

Oracle® Retail Advanced Inventory Planning
Installation Guide
Release 12.0

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Preface

Oracle Retail Installation Guides contain the requirements and procedures that are necessary for the retailer to install Oracle Retail products.

Audience

This Installation Guide is written for the following audiences:

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

Related Documents

For more information, see the following documents in the Oracle Retail Advanced Inventory Planning Release 12.0 documentation set:

- Oracle Retail Advanced Inventory Planning Release Notes
- Oracle Retail Advanced Inventory Planning Data Management Online - Online Help
- Oracle Retail Advanced Inventory Planning Data Management Online 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
- Oracle Retail Advanced Inventory Planning Operations Guide
- Oracle Retail Advanced Inventory Planning Implementation Guide
- Oracle Retail Advanced Inventory Planning Administration Guide
- Oracle Retail Advanced Inventory Planning Warehouse Replenishment Planning User Guide
- Oracle Retail Advanced Inventory Planning Store Replenishment Planning User Guide

Customer Support

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

When contacting Customer Support, please provide:

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

Conventions

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

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

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

[A hyperlink appears like this.](#)

Introduction

About the AIP Installation Process

This document provides the installation instructions for Advanced Inventory Planning™ (AIP) version 12.0 GA. This release is being made available on the AIX and SunOS UNIX operating systems.

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 provides detailed instructions for how to install an AIP 12.0 GA solution. The AIP installation consists of the following components:

- The Oracle® Retail Predictive Applications Server (RPAS) version 12.0.4 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 12.0 GA solution appear in the following chapters of this document.

Before you begin installing AIP, you should have read the RPAS Installation Guide. Additional documentation may be required during the installation process and is referenced where applicable.

Please 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.

Preparing for Installation

Package Contents

A complete AIP 12.0 solution is delivered in the files listed below, which can be obtained from <http://edelivery.oracle.com>:

- AIP 12.0 Media Pack
 - RPAS 12.0.4 Media Pack
1. Download the files and unpack the **AIP Media Pack**. The media pack contains an AIP 12.0 zip file, which contains the following files.
 - AIP-12.0.installer.zip
 - AIP-12.0-online-appserver.zip
 - AIP-12.0-online-database.zip
 - AIP-12.0-online-integration.zip
 - RPAS-12.0.4.zip
 - AIP-12.0-doc.zip
 2. Verify that all files listed above appear in the AIP Media Pack.

Installation Setup

Preparing Your Windows Workstation

1. Ensure the following ZIP files are located on the Windows workstation where the RPAS Client will be installed:
 - AIP-12.0-doc.zip – This ZIP file contains this AIP Installation Guide as well as other documentation to support AIP.
 - RPAS-12.0.4.zip – This ZIP file contains the RPAS documentation within the DOCS directory and the Windows client-side RPAS files that need to be installed in the CDROM\Clients.
2. Unpack the AIP-12.0-doc.zip documentation package.
3. Unpack the RPAS-12.0.4.zip documentation package. The AIP installation will require only a subset of the RPAS documentation.

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.
 - RPAS-12.0.4.zip – This ZIP file contains the RPAS installation files.
 - AIP-12.0-online-appserver.zip – This ZIP file contains the AIP 12.0 Online EAR file and binary license file for AIP Online.
 - AIP-12.0-online-dbserver.zip – This ZIP file contains the AIP 12.0 Online Oracle schema database files.
 - AIP-12.0-online-integration.zip – This ZIP file contains the AIP 12.0 Online integration files to exchange information between AIP Online, RPAS, and RMS (or an external system).

Some of these files will be unpacked as part of the RPAS 12.0.4 installation instructions.

Note: As the RPAS-12.0.4.zip file contains both client and server-side files, it must be copied to both the Windows and UNIX machines.

Installation Overview

To install AIP Online, follow the instructions in Chapters 3 through 6. To install AIP Batch, follow the instructions in Chapter 7.

Note: The AIP Online (Chapters 3 through 6) and Batch (Chapter 7) installations are mutually exclusive.

AIP Online Requirements

Hardware and Software Requirements

Advanced Inventory Planning (AIP) Online is a Web-based application. Its client-side code runs in a Java Applet container through a Web browser, while its server-side code runs in a Java Servlet container and accesses an Oracle Database server.

Database Server

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

- UNIX based OS certified with Oracle 9i release 2 (v. 9.2.0.x) Enterprise Edition. Options are AIX 5.3 and Solaris 9
- Oracle 9i release 2 (v. 9.2.0.x) Enterprise Edition

Application Server

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

- UNIX based operating system certified with WebSphere 5.1.1. Available operating systems are AIX 5.3 and Solaris 9.
- IBM WebSphere Application Server version 5.1.1.

Client PC and Web Browser Requirements

Client PC Requirements

- Windows 2000 or 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

Browser Requirements

- Microsoft Internet Explorer 5.5 or higher
- Sun Java Runtime Environment (JRE) plug-in 1.4.2_10

Installing the AIP Online Database Server Components

Creating a UNIX User Account for Oracle and Retek

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
retex – dev group

Note: The `oracle` account is used to create the Oracle 9i database. The `retex` account is the owner of the AIP Online files that reside on the UNIX server.

Creating a Staging Directory for AIP Online Database Files

1. Log on to the UNIX server as the newly created `retex` user and determine where the AIP Online database files will be installed. There should be a minimum of 1MB disk space available for the database installation files.
2. Copy the `AIP-12.0-online-dbserver.zip` file from the CDROM directory to the newly created staging directory.
3. Change directories (`cd`) to the staging directory and extract the `AIP-12.0-online-dbserver.zip` file. This location is referred to as `DBINSTALL_DIR`.

Creating the Oracle 9i Database

1. Install Oracle 9i release 2 with the `oracle` UNIX account and apply the latest patch set.
2. Create a 9i database.
Refer to Appendix: Sample Oracle 9.2.0.x Database Creation Script in this document for a sample database creation script and sample `init.ora` files. These samples are stored in the following location:
`DBINSTALL_DIR/AIPOnlineDBServer120/samplefiles`
If these scripts are not used as a guide, a system tablespace of 500MB is required for each installation of the AIP Online schema.
3. Create the `retex_data` tablespace and the `retex_index` tablespace.
The size of these tablespaces will vary from client to client. For the initial installation, tablespaces of 500MB are recommended.

Creating AIP Online Schema Owner

A script called `create_user.sql` in `DBINSTALL_DIR/AIPOnlineDBServer120/utility` can be used to create the schema owner. This script will prompt you for schema owner name, password, and a temporary tablespace. This script should be run as `sys`.

1. Create the Oracle db user that will be used for the AIP Online 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 Online 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 Online Schema Owner>`, which serves as the owner of the database objects, the following permissions:

```
SQL> grant connect, resource to <AIP Online Schema Owner>;  
SQL> alter user <AIP Online Schema Owner> quota unlimited on retek_data;  
SQL> alter user <AIP Online Schema Owner> quota unlimited on retek_index.
```

Creating the AIP Online Tables

1. Change directories (`cd`) to `DBINSTALL_DIR/AIPOnlineDBServer120/ddl`.
2. Log on to sqlplus as `<AIP Online Schema Owner>` and run the following script:

```
SQL> @aip120.sql
```
3. Check the log file, `aip120.log`, for errors.

Inserting the AIP Online Database Objects

1. Change directories (`cd`) to `DBINSTALL_DIR/AIPOnlineDBServer120/aip`.
2. Log on to sqlplus as `<AIP Online Schema Owner>` and run the following script:

```
SQL> @aip120dbo.sql
```
3. Check the log file, `aip120dbo.log`, for errors.

Inserting the AIP Online Seed Data

1. Change directories (`cd`) to `DBINSTALL_DIR/AIPOnlineDBServer120/sqlplus`.
2. Log on to sqlplus as `<AIP Online Schema Owner>` and run the following script:

```
SQL> @aip120ctl.sql
```
3. Check the log file, `aip120ctl.log`, for errors.

Installing AIPOnlineApp

AIP 12.0 is packaged as an EAR file, AIPOnlineApp.ear. Install the AIPOnlineApp.ear file on the J2EE application server according to the vendor's documentation.

This chapter contains the typical steps for deploying an EAR file in WebSphere Application Server (WAS) version 5.1.1, assuming that WAS 5.1.1 is currently installed.

Note: The following patch **MUST** be applied to the WebSphere Application Server 5.1.1 for the AIP Online application to work properly:

Patch: PQ93388

URL: <http://www-1.ibm.com/support/docview.wss?rs=0&uid=swg24007848>

Note: In the event that a previous version of the AIP Online application is already installed on the WAS, AIP Online will need to be stopped and uninstalled before you install version 12 of the AIP 12.0 Online application. The existing data source and J2C Authentication Data Entry in the WAS can be re-used for the AIP 12.0 Online application installation (assuming these values remain unchanged for the AIP 12.0 schema). Any customizations made to previously installed version(s) of AIP Online application will need to be manually replicated in AIP 12.0 online application.

Required WebSphere Application Server (WAS) Configurations

The following AIP WAS installation configurations have been tested. You are required to use one of these configurations when deploying the AIP Online application. Alternate configurations are not supported.

1. AIPOnlineApp and RIBforAIP are installed on separate WAS instances on separate physical servers.
2. AIPOnlineApp and RIBforAIP installed on separate WAS servers within a single WAS instance.

RIBforAIP installation/configuration is required to integrate RMS 11.0.10 with AIP 12.0. For RIBforAIP installation and configuration instructions, refer to Chapter 6 in the Retail Integration Bus 11.1 Installation Guide (rib-111-ig).

UNIX (Sun Solaris and AIX) Requirements

The Oracle 9.2.0.7 classes12.jar driver file is required for AIP 12.0. This file can be obtained from the Oracle Technology Network Web site, and must be copied to a staging directory on the Web server where WAS 5.1.1 is installed. The classes12.jar driver file may also be copied from the Oracle RDBMS 9i release 2 Enterprise Edition location (\$ORACLE_HOME/jdbc/lib) on the database server.

Note: The JVM bundled with WebSphere 5.1.1 is supported for the AIP Online application.

Configuring WAS 5.1.1 for AIP Online Application

Note: The following WAS configuration steps are not necessary if the AIP 11.x application has already been installed and the AIP Oracle schema has not changed. If this is the case, proceed directly to Deploying the AIPOnlineApp.ear File on WAS 5.1.1.

1. Open the WAS Administrative Console that is to be used for administering the AIP 12.0 online application – `http://<server>:<port>/admin`. Replace the text in brackets with the correct information stated below.

Replace	With
<server>	The name or IP address of the server where WAS 5.1.1 is running
<port>	WAS Administration Console Port

Example: `http://server:9090/admin`

If the administrative console URL is unknown, consult the WAS 5.1.1 documentation for the correct URL.

2. Select **Environment – Manage WebSphere Variables**.
3. Under WebSphere Variables, perform the following:
 - a. Click **ORACLE_JDBC_DRIVER_PATH** and set the Value field to the directory containing the Oracle driver archive file classes12.jar, which can be obtained from otn.oracle.com.
Example: `/u00/websp/jdbc`
 - b. Click **Apply**.

4. Select **Security – JAAS Configuration – J2C Authentication Data**.
5. Under J2C Authentication Data Entries, click **New** and enter the following information in the fields provided:
 - a. In the Alias field, enter the alias for the Authentication Data Entry.
 - b. In the UsedID field, enter the AIP database schema owner.
 - c. In the Password field, enter the AIP database schema password.
 - d. Click **Apply**.
 - e. Click **OK**.

Example:

Alias:	AIPOnlineDBUser
User ID:	aip12
Password:	rettek
6. Select **Resources – JDBC Providers**.
7. Under JDBC Providers, select the **Server** option and then click **Apply**.
8. Create a new JDBC Provider.
 - a. Click **New** to create a new JDBC provider.
 - b. Select **Oracle JDBC Driver (XA)** from the JDBC Providers list.
 - c. Click **Apply**.
9. In the General Properties section, set the Classpath field to the location of the Oracle driver archive file, classes12.jar, and click **Apply**. Make sure to include the file name and extension in the Classpath field.

Example: /u00/webbsp/jdbc/classes12.jar
10. Under Additional Properties, select **Data Sources** and then **New**.
11. Enter the following information in the Configuration – General Properties fields:
 - a. Enter AIPOnlineDB in the Name field. This value is case sensitive and must be entered as shown.
 - b. Enter jdbc/AIPOnlineDB in the JNDI Name. This value is case sensitive and must be entered as shown.
 - c. Select the **Container managed persistence (CMP)** option.
 - d. From the Component-managed Authentication Alias option, select the J2C Authentication Alias that was created in step 5 above.
 - e. From the Container-managed Authentication Alias option, select the J2C Authentication Alias that was created in step 5 above.
 - f. Leave all other field as the defaults displayed.
 - g. Click **Apply**.

Example:

Name:	AIPOnlineDB
JNDI Name:	jdbc/AIPOnlineDB
Component-managed Authentication Alias:	AIPOnlineDBUser
Container-managed Authentication Alias:	AIPOnlineDBUser

12. Under Additional Properties, select **Custom Properties for the Data Source** and perform the following:
 - a. Remove all properties **except** for URL and transactionBranchesLooselyCoupled by selecting the options all other properties and then clicking **Delete**.
 - b. Select **URL** and enter the following information in the Value field:
Value: jdbc:oracle:thin:@<DB Server IP address>:<DB Listener Port>:<Database_name>
Example: jdbc:oracle:thin:@dbserver:1521:prod_db1
 - c. Click **Apply**, and then click **OK**.
 - d. Select **transactionBranchesLooselyCoupled** option and set the Value field to true.
 - e. Click **Apply**, and then click **OK**.
13. Save your configuration settings.
 - a. Select the **Save** link in the Message(s) section.
 - b. Click **Save** in the Save to Master Configuration section.
14. Verify the configuration by using the “Test Connection” option in the Data Sources configuration section (Resources – JDBC Providers – Oracle JDBC Driver (XA) – Data Sources – Data Source Name – Test Connection button). A successful message in the Message(s) section should appear. In the event of an unsuccessful connection test, review all previous steps to ensure that the configuration settings were defined correctly.

Deploying the AIPOnlineApp.ear File on WAS 5.1.1

Note: The following instructions assume the AIP Online application will be installed on the default WAS server, server1. In the event that the AIP Online application is not installed on the default WAS server, server1, additional configuration steps may be required to successfully complete the installation process.

1. Log on to the UNIX Web server where WAS 5.1.1 is installed as the `retex` user and determine where the AIP Online application server file, `AIP-12.0-online-appserver.zip`, will be installed. There should be a minimum of 100 MB of disk space available for the application installation files.
2. Copy the `AIP-12.0-online-appserver.zip` file, located in CDROM directory, to a newly created staging directory on the UNIX server. This staging directory location is referred to as `INSTALL_DIR` for the remainder of this chapter.
3. Change directories (`cd`) to `INSTALL_DIR` and extract the `AIP-12.0-online-appserver.zip` file.
4. Open the WAS Administrative Console that is to be used for administering the AIP Online application (e.g., `http://<server>:<port>/admin`).
5. Select **Applications – Install New Application**.

6. Under Preparing for the application installation, perform the following:
 - a. Select the **Server Path** option and set this field to
`INSTALL_DIR/AIPOnlineAppServer120/AIPOnlineApp.ear` file (from step 3 above)
Example:
 Server Path: `/u00/webasp/aip120/AIPOnlineAppServer120/AIPOnlineApp.ear`

Note: Do not enter any value for Context Root.
 AIPOnlineApp.ear file has this value build into it, which is 'aiponline'.

 - b. Click **Next**.
7. In the Generate Default Bindings window, leave all default settings as displayed and click **Next**.

Note: An Application Security Warning for the was.policy file may appear. This warning can be ignored as it does not affect the AIP Online application. If the warning appears, click **Continue**.

8. Under “Step 1: Provide options to perform the installation”, set the Application Name field to the name of the AIP Online application being installed, and click **Next**.
Example:
 Application Name: AIPOnlineApp
9. Under “Step 2: Provide options to perform the EJB Deploy”, select **ORACLE_V9I** for Deploy EJBs Option - Database Type, and click **Next**.
10. Under “Step 3: Provide JNDI Names for Beans”, enter OrderSender in the JNDI Name field for the EJB Module OrderSenderEJB, and click **Next**. Click **Next** again to proceed.
Example: OrderSender
11. Under “Step 4: Map EJB references to beans”; enter the JNDI Name for the Reference Binding ejb/RIBMessagePublisherRemote.
 The JNDI name for the Reference Binding ejb/RIBMessagePublisherRemote will be constructed in the following format:
`corbaname:iiop:$ip:$port/$cell/nodes/$node/servers/$server/com/retek/rib/
 binding/publisher/RIBMessagePublisher`

Replace the values as described in the table below.

Value	Description
\$ip	This variable represents the IP Address or host name of the server.
\$port	This value represents the BOOTSTRAP_PORT (default value is 2810).
\$cell	This value represents the cell name (default is the servername).
\$node	This value represents the node name (default is the servername).
\$server	This value represents the server instance name (default is server1).

Example:

```
corbaname:iiop:server_name:2810/cell/nodes/node/servers/server1/com/retek/rib/
binding/publisher/RIBMessagePublisher
```

12. Enter the JNDI Name for Reference Binding ejb/OrderSender. The JNDI Name for Reference Binding ejb/OrderSender should be populated with the value OrderSender. If OrderSender appears, click **Next**.

Example: OrderSender

13. Under “Step 5: Map resource references to resources”, perform the following:
 - a. Select the AIP Online datasource that was created in the previous section from the Specify existing Resource JNDI name list and click **Apply**.
Example: node;jdbc/ AIPOnlineDB
 - b. Check module OrderSenderEJB.
 - c. Click **Apply**. The JNDI Name field should automatically be populated with **jdbc/AIPOnlineDB**.
 - d. Click **Next**.
14. Under “Step 6: Map virtual hosts for web modules”, leave all fields as default and click **Next**.
15. Under “Step 7: Map modules to application servers”, leave all fields as default and click **Next**.
16. Under “Step 8: Ensure all unprotected 2.0 methods have the correct level of protection”, leave all fields as default and click **Next**.
17. Under “Step 9: Summary”, verify that all installation information is correct and click **Finish**.
It may take several minutes to update your system. Upon completion, the message “Application AIPOnline installed successfully” appears.
18. Click the **Save to Master Configuration** link when it appears.
19. Click **Save** in the Save to Master Configuration section. Following a successful save, the WAS Administrative Console appears.
20. On the Enterprise Applications page, stop the newly created AIP Online application (AIPOnlineApp) if it is running. Make sure that the status of this application is down, which is indicated by displaying a red x. To stop the AIP Online application, check the option next to the new application and click **Stop**.
21. On the Enterprise Applications page, start the newly created AIP Online application by selecting the option next to this application and clicking **Start**. Make sure that the status of the new application is up, which is indicated by displaying a green arrow.

Configuring the AIP Online Application

A setup page is used to configure the properties files for AIP Online.

1. On the UNIX application server, create a `/config` and a `/data` directory in `INSTALL_DIR` that will be used for configuring the AIP Online application and loading data. These directories must be readable and writeable by the user that runs the WAS.

Example:

```
/u00/webasp/aip120/config
```

```
/u00/webasp/aip120/data
```

2. Load the new AIP Online application by entering the following URL in a Web browser:

```
http://<server>:<http_port>/aiponline
```

Replace the text in brackets `<>` with the appropriate information described below.

Replace	With
<code><server></code>	The name or IP address of the server where WebSphere is running.
<code><http_port></code>	The WAS HTTP port as defined by the <code>HTTPTransport_1</code> value in the file <code>WAS_HOME/config/cells/<cell>/nodes/<node>/servers/server1/server.xml</code> .

Example: `http://server:9080/aiponline`

A page displaying a link to the setup page appears.

3. Click the **setup page** link. The AIP Online Setup page appears.
4. In the Directory structure section, set the Configuration directory and Data directory to the respective directories created in step 1 above. Leave the Data ZIP file field blank unless directed by Oracle Retail.

Configuration Directory: `INSTALL_DIR/config`

Data Directory: `INSTALL_DIR/data`

Example:

Configuration Directory: `/u00/webasp/aip120/config`

Data Directory: `/u00/webasp/aip120/data`

5. Under "Application Licensing", set the License file field to the `license-aip.bin` file as shown below.

License file: `INSTALL_DIR/AIPOnlineAppServer/license-aip.bin`

Example:

License file: `/u00/webasp/aip120/AIPOnlineAppServer/license-aip.bin`

6. Under "Database setup", set the following values in the fields provided:
 - Database type - Enter Oracle.
 - Database name - Enter the Oracle database SID name.
 - Username and password - Enter the Oracle AIP schema owner and password.
 - Network host - Enter the IP address or name of server where the Oracle database is running.
 - Port Number - Enter the Oracle database port number.
 - Schema name - Leave this field blank.
 - Dump file name - Leave this field blank unless directed by Oracle Retail.

Example:

Database type: Oracle
Database name: prod_db1
Username: aip12
Password: retek
Network host: dbserver
Port number: 1521
Schema name:
Dump file name:

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

Example:

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

The E-mail test address is the only optional field. All other e-mail fields must be populated.

8. Under “Integration”, retain the default settings for all integration fields as this version of AIP Online does not provide Integration functionality.
9. Under “Security”, set the following fields as appropriate, and then click **Next**.
- Administration Hosts – This field can accept comma-separated list of IP address/mask values to define which clients are allowed to log on to perform system administration tasks.

Note: If no Administration Hosts are entered, all hosts will be able to connect to the administration console. This configuration is not recommended.

- SSL Available – This option may be selected if the application server is configured for SSL (https) access.
- CA Certificate – This option may be selected if the server certificate in use was obtained from a recognized Certificate Authority, such as VeriSign.

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

10. 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 Online Setup: Part III: installing page briefly appears, followed by the AIP Online: 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 Online.

11. Review the installation log to ensure that no errors were encountered during the installation process.
12. Restart the WebSphere Application Server to apply the AIP Online configuration changes.

13. If necessary, start the AIP Online application through the WAS Administrative Console. To start the AIP online application, select the option next to the application on the Enterprise Applications page and click **Start**. Make sure that the status of the AIP Online application is now up, indicated by a green arrow.

Creating the AIP Online Enterprise

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

1. Select the link displayed in the AIP Online Setup: Part IV (step 10 from Configuring the AIP Online Application) to load the AIP Online 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 example below.

Example: `http://server:9080/aiponline/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. Select the default Enterprise User, **J Sainsburys**, and click **Edit**.
5. On the Company Info tab, modify the Enterprise code from `aiponline` to `aiponline2` and click **Save**.
6. Click **New**.
7. On the Company Info tab, enter the following information as shown below:
Company name, Enterprise code, and Contact email.
 - Company name – Enter your company name.
 - Enterprise code – Enter `aiponline`.
 - Contact Email – Enter the AIP Administrator's e-mail address.

The Industry and Company type fields are not required.

Example:

Company Name: Retek
Enterprise Code: aiponline
Contact Email: admin@server.com

8. On the initial Admin tab, enter the following information:
 - First Name – Enter the AIP Administrator’s first name.
 - Last Name – Enter the AIP Administrator’s last name.
 - Username – Enter the AIP Administrator’s user name to be used when logging into AIP Online.
 - New Password – Enter the AIP Administrator’s AIP Online 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 (i.e. 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
 - 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.

Example:

First Name: John
Last Name: Doe
Username: doejohn
New Password: aip120online
Retype New Password: aip120online

9. Navigate to the Services tab. Two services are displayed, Core Administration and AIP Online. Perform the following:
 - a. Click the **Enabled** cell of Core Administration.
 - b. Double-click the User Limit 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 Online.
 - e. Double-click the User Limit cell of AIP Online 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.
10. On the Enterprise Administration window, click **Save**. Close the Enterprise Administration window when the save is complete.
11. On the System Administrator page, click the **LOG OUT** link located at the top right of the page.

Creating AIP Online Users

This section provides the procedures to create AIP online 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 Online 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.

Example:

First Name: John
Last Name: Doe
Email: jdoe@company.com
Username: doejohn
New Password: aip120online
Retype New Password: aip120online
Password Status: Normal

7. Click the **Permissions** tab. A user permissions form appears.
8. Select the **Enabled** cell of the AIP Online 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.

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 11.3

Reference the Retail Extract Transform and Load (RETL) 11.3 Programmer's Guide for detailed installation instructions on this product. Following the successful installation of RETL 11.3, test the application to verify the environment was set up properly and the RETL binary was installed correctly.

Note: It is recommended that the AIP integration files be extracted on the database server where the RMS 11.0.10 schema exists if network traffic is limited.

1. Log on 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 example below.

Example:

```
/u00/rete1> 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_rete1" 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/rete1> verify_rete1 -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/verifyrete1-1843208.log
```

Note: The database parameter passed with the `verify_rete1` script varies depending on the type of database to which RETL is configured. Refer to the RETL 11.3 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. The integration files must be extracted on the same server as RETL. It is recommended that RETL and the integration files reside on the database server.

RETL may save very large data extracts to the file system depending on the quantity of data in the database. 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). These batch shell scripts are contained in the AIP-12.0-online-dbserver.zip file, which should be copied to the same directory where the AIP integration files are extracted. You can use the `rfx` or `retek` UNIX user account to run the integration/database scripts.

1. Log on to the UNIX server as the `rfx` or `retek` user and determine where the AIP integration files need to be installed. A minimum of 4 MB of disk space is required for the integration files.
2. Copy the AIP-12.0-online-integration.zip file from the CDROM directory to a newly created staging directory.
3. Change directories (`cd`) to the staging directory and extract AIP-12.0-online-integration.zip. When extracted, multiple files and directories appear under a parent AIPOnlineIntegration120/ directory.
4. Copy the AIP-12.0-online-dbserver.zip file from the CDROM directory into the same staging directory from step 2 above.
5. Change directories (`cd`) to the staging directory and extract AIP-12.0-online-dbserver.zip. When extracted, multiple files and directories appear under a parent AIPOnlineDBServer120/ directory.

Configuring Your Environment

Under the AIPOnlineIntegration120/ directory, the following configuration files need to be modified, which are discussed in the following sections:

- `config.xml` – The RETL configuration file.
- `cron_import.sh` – This script performs the necessary data imports and is run by the scheduler.
- `cron_export.sh` – This script performs the necessary data exports and is run by the scheduler.

Configuring the config.xml File

This configuration file contains the database connection information for RETL for both import and export. Refer to the 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 (i.e. should be an entry in `tnsnames.ora` and reachable by `SQLPlus`).

The Oracle export `"arraysize"` needs to be set dynamically in the `config.xml` file depending on the server's capabilities. The 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 following AIP environment variables need to be defined in the aip_env_online.sh file:

- 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 AIP 12.0 Implementation Guide for information on the parameters to be set.

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

- ONL_SCHEMA_OWNER – This variable must be set to the owner of AIP online schema.
- RETL_MAX_HEAP_SIZE – This parameter is used by the virtual machine. It is set to a default value of 500M. However, it can be changed dynamically to 'xxxM' or 'yG' to limit the memory usage by the virtual machine.

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:

- 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.
- BSA – This variable points to where the BSA scripts are located. Typically, this should be the bsa directory under INTEGRATION_HOME, which is defined in aip_env_online.sh mentioned in the previous section.
- AIPONLINE_SCRIPTS – This variable points to the scripts directory under INTEGRATION_HOME, which is defined in aip_env_online.sh mentioned in the previous section.

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 sqldr functions correctly).

Example:

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

```
export RFX_HOME=<path from root>/rfx/rfx-11.3
export RFX_TMP=$RFX_HOME/tmp
export ORACLE_HOME=<path from root>/oracle/product/9.2.0.7
export BSA=<path to integration directory>/bsa
export AIPONLINE_SCRIPTS=<path to integration directory>/scripts
export PATH=$RFX_TMP:$RFX_HOME/bin:$ORACLE_HOME/bin:$BSA:$AIPONLINE_SCRIPTS:$PATH
```

Using the AIP Installer

The AIP Installer

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

- AIP batch components
- Domains
- RMS transformation file

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

Before You Begin

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

- RPAS 12.0.4, which includes RPAS Server, RPAS Configuration Tools, and Acumate.
- Java 1.4.2 or later
- Unzip utility

Running the AIP Installer

Perform the following procedure to run the AIP Installer:

1. Locate and extract AIP-12.0.installer.zip into a newly created staging directory, which is referred to as [AIP_Installer].
2. Begin the Installer by changing to the root of the [AIP_Installer] directory and by running the following command:

```
./install.sh
```

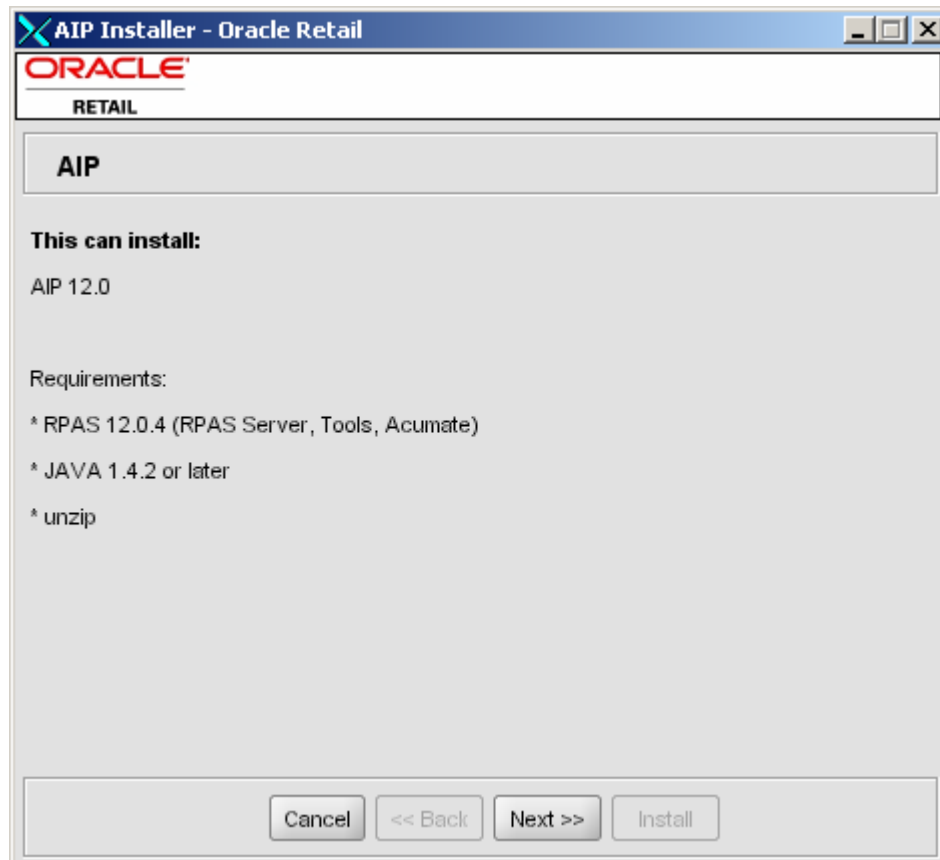
Note: The command must be executed with the preceding period and forward slash.

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.

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".

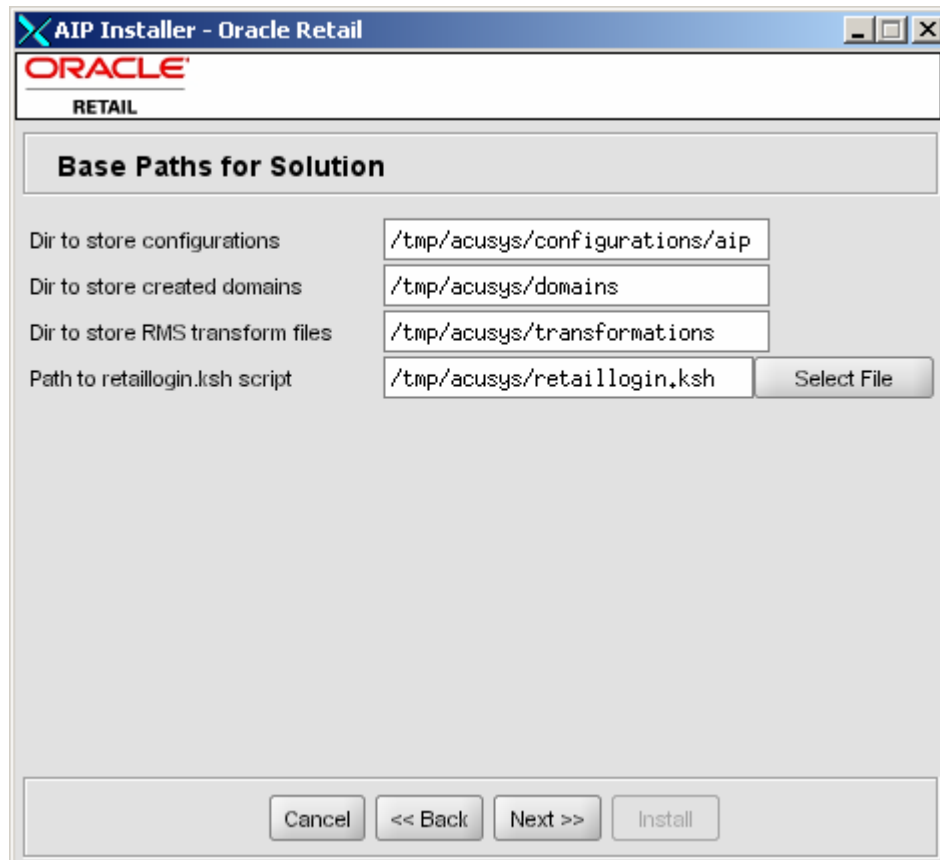
Note: In text mode, the default value will appear in square brackets. To use the default value and continue, press the **Enter** key. If you want to use a different value, enter the new value. When prompted to create a directory, respond with "y" or "yes" and press the **Enter** key.

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



AIP Installer Window

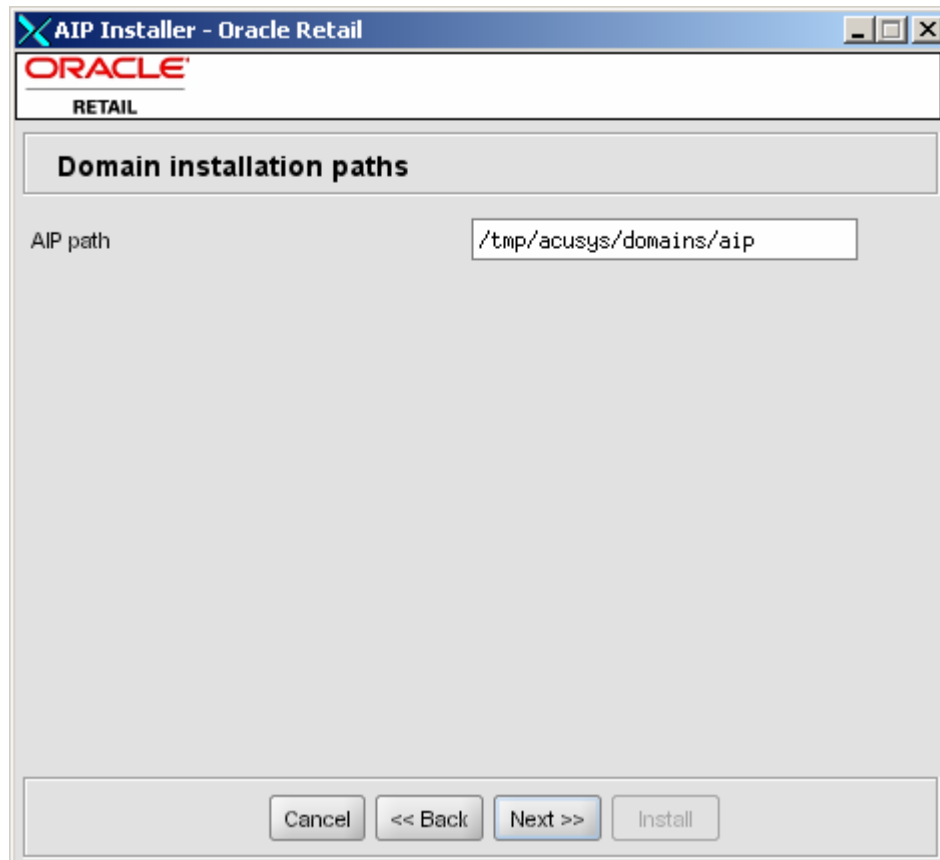
3. Click **Next** to continue. The Base Paths for Solution screen appears.



Base Paths for Solution Screen

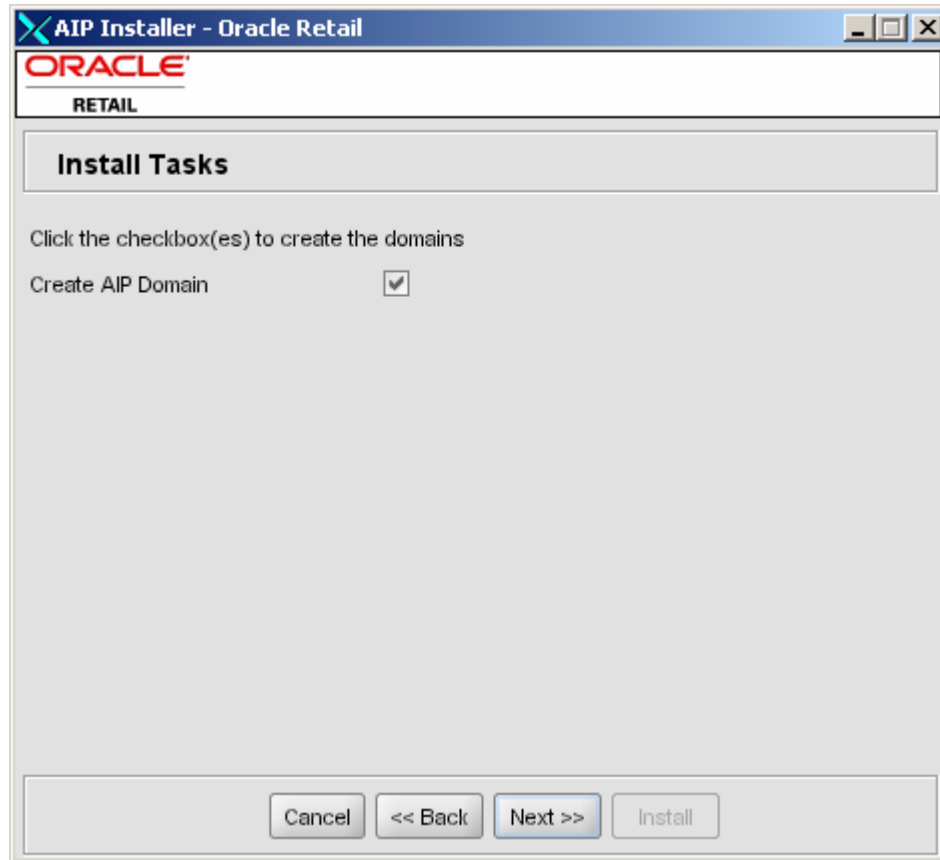
4. Enter the following path information and click **Next**:
 - Dir to store configurations – Enter the target directory for your configurations.
 - Dir to store created domains – Enter the target directory for the domains that will be created by the AIP Installer.
 - Dir to store RMS transform files – Enter the target directory for the RMS transformation files used by AIP.
 - Path to retaillogin.ksh script – Enter the target path where the retaillogin.hsh file resides on your system or use click the **Select File** button to navigate to and select the retaillogin.ksh file. The retaillogin.ksh script was created during RPAS installation

The Domain installation paths screen appears.



Domain Installation Paths Screen

5. Enter the path where your AIP domain will be installed and click **Next**. The Install Tasks screen appears.

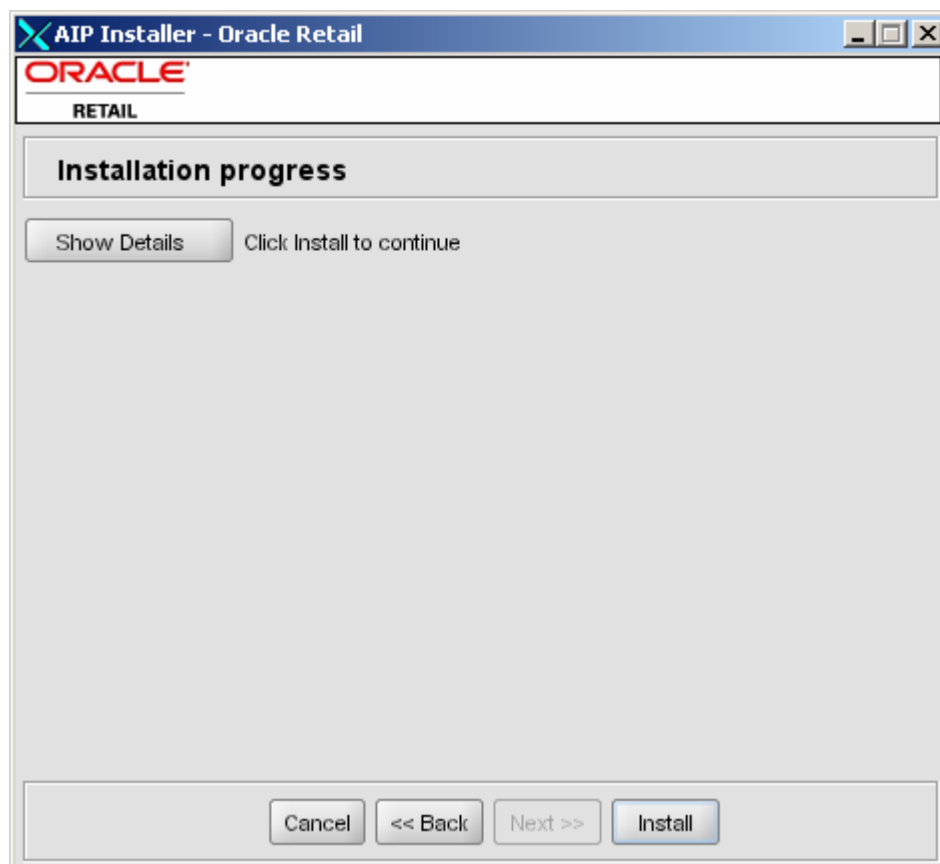


Install Tasks Screen

6. To have the AIP Installer create the AIP domain, make sure the **Create AIP Domain** option is selected and click **Next**. If you want to create the AIP domain later, deselect the **Create AIP Domain** option and click **Next**. The AIP Progress screen appears.

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: The domain install process also includes post-install data loading scripts specific to the AIP configuration. These scripts may also be modified.

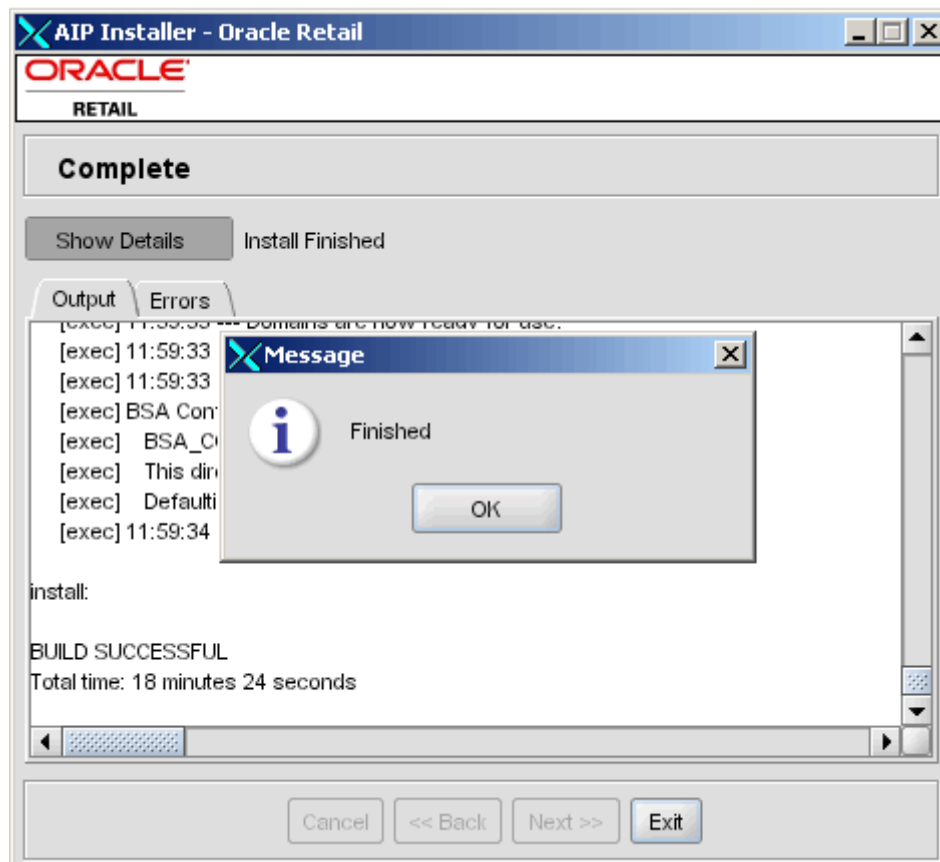


Installation Progress Screen

7. 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.

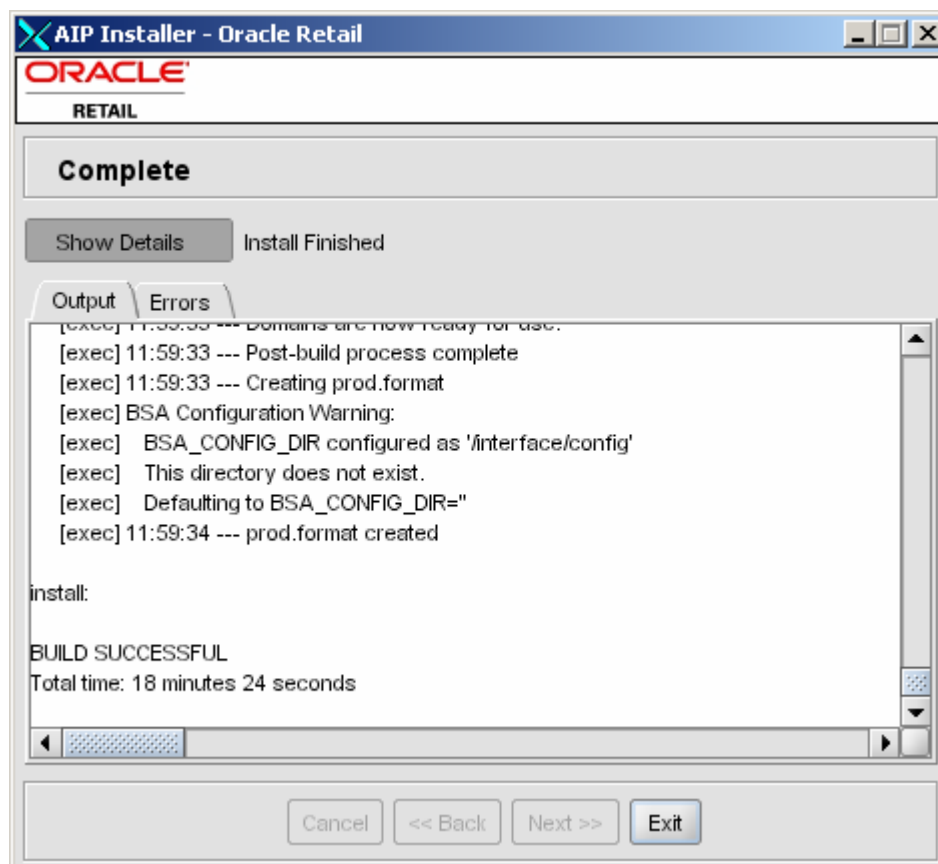
When the installation process is complete, the Completed screen appears with Message dialog box.

Note: The installation process can vary depending on your environment. If you chose to create the AIP global domain, installation time might take 30 to 60+ minutes depending on server.



Complete Screen

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



Complete Screen without Message Dialog

9. Review the installation details.

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

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

10. Click **Exit** to close the AIP Installer window.
11. Run the transform scripts.

The RMS-AIP transform interface installation process is complete. What follows are brief instructions for how to run the RMS-AIP transform scripts. This step does not have to be performed during this installation process; rather, it is typically scheduled to run prior to the AIP RPAS daily batch process.

Note: This document does not provide instructions on how to create the raw RMS data files extracted from RMS by the RMS RETL scripts.

After the raw RMS data files have been extracted from RMS, using the schema files from the RMS package in `$RMS_AIP_TRANSFORM/rms_schema_dir`, the data files should be placed in the directory `RAW_RMS_DATA_DIR`. Once the data files are available in this directory, execute `aip_t_master.ksh`. This script executes the RMS-AIP transform interface scripts. When the `aip_t_master.ksh` is finished, the AIP loads/feeds have been created and are moved to `$AIPDOMAIN/interface/config/rms`, which is a location defined by `$AIPRMS` in the file `$RPAS_HOME/bin/aip_constants_rpas.sh`.

Post Installation Instructions

The domains are not usable for business application until measure data is loaded into them. That task is out of scope for this installation guide. Refer to the AIP Implementation Guide and Operations Guide for information on loading data into the domains and for practical use of the AIP batch domains.

Appendix: Sample Oracle 9.2.0.x Database Creation Script

crdb1.sql

Execute as: sysdba

Note: Modify file paths and "SID" for your environment.
Adjust redo logs, TEMP and UNDO sizes accordingly.

```
spool SID.log
startup nomount pfile=${ORACLE_HOME}/dbs/initSID.ora
create database "SID"
    maxdatafiles 1000
    character set UTF8
DATAFILE
    '/u00/oradata/SID/system01.dbf' SIZE 500M
    AUTOEXTEND ON NEXT 10M MAXSIZE 2000M
LOGFILE
    group 1 ('/u00/oradata/SID/redo1a.log') size 1000M,
    group 2 ('/u00/oradata/SID/redo2a.log') size 1000M,
    group 3 ('/u00/oradata/SID/redo3a.log') size 1000M
DEFAULT TEMPORARY TABLESPACE TEMP
    TEMPFILE '/u01/oradata/SID/temp01.dbf' SIZE 5000M
    EXTENT MANAGEMENT LOCAL UNIFORM SIZE 1M
undo tablespace UNDO_TS
    DATAFILE '/u00/oradata/SID/undo_ts01.dbf' SIZE 5000M
;

spool off
exit
```

crdb2.sql

Execute as: sysdba

This script installs the data dictionary views.

```
spool crdb2.log
```

```
REM # install data dictionary views:
PROMPT Running catalog.sql
@$ORACLE_HOME/rdbms/admin/catalog.sql
PROMPT Running catproc.sql
@$ORACLE_HOME/rdbms/admin/catproc.sql
PROMPT Running catblock.sql
@$ORACLE_HOME/rdbms/admin/catblock.sql
create user oracle identified externally;
grant dba to oracle;
```

```
REM * These privs needed for users to run proper grant code when creating users.
grant select on dba_jobs to public with grant option;
grant select on dba_roles to public with grant option;
grant select on dba_role_privs to public with grant option;
grant execute on dbms_ols to public with grant option;
```

```
REM * These privs needed to be granted to all due to 9i security changes.
grant select_catalog_role to public;
grant execute_catalog_role to public;
grant execute on dbms_lock to public;
grant execute on dbms_ols to public;
```

```
REM * query rewrite privilege needed to create function-based indexes
grant query rewrite to public;
```

```
REM * dbms_system is needed for tracing
grant execute on sys.dbms_system to public;
```

```
connect system/manager
PROMPT Running pupbld.sql
@$ORACLE_HOME/sqlplus/admin/pupbld.sql
```

```
PROMPT Creating PLAN table owned by SYSTEM
@$ORACLE_HOME/rdbms/admin/utlxplan.sql
PROMPT Creating public synonym for the plan table
create public synonym PLAN_TABLE for SYSTEM.PLAN_TABLE;
```

```
disconnect
```

```
exit
```

crdb3.sql

Execute as: sysdba

This script installs Java and XML components.

```
spool crdb3.log
```

```
REM * Install XDK and XSU
```

```
PROMPT altering system to set _system_trig_enabled to false
```

```
ALTER SYSTEM SET "_system_trig_enabled"=FALSE SCOPE=MEMORY;
```

```
PROMPT Running initjvm.sql to install Java objects
```

```
@$ORACLE_HOME/javavm/install/initjvm.sql
```

```
PROMPT Running initxml.sql to install XML and XSU
```

```
@$ORACLE_HOME/rdbms/admin/initxml.sql
```

```
PROMPT Running xmlja.sql to install NCOMP'ed XML Parser
```

```
@$ORACLE_HOME/xdk/admin/xmlja.sql
```

```
PROMPT Running catjava.sql to install catalog scripts for Java
```

```
@$ORACLE_HOME/rdbms/admin/catjava.sql
```

```
PROMPT Creating public synonyms and grants
```

```
CREATE PUBLIC SYNONYM XMLQUERY for SYS.DBMS_XMLQUERY;
```

```
GRANT EXECUTE ON XMLQUERY TO PUBLIC;
```

```
GRANT EXECUTE ON XMLPARSER TO PUBLIC;
```

```
GRANT EXECUTE ON XMLDOM TO PUBLIC;
```

```
CREATE PUBLIC SYNONYM XSLPROCESSOR for SYS.XSLPROCESSOR;
```

```
GRANT EXECUTE ON XSLPROCESSOR TO PUBLIC;
```

```
PROMPT Revaliding invalid objects
```

```
@$ORACLE_HOME/rdbms/admin/utlrp.sql
```

```
spool off
```

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 9.2.0.x Parameter file
#
# NOTES:
# 1. Change all file directory paths as necessary for your environment.
# 2. Search and replace the string "SID" with your database name. Do not change
#    SID in $ORACLE_SID.
# 3. Search and replace "SID" in SID_01 and SID_02 with your database name.
# 4. Modify parameters as necessary for your development, test,
#    and production environments.
#
# -----
# MAINTENANCE LOG
#
# Date      By      Parameter      Old/New      Notes
# +-----+ +-----+ +-----+ +-----+ +-----+
# 07/01/04 Retek    NA              NA              creation
#
#####

# -----
# The following SGA parameters are CRITICAL to the performance of the
# database. The following settings are based off 1GB of allotted memory.
# Adjust these parameters for your environment.
# The SGA is composed of:
#   db_cache_size, log_buffer, java_pool_size, large_pool_size, shared_pool_size
# -----
db_cache_size           = 256M
java_pool_size          = 24M                      #150M or higher for applying
oracle patchsets; 70M if using RMAN
log_buffer              = 10485760
shared_pool_size        = 150M

# -----
# The following parameters do not affect SGA size and should be adjusted for
# your environment.
# -----
background_dump_dest    = $ORACLE_BASE/admin/$ORACLE_SID/bdump
compatible              = 9.2.0
control_files            = (/u01/oradata/SID/SID_01.ctl
                          ,/u01/oradata/SID/SID_02.ctl)
core_dump_dest          = $ORACLE_BASE/admin/$ORACLE_SID/cdump
db_block_size           = 8192                      # default is 2k; adjust
before db creation, cannot change after db is created
db_files                = 999                      # default is 200; set to
max number of database files
db_file_multiblock_read_count = 16                  # (max io size)/(block
size); adjust as needed; platform specific

db_name                 = SID
db_writer_processes     = 4
job_queue_processes     = 9                      # Retek required; number
of cpu's +1
local_listener          =
"(ADDRESS=(PROTOCOL=TCP)(HOST=localhost)(PORT=1521))"
nls_date_format         = DD-MON-RR              # Retek required
nls_calendar            = GREGORIAN
```

```

nls_language           = AMERICAN           # default
nls_territory          = AMERICA            # default
open_cursors           = 900                # Retek required
(minimum=900); default is 50
optimizer_features_enable = 9.2.0
optimizer_mode         = CHOOSE             # Retek required
processes              = 500                # max number of os
processes that can connect to oracle
query_rewrite_enabled  = TRUE               # fct based indexes
sessions              = 1500               # ~(3*processes);
session_cached_cursors = 100               # default is 0
undo_management        = AUTO
undo_tablespace        = undo_ts            # match with tablespace
name used in your creation script
undo_retention         = 1800               # currently set for 30
minutes; set to avg length of transactions in secs
user_dump_dest         = $ORACLE_BASE/admin/$ORACLE_SID/udump
utl_file_dir           = $ORACLE_BASE/utl_file

# *** Archive Logging, set if needed ***
#log_archive_dest      = 'location=$ORACLE_BASE/admin/$ORACLE_SID/arch/'
#log_archive_format    = $ORACLE_SIDarch%s.log
#log_archive_min_succeed_dest = 1
#log_archive_start     = TRUE
#log_checkpoint_interval = 9999999999

```

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
;

```

Appendix: RMS-AIP Transform Directory Contents

Transform Interface Scripts

Location: \$RMS_AIP_TRANSFORM/k_shell_scripts

AIP uses the following RMS data transformation scripts:

- aip_t_master.sh
- aipt_item.ksh
- aipt_orghier.ksh
- aipt_sub_item.ksh
- aipt_str_prd_life.ksh
- aipt_future_delivery.ksh
- aipt_rename.ksh

These scripts are unpacked from AIP-12.0.rms-transformations.zip and moved to \$RPAS_HOME/bin, as detailed in Chapter 8 of this Installation Guide.

Input Schema Files

Location: \$RMS_AIP_TRANSFORM/rms_schema_dir

Input Schema files are the schema files which are required by the transform interface scripts to read the RETL extracts from RMS.

The \$RMS_AIP_TRANSFORM/rms_schema_dir directory must contain following input schema files, copied from the RMS package:

- rmse_aip_item_master.schema
- rmse_aip_item_retail.schema
- rmse_aip_item_supp_country.schema
- rmse_aip_merchhier.schema
- rmse_aip_purged_item.schema
- rmse_aip_dmx_bndprdasc.schema
- rmse_aip_store.schema
- rmse_aip_orghier.schema
- rmse_aip_substitute_items.schema
- rmse_aip_item_loc_traits.schema
- rmse_aip_future_delivery_order.schema
- rmse_aip_future_delivery_tsf.schema
- rmse_aip_tsf_in_well.schema
- rmse_aip_future_delivery_alloc.schema
- rmse_aip_alloc_in_well.schema
- rmse_aip_wh_dat.schema
- rmse_aip_wh.schema

Output Schema Files

Location: \$RMS_AIP_TRANSFORM/aip_schema_dir

Output Schema files are the schema files which are required by the transform interface scripts to write the AIP loads/feeds.

The \$RMS_AIP_TRANSFORM/aip_schema_dir directory must contain following output schema files:

- aipt_item.schema
- dmx_dscdt_.schema
- aipt_loc.schema
- aipt_dm0_pmsstasrc.schema
- aipt_dm0_pmsendsrc.schema
- aipt_dmx_vadprdasc.schema
- aipt_str_prd_life.schema
- aipt_sr0_it_.schema
- aipt_sr0_oo_.schema
- aipt_wr1_it_.schema
- aipt_wr1_oo_.schema
- aipt_wr1_ow_.schema

RETL Extracts (Data Files from RMS)

Location: \$RMS_AIP_TRANSFORM/raw_rms_data

RETL extracts from RMS are used as AIP loads/feeds. There are two kinds of RETL extracts: extracts that require transformations before being fed into AIP and extracts that do not require any transformations.

The \$RMS_AIP_TRANSFORM/raw_rms_data directory holds both types of RETL extracts. These extracts will be moved from RMS server to the \$RMS_AIP_TRANSFORM/raw_rms_data directory using a batch scheduler, which the user needs to configure. The batch scheduler is not part of the AIP application suite.

The following RETL extracts are used by the RMS-AIP transform interface scripts to generate a new set of AIP loads/feeds:

- rmse_aip_item_master.dat
- rmse_aip_item_retail.dat
- rmse_aip_item_supp_country.dat
- rmse_aip_merchhier.dat
- rmse_aip_purged_item.dat
- dmx_bndprdasc.txt
- rmse_aip_store.dat
- rmse_aip_orghier.dat
- rmse_aip_substitute_items.dat
- rmse_aip_item_loc_traits.dat
- rmse_aip_future_delivery_order.dat
- rmse_aip_future_delivery_tsf.dat
- rmse_aip_tsf_in_well.dat

- rmse_aip_future_delivery_alloc.dat
- rmse_aip_alloc_in_well.dat
- rmse_aip_wh.dat
- rmse_aip_wh.txt

In addition, the following RETL extracts, which do not need to be transformed, are found in this location. These files make up **Group 1** of the data that must be imported into the AIP RPAS domain:

- splr.txt
- dmx_dirspl.txt
- dmx_prdsplls.txt
- closed_order.txt
- received_qty.txt
- rmse_aip_wh_type.txt
- sr0_curinv.txt
- sr0_curinv_*.txt
- wr1_curinv.txt
- wr1_curinv_*.txt
- dm0_onseffdt.txt
- dm0_ofseffdt.txt

Note: sr0_curinv and wr1_curinv data feeds may be partitioned, e.g. sr0_curinv_1.txt, sr0_curinv_2.txt, etc.

Post Execution Transform Interface Scripts

Executing the aip_t_master.ksh script runs the RMS-AIP transform interface scripts. Once this script has successfully completed, the following new AIP loads/feeds are created.

These files represent **Group 2** of the data that must be imported into the AIP RPAS domain:

- item.txt
- dmx_dscdt.txt
- loc.txt
- dm0_pmsstasrc.txt
- dm0_pmsendsrc.txt
- dmx_vadprdasc.txt
- sr0_prdlfe.txt
- sr0_it.txt
- sr0_oo.txt
- wr1_it.txt
- wr1_oo.txt
- wr1_ow.txt

The following file, which is used by the transform scripts, is also a direct AIP feed. It constitutes **Group 3** of the data that must be imported into the AIP RPAS domain:

- dmx_bndprdasc.txt

The three Groups of data feeds mentioned above must be moved to \$AIPDOMAIN/interface/config/rms, which is a location defined by \$AIPRMS in \$RPAS_HOME/bin/aip_constants.sh file, using a batch scheduler, which the user needs to configure. The batch scheduler is not part of the AIP application suite.