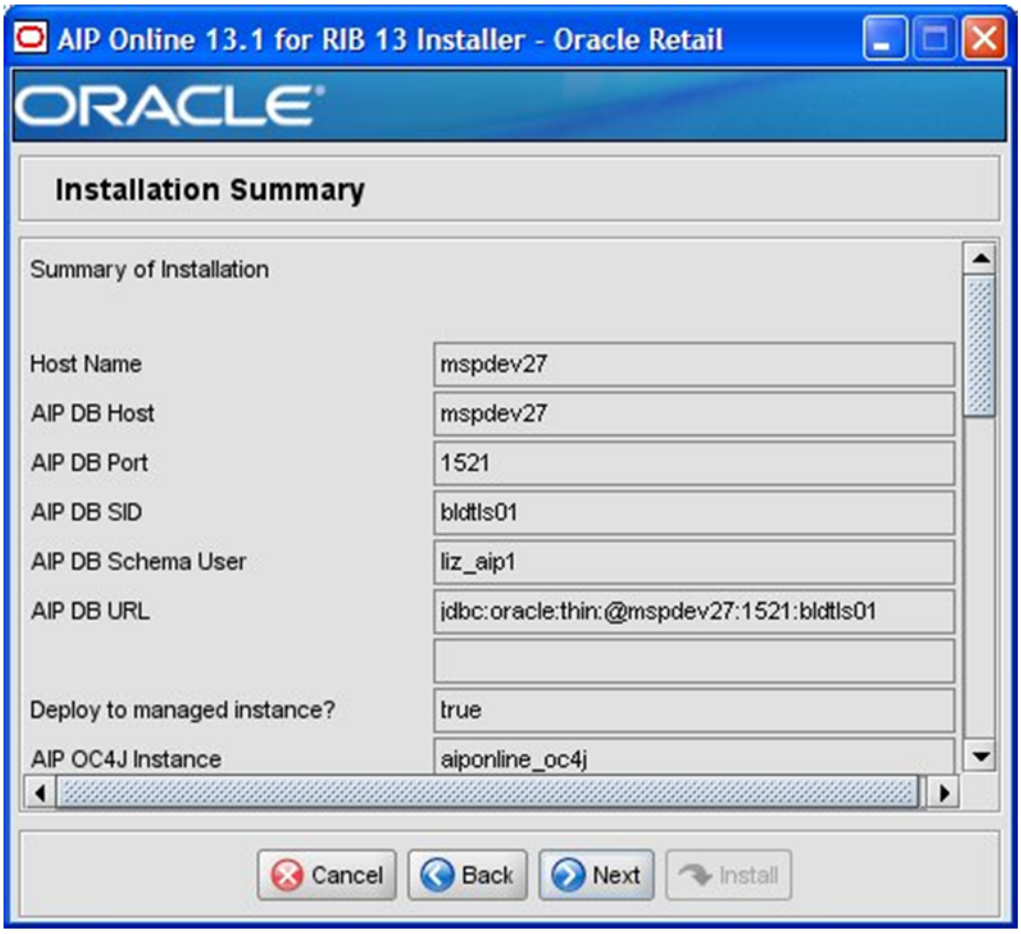


16. Enter the following information and click **Next**.

Field	Description
RIB Server Name	The server name where RIB for AIP is installed.
RIB OPMN Request Port	The OPMN request port where RIB for AIP is installed.
RIB OAS Instance Name	The name of the OC4J instance on the OAS server where RIB for AIP is installed.
RIB Username	Enter the OC4J admin user name for the RIB instance where RIB for AIP is installed.
RIB Password	Enter the OC4J admin user password for the RIB instance where RIB for AIP is installed.

The installation summary screen appears

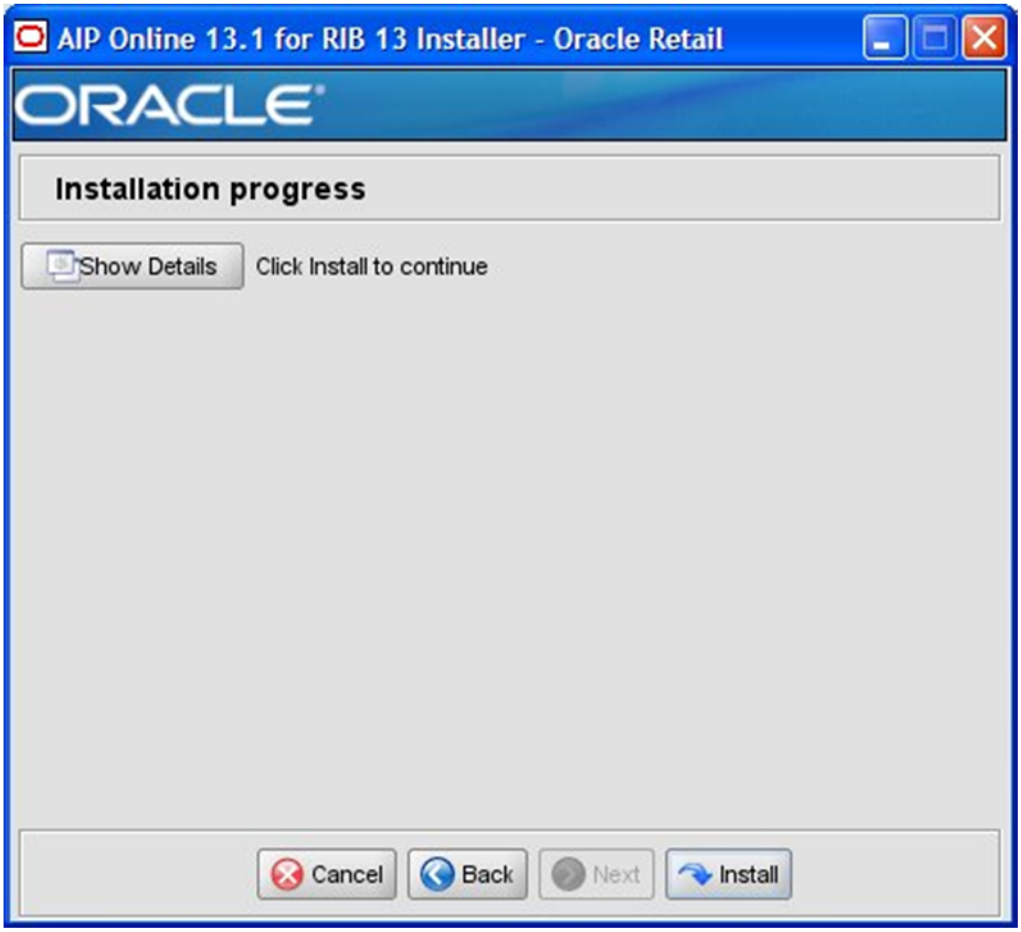
Figure 4–14 Installation Summary Screen



17. Verify the values in installation summary screen. If everything looks okay, click **Next**.

    The Installation Progress screen appears.

Figure 4–15 Installation Progress Screen



18. 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.

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

20. 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 aip131install-app.<timestamp>.log where <timestamp> represents the date and time the installation was performed. This file is located in the <INSTALL_DIR>/AIPOnlineAppServer131 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 6-2 of this guide for instructions on silent mode.

Refer to the "Troubleshooting" on page 6-3 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/AIPOnlineIntegration131 directory to the appropriate destination. Refer to Chapter 6, "Installation Questions, Reinstallation, and Troubleshooting" 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 5, "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>/AIPOnlineAppServer131/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>/AIPOnlineAppServer131/aip/configured-output/ into your application server installation.
2. Deploy the AIPOnlineApp EAR file using the Enterprise Manager Web interface.

   The configured EAR file is located at:

   ```
   <I:NSTALL_
   DIR>/AIPOnlineAppServer131/aip/ear/AIPOnlineAppForRIB11.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>/AIPOnlineAppServer131/ant.install.properties file by the Installer for later reference.

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:7777/aiponline/`

Starting and Stopping AIP Oracle

AIP Oracle can be restarted by using the Enterprise Manager to restart the OC4J instance that contains AIP Oracle.

Oracle Configuration Manager (OCM)

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: 835024.1)

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

OCM Documentation Link:

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

Configuring the AIP Oracle Application

A setup page is used to configure the properties files for AIP Oracle. Perform the following procedure to configure the AIP Oracle Application. If the application is being installed to a clustered OAS, then this procedure needs to be performed on each node of the RAC OAS.

1. Load the new AIP Oracle application by entering the URL in a Web browser, as shown in the following example.

   Sample Path Syntax: http://<server>:<port>/<contextroot>

   Replace the text in brackets <>with the appropriate information described in the following example.

   Example: `http://server:7778/aiponline`

Replace	With
<server>	The name or IP address of the server where OAS is running.
<port>	The OAS HTTP port
<contextroot>	The context root specified in the installer

   A page displaying a link to the setup page appears.

2. Click the setup page link. The AIP Oracle Setup page appears. Configuration and Data directories are created by the AIP Oracle Application Installer.
3. Using the Install directory specified in the installer, use the following values.

Directory	Value	Example
Configuration Directory	INSTALL_DIR/config	/u00/oas/aip131/config
Data Directory	INSTALL_DIR/data	/u00/oas/aip131/data

4. Under Application Licensing, set the License file field to the license-aip.bin file as shown.

File	License file
Value	INSTALL_DIR/AIPOnlineAppServer/license-aip.bin
Example	/u00/oas/aip131/AIPOnlineAppServer/license-aip.bin

5. Under Database setup, set the following values in the fields provided.

Field	Value	Example for standard, non-clustered database is:	Example for clustered database is:
Database option	Choose whether this is a standard non clustered database or clustered database	Standard, non-clustered database	Clustered database
Database type	Enter Oracle	Oracle	Oracle
Database URL	This is only enabled if clustered database is selected.		jdbc:oracle:oci@prod_db1
Database name	This field is enabled only when selected database option is "Standard non- clustered database". Enter the Oracle database SID name.	prod_db1	
Username	Enter the Oracle AIP schema owner and password.	aip130	aip130
Password	Enter the Oracle AIP schema owner and password.	YourPassword	YourPassword
Network host	This field is enabled only when selected database option is "Standard non- clustered database". Enter the IP address or name of server where the Oracle database is running.	dbserver	
Port Number	This field is enabled only when selected database option is "Standard non- clustered database". Enter the Oracle database port number.	1521	
Connection Pool size	Used for limiting the maximum number of concurrent database connections. In some ways, this parameter also controls the number of concurrent users supported by AIP Oracle.	40	40

6. Under E-mail setup, retain the default settings for the following fields as this version of AIP Oracle does not provide e-mail functionality:

Field	Example
External Host Name	localhost:http_port
E-mail From Address	admin@server.com
SMTP Mail Server	localhost

   The AIP Oracle Setup: Part II: confirm settings page appears if no configuration errors were encountered.

7. Verify that all settings are correct. If any values are incorrect, click the Back button in the Web browser to go to the previous page and make the proper adjustments. If the settings are correct, click Next.

   The AIP Oracle Setup: Part III: installing page briefly appears, followed by the AIP Oracle: Part IV: status page. A message appears stating that the installation was successful and informs you to restart the application server to continue configuring AIP Oracle.

8. Review the installation log to ensure that no errors were encountered during the installation process.

9. If the application will NOT connect to the database as the schema owner, then perform the following:

   Navigate to <INSTALL_DIR>/config directory and add a line within the db.properties file:

   common.prop.oracle.schema=<schema name>

   Example: common.prop.oracle.schema=aip13owner

   Note: This line should be added right above the following line in the db.properties file: common.prop.user=<schema user>/<password>.

10. Perform the following steps to restart the AIP Oracle Application from OAS Enterprise Manager and apply the AIP Oracle configuration changes.

Step	Direction
a.	Log in to OAS Enterprise Manager console.
b.	Click on the instance that is hosting the AIP Oracle application.
c.	Select the Applications tab.
d.	Select the checkbox to the left of the AIP Oracle application.
e.	Click **Stop**. A Confirmation page appears.
f.	Click **Yes**. The Application tab appears with AIP Oracle application stopped.
g.	Make sure the checkbox to the left of AIP Oracle application is still selected and click **Start**. A confirmation page appears.
h.	Click **Yes**.

   The AIP Oracle application restarts.

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: Part IV "Step 10." on page 4-23 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. Enter *admin* in User Name field and *admin* in the Password field to log on to the System Administration page. These are the default system administrator user name and password. 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

Field	Description	Example
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	aip131online
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.	aip131online

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	aip131online
Retype New Password	aip131online
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.

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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 13.1.5. 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
```

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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

This section describes reinstallation options.

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 6-1 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 6-2 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)