

**Oracle® Retail Advanced Inventory Planning**  
Installation Guide  
Release 12.0.2

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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 12.0.2 documentation set:

- Oracle Retail Advanced Inventory Planning Release Notes

## 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.

## Review Patch Documentation

For a base release (".0" release, such as 12.0), Oracle Retail strongly recommends that you read all patch documentation before you begin installation procedures. Patch documentation can contain critical information related to the base release, based on new information and code changes that have been made since the base release.

## Oracle Retail Documentation on the Oracle Technology Network

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

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

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

## Conventions

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

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

---

---

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

[A hyperlink appears like this.](#)

---



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# AIP Installation Overview

This document describes how to upgrade an AIP 12.0.1 installation to AIP 12.0.2.

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**Note:** This document uses [OS] to represent the operating system for your AIP media installation package, such as *aix* or *sun*. This convention appears in path statements and should be replaced with the operating system, *aix* or *sun*.

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## AIP Package Extraction

Download the 12.0.2 package (AIP-12.0.2.[OS].tar.zip) from the Oracle Metalink Web site (<https://metalink.oracle.com>) to a staging folder, which is referred to as \$PACKAGEDIR, that is accessible to all components of your AIP 12.0.1 installation. The following sample commands are provided to guide you through the file extraction process and identify the files provided in this patch.

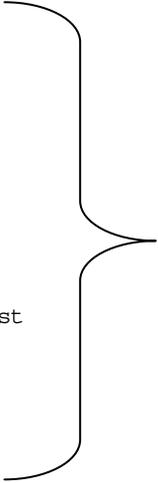
### Example of Package Extraction:

```
$ mkdir packagedir
$ cp AIP-12.0.2.[OS].tar.zip packagedir
$ cd packagedir
$ export PACKAGEDIR=`pwd`
$ unzip AIP-12.0.2.[OS].tar.zip
$ tar xf AIP-12.0.2.[OS].tar
```

Under the \$PACKAGEDIR, the following files and directories have been extracted.

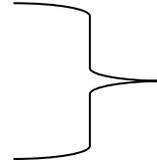
```
README.html
aip/12.0.2/README_FIRST.txt
aip/12.0.2/AIP 12.0.2 Patch Installation Guide.pdf
aip/12.0.2/AIP 12.0.2 Release Notes.pdf
aip/12.0.2/diff.txt

aip/12.0.2/Using the Retek Service Pack System.doc
aip/12.0.2/Retek.pm
aip/12.0.2/aip_env_rpas.sh
aip/12.0.2/rsp_manager
aip/12.0.2/verify_domain.sh
aip/12.0.2/[OS]/Version
aip/12.0.2/[OS]/domain/
aip/12.0.2/[OS]/domain-scripts/
aip/12.0.2/[OS]/domain-scripts/postproc.002
aip/12.0.2/[OS]/env/
aip/12.0.2/[OS]/env/AIP_INSTALL/
aip/12.0.2/[OS]/env/AIP_INSTALL/aip_12.0.2_measure_backup_list
aip/12.0.2/[OS]/env/AIP_INSTALL/configuration.tar
aip/12.0.2/[OS]/env/AIP_INSTALL/input.tar
aip/12.0.2/[OS]/env/AIP_INSTALL/domain_build.tar
aip/12.0.2/[OS]/notice
aip/12.0.2/[OS]/rpas/
aip/12.0.2/[OS]/rpas/bin/
aip/12.0.2/[OS]/rpas/applib/
```



AIP Batch  
Installation Files

```
aip/12.0.2/[OS]/online/  
aip/12.0.2/[OS]/online/integration.zip  
aip/12.0.2/[OS]/online/AIPOnlineApp.ear  
aip/12.0.2/[OS]/online/12.0.2/  
aip/12.0.2/[OS]/online/12.0.1/
```



AIP Online  
Installation Files

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# AIP Batch Installation

## AIP Batch Upgrade Prerequisites

In order to upgrade the AIP 12.0.1 batch components to AIP 12.0.2, verify the following criteria for the AIP 12.0.1 batch system:

- Verify that AIP 12.0.1 is currently installed.
  - Check that the \$AIP\_INSTALL environment variable is defined and points to a valid AIP installation directory.
- Verify that UNIX operating system is upgraded to AIX 5.3 or Solaris 9.

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**Note:** AIX 5.1 is not supported for AIP 12.0.2.

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- Verify GNU C++ compiler is GCC 4.11.
- Verify RPAS version is 12.0.5.3.
- Check that the \$RPAS\_HOME environment variable is set and points to the RPAS home directory.
- Check that the \$RIDE\_HOME environment variable is set correctly.

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---

**Note:** Ensure that \$RIDE\_HOME has read/write execute permission by running “`chmod -R 775 $RIDE_HOME`”

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---

- Verify the AIP 12.0.2 package.
  - Check that \$PACKAGEDIR is accessible.
  - Ensure that \$PACKAGEDIR/aip/12.0.2/domainlist.txt lists full paths of simple and/or master domains but does not list sub/local domains.
- Verify the \$TEST\_AIPDOMAIN and \$AIP\_DOMAIN\_PATH variables are exported.
- Verify domains.

Perform the following:

```
$ cd $PACKAGEDIR/aip/12.0.2
$ ./verify_domain.sh
```

The result should reveal the following as the current version:

```
aip: 12.0.1
```

- Back up environment.

Perform a backup of the current domains and RPAS environment before attempting to install the patch.

---

---

**Note:** If any problems arise during the patch install, restore your backup data, fix the issue, and re-install the patch.

---

---

## AIP Batch Executables and Definitions Upgrade

This section provides the procedure to upgrade the AIP batch executables and definitions from AIP 12.0.1 to AIP 12.0.2.

---

**Note:** This section does not patch domains since the `-no_domain` flag is used in `rsp_manager` call described in this section.

---

1. Remove the resources:  

```
$ rm -rf $RPAS_HOME/applib/resources
```
2. Set the domain paths (AIPDOMAIN and RPAS\_INTEGRATION\_HOME) correctly in `$PACKAGEDIR/aip/12.0.2/aip_env_rpas.sh` based on the settings in your installation's `$RPAS_HOME/bin/aip_env_rpas.sh` script.  

```
$ vi $PACKAGEDIR/aip/12.0.2/aip_env_rpas.sh
```
3. To upgrade the batch executables and definitions from AIP 12.0.1 to AIP 12.0.2, run the following command from `$PACKAGEDIR/aip/12.0.2/`:  

```
$ ./rsp_manager -install -sp [OS]-no_domain -log aip1202part1.log
```

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

  - Copies AIP 12.0.2 executables (programs and shared libraries) from `$PACKAGEDIR/aip/12.0.2/[OS]/rpas` to `$RPAS_HOME`.
  - Copies AIP 12.0.2 configuration definitions from `$PACKAGEDIR/aip/12.0.2/[OS]/env/AIP_INSTALL` to `$AIP_INSTALL`
  - Compares the integrity of files in `RPAS_HOME` and `RIDE_HOME`, due to implicit default `-validate` flag in the AIP Batch Executables and Definitions Upgrade Process.
  - Generates a log file `<logfile>` that can be grepped for error keywords such as "error", "exception", and "<E" (due to the use of `-log <logfile>` in the AIP Batch Executables and Definitions Upgrade Process).
4. Make a backup copy of the `$RPAS_HOME/bin/aip_env_rpas.sh` script and replace your installation's `$RPAS_HOME/bin/aip_env_rpas.sh` with the `$PACKAGEDIR/aip/12.0.2/aip_env_rpas.sh` script you updated in step 2.  

```
$ mv $RPAS_HOME/bin/aip_env_rpas.sh $RPAS_HOME/bin/aip_env_rpas.sh.backup  
$ cp $PACKAGEDIR/aip/12.0.2/aip_env_rpas.sh $RPAS_HOME/bin
```

## AIP Batch Definitions Customizations Upgrade

To merge your AIP 12.0.1 batch definitions customizations into the AIP 12.0.2 batch configuration, perform the following procedure.

1. To extract the AIP 12.0.2 batch definitions configuration, execute the following command from \$AIP\_INSTALL:  

```
$ tar -xf configuration.tar
```
2. Refer to the RPAS Configuration Tools User Guide to perform the following batch definition 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 an Oracle Retail Support Representative.

---

## AIP Batch Domains Upgrade

Perform the following procedure to upgrade your AIP 12.0.1 domains to AIP 12.0.2.

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

```
$ more $PACKAGEDIR/aip/12.0.2/domainlist.txt
```

2. Run `rsp_manager`, as shown below, to upgrade the domains using the combined 12.0.2 configuration and customized 12.0.1 configuration.

```
$ cd $PACKAGEDIR/aip/12.0.2
```

```
$ ./rsp_manager -install -sp [OS]-no_rpas -no_env -domain domainlist.txt -log aip1202part2.log
```

---

---

**Note:** The initial interface directory is backed up automatically as `interface_12.0.1` under the domain folder.

---

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**Note:** If and only if you have built new domains (or if you have rebuilt your domains from scratch), you must run the `create_prod_format.sh` script before executing any batch processes with or on those new domains. However, if you are patching existing domains, as is probably the case here, it is not necessary to run the `create_prod_format.sh` script.

---

---

3. Ensure the `aip1202part2.log` file does not contain any errors.
  - `grep` for error keywords such as “error”, “exception”, and “<E” (due to the use of `-log <logfile>` in the AIP Batch Domains Upgrade).
4. Reset the AIP batch environment.

```
$ cd $RPAS_HOME/bin
```

```
$ . aip_common_rpas.sh
```

---

---

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

---

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# AIP Online Installation

## AIP Online Upgrade Prerequisites

In order to upgrade the AIP 12.0.1 online components to AIP 12.0.2, verify the following criteria for the AIP 12.0.1 online system:

- Verify the AIP Online components.
  - UNIX operating system should be running AIX 5.3 or Sun Solaris 9.
  - Check that the \$PACKAGEDIR environment variable is set as described earlier. If the Online database is installed on a different server from the RPAS domains, copy the patch to the new server and uncompress it as before.
- Verify the AIP Online Integration.
  - UNIX CRON schedules are defined.
  - RETL 11.3 is installed.
  - Check that the \$INTEGRATION\_HOME environment variable is set to point to the directory where the online integration environment is installed. Note that this environment variable is different from the INTEGRATION\_HOME that was used during the RPAS domain installation process.
  - Check \$INTEGRATION\_HOME/config.xml database parameters are set with the correct schema\_owner/password@database.
  - Define \$TMP\_ONLINE\_DIR, and back up the contents of \$INTEGRATION\_HOME to \$TMP\_ONLINE\_DIR.

```
$ mkdir $PACKAGEDIR/online.backup
$ export TMP_ONLINE_DIR=$PACKAGEDIR/online.backup
```
- Verify the AIP Online schema (schema\_owner/password@database) is AIP 12.0.1. To verify the schema version and patches already applied, perform the following:

```
sqlplus schema_owner/password@database
SQL> select value from system_parameters where name='AIP_VERSION';
```
- Verify AIP Online application.
  - Refer to the AIP 12.0.1 Installation Guide for configuration information.

## AIP Online Integration Upgrade

Upgrade the Online Integration scripts from AIP 12.0.1 to AIP 12.0.2 as follows.

1. Unzip integration.zip into \$INTEGRATION\_HOME.

---

---

**Note:** When using the unzip command shown below, be sure to include the `-a` flag to prevent `^M` characters at the ends of lines. This flag prevents text format errors that may occur.

---

---

- ```
$ cd $PACKAGEDIR/aip/12.0.2/[OS]/online
$ cp integration.zip $INTEGRATION_HOME
$ cd $INTEGRATION_HOME
$ mv aip_env_online.sh ../aip_env_online.sh.backup
$ mv config.xml ../config.xml.backup
$ mv config/bsa_cred.config ../bsa_cred.config.backup
$ unzip -a integration.zip
$ rm integration.zip
```
2. Update aip\_env\_online.sh based on aip\_env\_online.sh.backup.  

```
$ vi aip_env_online.sh
```
  3. Update config.xml based on config.xml.backup.  

```
$ vi config.xml
```
  4. Update bsa\_cred.config based on bsa\_cred.config.backup.  

```
$ vi config/bsa_cred.config
```
  5. Reset the AIP online integration environment.  

```
$ . aip_common_online.sh
```

## AIP Online Schema Upgrade

The 12.0.2 AIP Online patch contains scripts that will upgrade the Oracle 9i Database Online schema. By upgrading the schema, your AIP 12.0.1 installation data is migrated to 12.0.2 and any existing database procedures are replaced and recompiled as needed. The database connection needs to be available on the machine where \$PACKAGEDIR is located. In addition, make sure to back up the database schema before performing the following procedure.

---

---

**Note:** All previous database scripts (from earlier releases) are also provided in the package.

---

---

1. Make sure the database connection is available on the machine where \$PACKAGEDIR is located, make sure you have write permissions.
2. Back up the current database schema.
3. To update the database schema to AIP 12.0.2, execute the following commands:

---

---

**Note:** When running the scripts in this section the following errors may be encountered: "ORA-01418" and "ORA-02264". These errors can be ignored.

---

---

```
cd $PACKAGEDIR/aip/12.0.2/[OS]/online/12.0.2
sqlplus schema_owner/password@database
SQL> @12.0.2.sql
```

## AIP Online J2EE Web Application Upgrade

---

**Note:** WAS 5.1.1 is used for the AIP 12.0.2 Online J2EE Web Application.

---

1. If time zone has changed, perform the following to correct this issue:
  - a. Open the WebSphere Administration Console (WAS) that is to be used for administering the update of AIP Online application – `http://<server>:<port>/admin`.
  - b. Click **Servers – Application Servers**.
  - c. Under **Application Servers**, click the server name that will host the AIP application. For example, server1 on server1 page.
  - d. Make sure the **Configuration** tab is selected.
  - e. Under **Additional Properties**, click **Process Definition** on Process Definition page.
  - f. Under **Additional Properties**, click the Java Virtual Machine on Java Virtual Machine page and enter Generic JVM arguments as follows:
 

```
-Duser.timezone=<timezone symbol>
```

 where `<timezone symbol>` would be BST for British Standard Time, CDT for Central Daylight Savings Time, and so on.

---

**Note:** These instructions assume that the AIP 12.0.1 application is already deployed and operational. If you wish to re-install the AIPOnlineApp.ear file, refer to Chapter 5 of the AIP 12.0 Installation Guide. Any customizations made to AIP 12.0.1 will need to be manually replicated in the AIP 12.0.2 patch. Refer to Chapter 7 of the AIP 12.0 Online Administration Guide for information on customizations.

---

2. Log on to the UNIX Web server where WebSphere 5.1.1 is installed and running the AIP 12.0.1 application. Overwrite the previous AIPOnlineApp.ear file with the one provided with the patch:
 

```
$PACKAGEDIR/aip/12.0.2/[OS]/online/AIPOnlineApp.ear
```
3. Open the WebSphere Administration Console that is to be used for administering the update of AIP Online application – `http://<server>:<port>/admin`.
4. Click **Applications – Enterprise Application**.
5. Select the check box next to AIPOnlineApp, and then click **Stop**. The AIPOnlineApp application on WebSphere stops.
6. Select the check box next to AIPOnlineApp, and click **Uninstall**.
7. Click **Install**.
8. Under **Preparing for the application update**, click the **Server Path** option and set this field to the path where the AIPOnlineApp.ear file is located.

**Example of Server Path:**

```
/u00/websp/aip120/AIPOnlineAppServer120/AIPOnlineApp.ear
```

9. Click **Next**.
10. In the Generate Default Bindings window, leave all default settings and click **Next**.

---

**Note:** An Application Security Warning for the was.policy file may appear. Ignore this warning if displayed because it does not affect the AIP Online application.

---

11. Click **Continue**.
12. Under **Step 1: Provide options to perform the installation**, leave all default settings and click **Next**.
13. Under **Step 2: Provide options to perform the EJB Deploy**, select ORACLE\_V9I for Deploy EJBs Option - Database Type and click **Next**.
14. 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.
15. 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
```

16. 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
17. 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**.
18. Under **Step 6: Map virtual hosts for web modules**, leave all fields as default and click **Next**.

19. Under **Step 7: Map modules to application servers**, perform the following:
  - a. Select the server\_AIP option in the Clusters and Servers textbox  
**Example:** Websphere:cell=server\_name:2810,node=server1,server=server\_AIP
  - b. Check both OrderSenderEJB and AIPOnlineWAR modules
  - c. Click **Apply**. The Server fields should automatically be refreshed with the sever\_AIP information.
  - d. Click **Next**.
20. Under **Step 8: Ensure all unprotected 2.0 methods have the correct level of protection**, leave all fields as default and click **Next**.
21. Under **Step 9: Summary**, verify all installation information is correct, and click **Finish**. This may take several minutes. When the installation is complete, the following message appears:  
 "Application AIPOnline installed successfully"
22. Click the **Save to Master Configuration** link when it appears, and then click **Save** in the Save to Master Configuration section. Once the save is completed, you are re-directed to the WebSphere Application Server Administrative Console.
23. On the Enterprise Applications page, start the updated AIP Online application by selecting the check box next to this application and clicking the **Start** button. Make sure the status of the new application is up (green arrow).

---

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

---

The first time the AIP Online application was deployed, a config directory and a data directory were created under INSTALL\_DIR. For more information, refer to "Configure the AIP Online Application" section in Chapter 5 of the Installation Guide. Also, note the path of the license-aip.bin file that came with AIP 12.0.

24. Load the updated AIP Online application by entering the following URL in a browser: http://<server>:<http\_port>/aiponline:
  - server = name or IP address of the server where WebSphere is running
  - http\_port = WAS HTTP port as defined by the HTTPTransport\_1 value in the file WAS\_HOME/config/cells/<cell>/nodes/<node>/servers/server1/server.xml**Example:** http://server:9080/aiponline
25. A page displaying a link to the setup page displays. Click on this link. The Oracle Retail AIP Online Setup page appears.
26. In the **Directory structure** section, set the Configuration directory and Data directory to the appropriate server target paths.
  - Configuration directory = INSTALL\_DIR/config
  - Data directory = INSTALL\_DIR/data
27. Under **Application Licensing**, set the License file field to the license-aip.bin file path.
  - License file – INSTALL\_DIR/AIPOnlineAppServer/license-aip.bin

28. Under **Database setup**, set the following fields as shown below:
- Database type – Oracle
  - Database name – Oracle database SID name
  - Username and password – Oracle AIP schema owner and password
  - Network host – IP address / server name where the Oracle database is running
  - Port Number – Oracle database port (e.g. 1521)
  - Schema name – Oracle AIP schema
  - Dump file name – Leave this field blank unless directed by Oracle Retail.
29. Under **E-mail setup**, retain the default settings for the following fields because this version of AIP Online does not provide E-mail functionality.
- External Host Name: localhost:http\_port
  - E-mail From Address: admin@server.com
  - SMTP Mail Server: localhost
  - E-mail test address: optional

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

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30. Under **Integration**, retain the default settings for all integration fields displayed.
31. Under **Security**, set the following fields as appropriate and click **Next** to proceed.
- Administration hosts – Comma-separated list of IP address/mask values to select the clients who are allowed to log in to perform system administration.

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

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- SSL available – Select this option if the application server is configured for SSL (https) access.
- CA certificate – Select this option if the server certificate in use was obtained from a recognized Certificate Authority (such as Verisign).

The Oracle Retail AIP Online Setup: Part II: Confirm Settings page appears if no configuration errors were encountered.

32. Verify that the settings displayed are correct and click **Next**.

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**Note:** If any values are incorrect, click the back button in the browser to return to the previous page and make the necessary adjustments.

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The Oracle Retail AIP Online Setup: Part III: Installing page briefly appears, followed by the Oracle Retail AIP Online: Part IV: Status page. A message appears to inform you that the installation was successful and that you need to restart the application server to continue configuring AIP Online. Review the installation log to ensure that no errors were encountered during the installation process.

33. Restart the WebSphere application server to apply the AIP Online configuration changes.
34. If necessary, start the AIP Online application through the WebSphere Administrative Console as stated below.
  - a. On the Enterprise Applications page, start the AIP Online application by selecting the check box next to this application.
  - b. Click **Start**.
  - c. Make sure the status of the AIP Online application is now up (green arrow). The AIP Online application is updated and configured with the AIP 12.0.2 patch.
35. Perform the procedures from the following sections in Chapter 5 of the Installation Guide.
  - Create AIP Online Enterprise
  - Create AIP Online Users