

Oracle® Retail Invoice Matching

Installation Guide

Release 13.0.7

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Oracle Retail Invoice Matching Installation Guide, Release 13.0.7

Oracle welcomes customers' comments and suggestions on the quality and usefulness of this document.

Your feedback is important, and helps us to best meet your needs as a user of our products. For example:

- Are the implementation steps correct and complete?
- Did you understand the context of the procedures?
- Did you find any errors in the information?
- Does the structure of the information help you with your tasks?
- Do you need different information or graphics? If so, where, and in what format?
- Are the examples correct? Do you need more examples?

If you find any errors or have any other suggestions for improvement, then please tell us your name, the name of the company who has licensed our products, the title and part number of the documentation and the chapter, section, and page number (if available).

Note: Before sending us your comments, you might like to check that you have the latest version of the document and if any concerns are already addressed. To do this, access the new Applications Release Online Documentation CD available on My Oracle Support and www.oracle.com. It contains the most current Documentation Library plus all documents revised or released recently.

Send your comments to us using the electronic mail address: retail-doc_us@oracle.com

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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 Invoice Matching Release 13.0.7 documentation set:

- *Oracle Retail Invoice Matching 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, 13.0) or a later patch release (for example, 13.0.7). If you are installing the base release or additional patch releases, read the documentation for all releases that have occurred since the base release before you begin installation. Documentation for patch releases can contain critical information related to the base release, as well as information about code changes since the base release.

Improved Process for Oracle Retail Documentation Corrections

To more quickly address critical corrections to Oracle Retail documentation content, Oracle Retail documentation may be republished whenever a critical correction is needed. For critical corrections, the republication of an Oracle Retail document may at times **not** be attached to a numbered software release; instead, the Oracle Retail document will simply be replaced on the Oracle Technology Network Web site, or, in the case of Data Models, to the applicable My Oracle Support Documentation container where they reside.

This process will prevent delays in making critical corrections available to customers. For the customer, it means that before you begin installation, you must verify that you have the most recent version of the Oracle Retail documentation set. Oracle Retail documentation is available on the Oracle Technology Network at the following URL:
<http://www.oracle.com/technetwork/documentation/oracle-retail-100266.html>

An updated version of the applicable Oracle Retail document is indicated by Oracle part number, as well as print date (month and year). An updated version uses the same part number, with a higher-numbered suffix. For example, part number E123456-02 is an updated version of a document with part number E123456-01.

If a more recent version of a document is available, that version supersedes all previous versions.

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/technetwork/documentation/oracle-retail-100266.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

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.”

This is a code sample

It is used to display examples of code

Preinstallation Tasks

Check Database Server Requirements

General Requirements for a database server running Oracle Retail Invoice Matching include:

Supported on 10gR2 and 11gR2	Versions Supported
Database Server OS	OS certified with Oracle Database 10gR2 and 11gR2 Enterprise Edition. Options are: ▪ AIX 5.3 ▪ AIX 6.1 (Actual hardware or LPARs) ▪ Solaris 10 Sparc (Actual hardware or Logical Domains) ▪ Oracle Linux 4 Update 5 for x86-64 (Actual hardware or Oracle virtual machine) ▪ Red Hat Enterprise Linux 4 Update 5 (RHEL 4.5) for x86-64 (Actual hardware or Oracle virtual machine) ▪ Oracle Linux 5 for x86-64 (Actual hardware or Oracle virtual machine) ▪ Red Hat Enterprise Linux 5 (RHEL 5) for x86-64 (Actual hardware or Oracle virtual machine) ▪ HP-UX 11.23 (Integrity 64-bit) ▪ HP-UX 11.31 (Integrity 64-bit)
Database Server (10gR2)	Oracle Database 10g Release 2 Enterprise Edition (10.2.0.5 patchset required) with the following components: ▪ Oracle Database 10g ▪ Oracle Partitioning ▪ Oracle Net Services ▪ Oracle Call Interface (OCI) ▪ Oracle Programmer ▪ Oracle XML Development Kit ▪ Database Vault (Optional) ▪ DBConsole (if Database Vault is installed) ▪ Companion CD Patches: ▪ 10.2.0.5 patchset: 8202632 Others components: ▪ Perl 5.0 or later ▪ X-Windows interface

Supported on 10gR2 and 11gR2	Versions Supported
Database Server (11gR2)	Oracle Database 11g Release 2 (11.2.0.3) Enterprise Edition with the following components: ▪ Oracle Partitioning ▪ Example CD Patches: 13036331 ORA-1031 "insufficient privileges" when granting privileges multiple times Others components: ▪ Perl 5.0 or later ▪ X-Windows interface

Note: The ReIM database objects are bundled with the RMS database schema installer. For Release 13.0.7, ReIM supports the following options for enhanced data security:

- ReIM 13.0.7 supports enhanced data protection using Oracle Database Vault with Oracle Database 10g Release 2.
- Oracle Retail Sales Audit (ReSA) 13.0.7 supports transparent data encryption (TDE) with Oracle Database 10g Release 2 and the Advanced Security option.

See the *Oracle Retail Merchandising System Installation Guide* for more information about using these security options.

Check Application Server Requirements

General requirements for an application server capable of running the Oracle Retail Invoice Matching application include:

Supported on	Versions Supported
Application Server OS	OS certified with Oracle Application Server 10g 10.1.3.5. Options are: - AIX 5.3 - AIX 6.1 (Actual hardware or LPARs) - Solaris 10 Sparc (Actual hardware or Logical Domains) - Oracle Linux 4 Update 5 for x86-64 (Actual hardware or Oracle virtual machine) - Red Hat Enterprise Linux 4 Update 5 (RHEL 4.5) for x86-64 (Actual hardware or Oracle virtual machine) - Oracle Linux 5 for x86-64 (Actual hardware or Oracle virtual machine) - Red Hat Enterprise Linux 5 (RHEL 5) for x86-64 (Actual hardware or Oracle virtual machine) - HP-UX 11.23 (Integrity 64-bit) - HP-UX 11.31 (Integrity 64-bit)
Application Server	Oracle Application Server 10g 10.1.3.5 running Java 5.x or 6.x.

Note: This release of ReIM is only supported in a managed OC4J instance as part of OracleAS 10g. It is not supported on OC4J standalone.

Verify Single Sign-On

If ReIM will not be deployed in a Single Sign-On environment, skip this section.

- If Single Sign-On is to be used, verify the Oracle Infrastructure Server 10g has been installed. Verify the OAS HTTP server is registered with the Infrastructure Oracle Internet Directory as a partner application.

Check Client PC and Web Browser Requirements

Requirement	Version
Operating system	Windows 2000 or XP
Display resolution	1024x768
Processor	minimum1GHz
Memory	minimum of 512MBytes
Networking	Intranet with at least 10Mbps data rate
JAVA	JRE 6.0 (1.6+)
Browser	Microsoft Internet Explorer version 8.0 or 9.0. Mozilla Firefox 10.0.0.6+ or Mozilla Firefox ESR 17

Supported Oracle Retail Products

Requirement	Version
Oracle Retail Merchandising System (RMS)/Oracle Retail Trade Management (RTM)/Oracle Retail Sales Audit (ReSA)	13.0.7
Oracle Retail Data Warehouse (RDW)	13.0.2
SIM (via RMS)	13.0.7

Supported Oracle Retail Integration Technologies

Requirement	Version
Oracle Retail Extract, Transform and Load (RETL)	13.0.6

Supported Oracle Products

Note: For integration with Oracle E-Business Suite, an Oracle Retail integration accelerator patch is available for download. This patch enables the integration between Oracle E-Business Suite and some Oracle Retail applications.

Integration Technology	Version
Oracle E-Business Suite (Accounts Payable)	12.0.4 For support in implementing this integration, contact Oracle Customer Support and follow all typical Oracle Retail processes.
PeopleSoft Enterprise Financials	9.0 Oracle Retail applications can be integrated with PeopleSoft Enterprise Financials. See the <i>Oracle Application Integration Architecture 2.4: Installation and Upgrade Guide</i> for specific information on integrating your systems and supported versions.

RAC and Clustering

Real Application Cluster Database and Oracle Application Server Clustering for Oracle Retail Invoice Matching has been validated to run only on Linux:

The Oracle Retail products have been validated against a 10.2.0.3 RAC database. When using a RAC database, all JDBC connections should be configured to use OCI connections rather than THIN connections. It is suggested that when using OCI connections, the Oracle Retail products database be configured in the tnsnames.ora file used by the Oracle Application Server installations.

Clustering for Oracle Application Server 10.1.3 is managed as an Active-Active cluster accessed through a hardware Load Balancer. It is suggested that a VirtualHost be added to the OAS 10.1.3 reflecting the Virtual Server Name configured in the load balancer. It is also suggested that the OC4J select method be configured to prefer the use of local OC4J instances. The Oracle Retail products are currently not validated to be distributable at the application level in an OAS 10.1.3 cluster.

Clustering for Oracle Application Server 10.1.2.2 is managed as an Active-Active cluster accessed through a hardware Load Balancer. It is suggested that the Web Cache installation included with OAS 10.1.2.2 be configured to reflect all application server Mid-Tier installations. Validation has been completed utilizing a RAC 10.2.0.3 Oracle Internet Directory database with the OAS 10.1.2.2 cluster.

References for Configuration:

- Oracle® Application Server High Availability Guide 10g Release 3 (10.1.3) Part Number B15977-02
- Oracle® Application Server High Availability Guide 10g Release 2 (10.1.2) Part Number B14003-05
- Oracle® Database Oracle Clusterware and Oracle Real Application Clusters Administration and Deployment Guide 10g Release 2 (10.2) Part Number B14197-03

ReIM Database

The ReIM database objects are bundled with the RMS database schema patch installer. To install the ReIM database objects see the *RMS Database Installation - Patch* chapter in the *RMS Installation Guide*. Run the database schema patch installer, and select the ReIM option on the product selection page.

Note: [Appendix: RMS DB Patch Installer Screens](#) contains details on screens and fields in the RMS database schema patch installer.

Application Installation

These instructions apply to new installations and upgrades. If you are upgrading a previous 13.0.x installation, the application installer upgrades the application and backs up certain files from the previous installation (see *Backups Created by the Installer* from this section). To ensure that the previous installation is properly undeployed, you must provide the same application deployment name and context root as the previous installation.

Before proceeding you must install Oracle Application Server 10g 10.1.3.5 listed in the Chapter 1 of this document. The ReIM application is deployed to an OC4J instance within the OracleAS10g installation.

It is assumed Oracle Database has already been configured and loaded with the appropriate ReIM schema for your installation.

Create a New OC4J Instance and Group for ReIM

Skip to the next section if you are redeploying to an existing OC4J group in Oracle Application Server 10.1.3.5.

The ReIM application must be deployed to its own dedicated OC4J group. For instructions on how to create a new OC4J group and instance(s), see the *Adding and Deleting OC4J Instances in the Reconfiguring Application Server Instances* chapter of the *Oracle Application Server Administrator's Guide*.

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

Example: reim_oc4j

 reim_group

Create this OC4J instance and group as documented in the *Oracle Application Server Administrator's Guide*.

Example:

```
$ORACLE_HOME/bin/createinstance
-instanceName reim_oc4j -groupName reim_group
```

3. (Required only if ReIM is being installed on AIX.) Be aware that ReIM requires an upgrade of the Java version when running on AIX. The version must be at least JRE version 1.5 SR7. If ReIM will be installed on AIX, then you will need to modify the \$ORACLE_HOME/opmn/conf/opmn.xml to upgrade the Java version that ReIM uses. Locate the OC4J instance you just created for ReIM, and add or modify the java-bin within the start-parameters section.

Example:

```
<process-type id="reim_oc4j" module-id="OC4J"
status="enabled">
  <module-data>
    <category id="start-parameters">
```

```
<data id="java-bin"
value="path/to/JAVA_HOME/bin/java"/>
...
</category>
...
</module-data>
...
</process-type>
```

-
4. Force OPMN to reload the configuration file.

Example: `$ORACLE_HOME/opmn/bin/opmnctl reload`

5. When prompted for the oc4jadmin password, provide the same administrative password you gave for the AS10g installation. All OC4J instances running Oracle Retail applications must have the same oc4jadmin password.
6. Start the OC4J instance. You can do this through the Enterprise Manager web interface or on the command line using the opmnctl utility.

Example: `$ORACLE_HOME/opmn/bin/opmnctl @cluster
startproc ias-component=reim_group`

7. Verify that the OC4J group is fully started. If you are using the Enterprise Manager web interface, the instance(s) should have a green arrow indicating that they are running. On the command line, verify that each instance has a status of Alive.

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

8. If you are unable to start an 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.

Expand the ReIM Application Distribution

1. Log in to the UNIX server as the user who owns the OracleAS 10g installation. Create a new staging directory for the ReIM application distribution (reim13application.zip). There should be a minimum of 600 MB disk space available for the application installation files.

Example: `$ORACLE_HOME/j2ee/reim_oc4j/reim-staging`

This location is referred to as `INSTALL_DIR` for the remainder of this chapter.

2. Copy `reim13application.zip` to `INSTALL_DIR` and extract its contents.

Clustered Installations – Preinstallation Steps

Skip this section if you are not clustering the application server.

There are no additional steps to take before running the installer for ReIM.

Note: Previous releases of ReIM required the OC4J instance names and OC4J group name to be identical. This is no longer the case, as OC4J grouping has changed between OAS 10.1.3.0 and 10.1.3.5.

Run the ReIM Application Installer

Once you have an OC4J instance that is configured and started, you can run the ReIM application installer. This installer configures and deploys the ReIM application.

Note: [Appendix: ReIM Application Installer Screens](#) contains details on every screen and field in the application installer.

Note: It is recommended that the installer be run as the same UNIX account which owns the application server ORACLE_HOME files. This method takes full advantage of the installer's capabilities. If the installer is run as a different user, the Manual Deployment Option must be selected.

1. Change directories to `INSTALL_DIR/reim/application`.
2. Set the `ORACLE_HOME` and `JAVA_HOME` environment variables. `ORACLE_HOME` should point to your AS10g installation. `JAVA_HOME` should point to the Java 5.0 or Java 6.0 (1.6.0) JDK located at `$ORACLE_HOME/jdk`.
3. If you are using an X server such as Exceed, set the `DISPLAY` environment variable so that you can run the installer in GUI mode (recommended). If you are not using an X server, or the GUI is too slow over your network, unset `DISPLAY` for text mode.
4. Run the `install.sh` script. This launches the installer. After installation is completed, a detailed installation log file is created (`reim13install.<timestamp>.log`).

Resolving Errors Encountered During Application Installation

If the application installer encounters any errors, it halts execution immediately. You can run the installer in silent mode so that you do not have to retype the settings for your environment. See [Appendix: Installer Silent Mode](#) of this document for instructions on silent mode.

See [Appendix: Common Installation Errors](#) of this document for a list of common installation errors.

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

Oracle Configuration Manager

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

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

<https://metalink.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>

Clustered Installations – Post-Installation Steps

If you are installing the ReIM application to a clustered Oracle Application Server environment, there are some extra steps you need to take to complete the installation. In these instructions, the application server node whose ORACLE_HOME you used for the ReIM installer is referred to as the *master node*. All other nodes are referred to as the *remote nodes*.

1. The ReIM batch files should be copied from the master node to each of the remote nodes under the same path as on the master node. You should take the \$ORACLE_HOME/j2ee/<reiminstance>/reim-batch directory and copy it onto the remote nodes under the same path.
2. All of the OC4J instances in the group should be restarted for the jndi_providers.xml changes to be picked up.

Example: \$ORACLE_HOME/opmn/bin/opmnctl @cluster
restartproc ias-component=reim_group

Manual Deployment Option

Skip this section if you chose the default option of allowing the installer to complete installation to the application server.

The installer includes the option to configure the application locally and skip deployment to the application server. If this option is chosen, the installer makes the configured application files available under
<INSTALL_DIR>/reim/application/reim13/configured-output/.

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

1. Inspect the contents of the <INSTALL_DIR>/reim/application/reim13/configured-output/appserver/ORACLE_HOME directory, and then overlay the files in the application server's ORACLE_HOME, using the same directory structure. This installs library files required by the application, any required application server configuration changes, and the ReIM batch programs.
2. Restart the OC4J instance where ReIM will be deployed.

Example: \$ORACLE_HOME/opmn/bin/opmnctl @cluster
restartproc ias-component=reim_group

3. Deploy the ReIM war file to the OC4J group using the Enterprise Manager web interface. The configured war file is located at `<INSTALL_DIR>/reim/application/reim13/configured-output/reim13.war`. When deploying the war file, you should provide the same application name you gave to the installer. These values were stored in the `<INSTALL_DIR>/reim/application/ant.install.properties` file by the installer for later reference.

Backups Created by Installer

The ReIM application installer backs up a previous batch script installation by renaming it from `reim-batch` to `reim-batch.<timestamp>`. This is done to prevent the removal of any custom changes you might have. These backup directories can be safely removed without affecting the current installation.

Example: `reim-batch.200803011726`

Test the ReIM Application

After the application installer completes you should have a working ReIM application installation. To launch the application, open a web browser and go to `http://host:httpport/contextroot/index.jsp`.

Example: `http://myhost:7777/reim/index.jsp`

Oracle Retail provides test cases that allow you to smoke test your installation. Refer to the *Oracle Retail Merchandising Installation Test Cases* document; Doc ID 559560.1.

reim.properties

The `reim.properties` file contains most of the settings for the ReIM application. Many properties in this file are set by the installer to get a working application up and running, but you may want to modify other settings in this file.

You can find this file under

`ORACLE_HOME/j2ee/<instancename>/applications/<appname>/<appname>/WEB-INF/classes/com/retex/reim`.

See the *ReIM Operations Guide* regarding the settings in `reim.properties`.

integration.properties

The `integration.properties` file contains most of the settings for the webservice financial integration. This file is set in place by the installer, however, it must be manually configured in order for webservices to function properly.

You can find this file under

`ORACLE_HOME/j2ee/<instancename>/applications/<appname>/<appname>/WEB-INF/classes/com/retex/reim`.

See the *ReIM Operations Guide* regarding the settings in `integration.properties`.

ReIM Batch Scripts

The ReIM application installer configures and installs the batch scripts under `ORACLE_HOME/j2ee/<instance>/reim-batch`.

The batch scripts are copies of the same generic file. Their file names determine which functionality is run.

The two settings that are needed for the scripts to run correctly are the `REIMHOME` and `JAVA_HOME` variables.

- `REIMHOME` = application directory created during deployment
- `JAVA_HOME` = Java 5.0 or Java 6.0 (1.6.0) installation located at `$ORACLE_HOME/jdk`

Example: `REIMHOME=J2EE_HOME/applications/reim`
`JAVA_HOME=/u00/webadmin/product/10.1.3/OracleAS_1/jdk`

WebHelp Files

The application installer automatically copies the web help files to the proper location. They are accessible from the help links within the application.

Single Sign-On

Skip this section if ReIM is not used within an Oracle Single Sign-On environment.

Note: This section assumes the Oracle Application Server HTTP Server has already been registered with the Oracle Single Sign-On server via the `regssso.sh` script. See the Oracle Single Sign-On documentation for details.

If you are using ReIM in an Oracle Single Sign-On environment, then the ReIM root context must be protected. Edit the `mod_osso.conf` file, `$ORACLE_HOME/Apache/Apache/conf/mod_osso.conf`. The following lines should be inserted immediately before the line consisting of `</IfModule>`.

```
<Location /reim>
    require valid-user
    AuthType Basic
</Location>

<Location /reim/javascript>
    require valid-user
    AuthType Basic
    Allow from All
    Satisfy any
</Location>

<Location /reim/images>
    require valid-user
    AuthType Basic
    Allow from All
    Satisfy any
</Location>
```

ReIM Reports Installation

The ReIM 13.0.7 patch does not contain a Reports component. There are no installation tasks for this section. See the *RMS 13.0.1 Installation Guide* for the instructions for initial setup of Oracle BI Publisher for ReIM reports.

Appendix: RMS Database Patch Installer Screens

You need the following details about your environment for the installer to successfully patch the ReIM database schema.

Screen: Product Selection

The screenshot shows a Windows-style window titled "Oracle Retail Merchandise Operations Management Patch". Inside the window, there is a blue header bar with the "ORACLE" logo. Below the header, the title "Product Selection" is displayed. The main area contains the instruction "Please select which product or products you would like to install." followed by three options: "RMS/RPM" with an unchecked checkbox, "ReIM" with a checked checkbox, and "Allocation" with an unchecked checkbox. At the bottom of the window, there are four buttons: "Cancel", "Back", "Next", and "Install".

Fields on this screen:

Field Title	Product Selection
Field Description	By default the RMS database schema patch installer creates the database objects for RMS/ReSA/RTM and RPM. Optionally, the database objects for ReIM and/or Allocation may be installed at the same time or later.
Example	ReIM

Screen: RMS Database Schema Details

The screenshot shows a Windows-style window titled "Oracle Retail Merchandise Operations Management Patch". The window has a blue header bar with the Oracle logo. Below the header, the title "RMS Database Schema Details" is displayed in a grey box. The main area contains a paragraph: "Please provide information on a pre-existing database user for this RMS installation. The installer will authenticate as this user and create the RMS database objects." Below this, there are three input fields: "RMS schema" with the value "RMSUSER", "RMS schema password" with masked characters "*****", and "RMS Oracle SID" with the value "mydb". At the bottom, there are four buttons: "Cancel", "Back", "Next", and "Install".

Fields on this screen:

Field Title	RMS schema
Field Description	Provide the RMS database user here. The installer logs into the database as this user to patch the RMS schema. This user must already exist in the database when the RMS database schema patch installer is run.
Example	RMSUSER

Field Title	RMS schema password
Field Description	Database password for the RMS schema Owner.

Field Title	RMS Oracle SID
Field Description	Oracle system identifier for the database where the RMS patch will be applied.
Example	mydb

The database settings provided are validated by the installer when you advance to the next screen.

Screen: Apply ReIM DB Patch

The screenshot shows a window titled "Oracle Retail Merchandise Operations Management Patch". The window has a blue header with the Oracle logo. Below the header, the title "Apply ReIM DB Patch" is displayed. The main content area contains the following text: "You have chosen to apply a patch. The installer will run the reim_controller.ksh script provided with the patch you have downloaded separately." Below this, it states: "This directory must contain a reim_controller.ksh script". There is a text field labeled "Patch Directory" containing the path ":hemapatch/mom-dbpatch". To the right of the text field is a button labeled "Select Folder". At the bottom of the window, there are four buttons: "Cancel", "Back", "Next", and "Install".

Fields on this Screen:

Field Title	Patch Directory
Field Description	Provide the directory path to the ReIM patch you want to install. The installer runs only the patch you provide. Note: The directory you choose must contain a reim_controller.ksh file.
Example	/path/to/rms/dbschemapatch/mom-dbpatch for all 13.0.x patches Note: The patch option is intended for patches starting with 13.0.3.1.

Screen: Continue ReIM DB Patch

Continue ReIM DB Patch?

Choose "Yes" if you are resuming a previous patch installation and want to continue where that patch left off. This option is used if a previous patch attempt failed and you have resolved the issues and wish to go forward with the patch. Any scripts that have previously run will not be rerun. To continue a patch, the path provided on the previous screen must point to the same location that was used to run the patch originally. Choose "No" if you want to start a fresh patch installation.

Continue ReIM DB Patch? ☒ Yes ☐ No

Cancel Back Next Install

Fields on this Screen:

Field Title	Continue ReIM DB Patch?
Field Description	The patch process allows you to continue a previously run patch if it stopped before completion or failed. If Yes is selected, any scripts that were previously run for the ReIM patch will be skipped. If No is selected, the patch will start from the beginning. Note: To continue a patch, the content of the processed directory in the Patch Directory chosen on the previous screen must be the same as it was after the previous patch was stopped. If you choose No, this directory will be cleared, and you will not be able to continue this patch in the future.

Appendix: ReIM Application Installer Screens

You need the following details about your environment for the installer to successfully deploy the ReIM application. Depending on the options you select, you may not see some screens or fields.

Screen: Data Source Details

The screenshot shows a window titled "Invoice Matching 13 Installer - Oracle Retail". Inside, there's a blue header with the "ORACLE" logo. Below it, a section titled "Data Source Details" contains the instruction: "Provide the details for the Invoice Matching data source". There are four input fields: "ReIM/RMS 13 JDBC URL" with the value "jdbc:oracle:thin:@myhost:1525:mydb", "ReIM/RMS 13 schema" with "RMSUSER", "ReIM/RMS 13 schema password" with masked characters "*****", and "RMS 13 schema owner" with "RMSUSER". A note states: "Enter the RMS schema owner. This is usually the same as the ReIM/RMS schema entered above". At the bottom, there are four buttons: "Cancel", "Back", "Next", and "Install".

Fields on this screen:

Field Title	ReIM/RMS 13 JDBC URL
Field Description	URL used by the ReIM application to access the ReIM/RMS database schema. See Appendix: URL Reference for expected syntax.
Destination	reim.properties
Examples	jdbc:oracle:thin:@myhost:1525:mydb jdbc:oracle:oci:@mydb

Field Title	ReIM/RMS 13 schema
Field Description	RMS database user for accessing the ReIM tables. This should match what was given in the <i>RMS 13 schema</i> field of the ReIM database installer.
Destination	reim.properties
Example	RMSUSER

Field Title	ReIM/RMS 13 schema password
Field Description	Password for the JDBC username. This should match what was given in the <i>ReIM 13 schema password</i> field of the ReIM database installer.
Destination	reim.properties

Field Title	RMS 13 schema owner
Field Description	Database user which owns the RMS and ReIM tables. This usually has the same value as the <i>ReIM/RMS 13 schema</i> field above.
Destination	reim.properties
Example	RMSUSER

Screen: Application Server Details

Invoice Matching 13 Installer - Oracle Retail

ORACLE

Application Server Details

Hostname

The OPMN request port is found in ORACLE_HOME/opmn/conf/opmn.xml

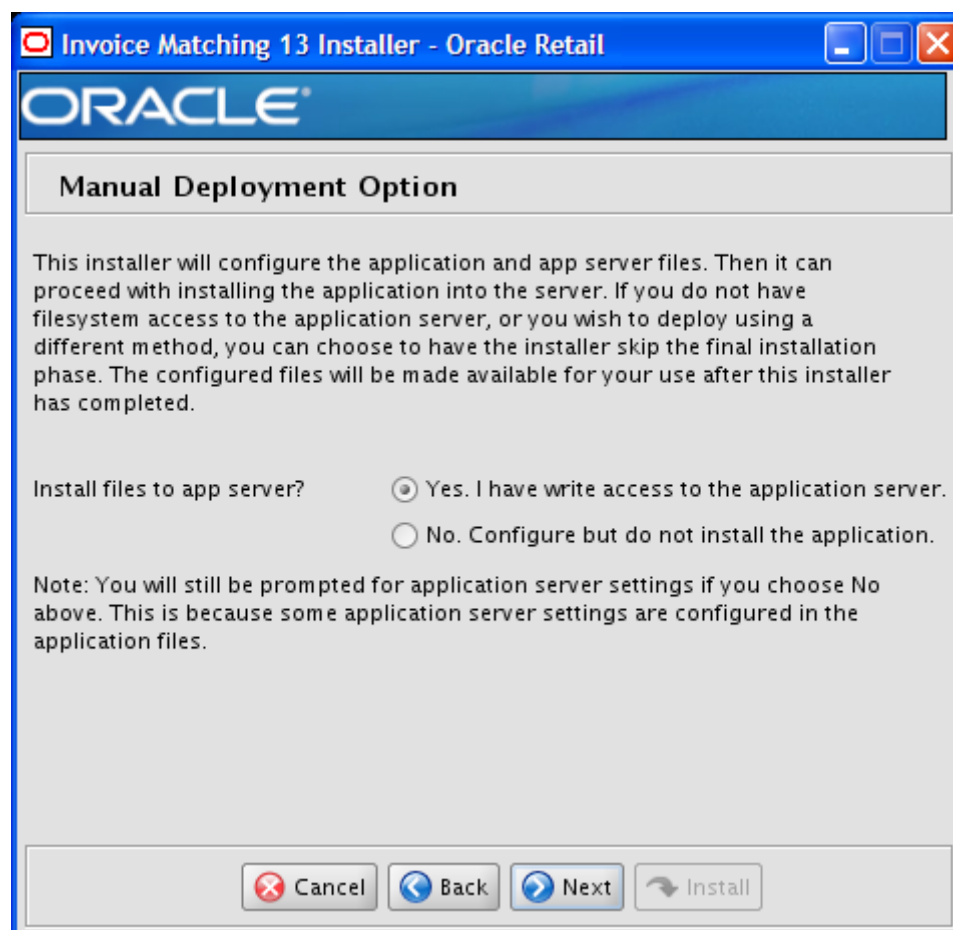
OPMN request port

Cancel Back Next Install

Fields on this screen:

Field Title	Hostname
Field Description	Hostname of the application server
Example	myhost

Field Title	OPMN request port
Field Description	Port on which OPMN listens for requests to forward on to OC4J instances. This port can be found in the ORACLE_HOME/opmn/conf/opmn.xml file: <pre><port local="6100" remote="6200" request="6003"/></pre> Note: The installer attempts to present a valid default value based on the ORACLE_HOME given.
Example	6004

Screen: Manual Deployment Option**Fields on this screen:**

Field Title	Install files to app server?
Field Description	If you do not have write access under ORACLE_HOME, you can still use the installer to gather your settings and configure the ReIM files locally in the staging area. Then, at a later time, an administrator can manually copy over the ReIM files and deploy the war file. If you select this option, instructions are printed to the console and the installer log file for the steps needed to complete the installation.

Screen: Application Deployment Details

Invoice Matching 13 Installer - Oracle Retail

ORACLE

Application Deployment Details

The default values shown below are examples

ReIM 13 app deployment name

ReIM 13 context root

ReIM 13 OC4J instance

The OC4J instance(s) for ReIM must belong to an OC4J group created specifically for this ReIM deployment. This installer will deploy the ReIM application into all instances in the group. If you are not clustering the application across multiple OC4J instances then you should have a ReIM group with just one member OC4J instance. Do NOT use default_group in this field.

ReIM 13 OC4J group

Fields on this screen:

Field Title	ReIM 13 app deployment name
Field Description	Name by which this ReIM application is identified in the application server
Example	reim13

Field Title	ReIM 13 context root
Field Description	Path under the HTTP URL that will be used to access the ReIM application. For example, a context root of 'reim' results in the application being accessed at http://host:port/reim/index.jsp.
Example	reim13

Field Title	ReIM 13 OC4J instance
Field Description	Name of the OC4J instance that was created for this ReIM application.
Example	reim_oc4j

Field Title	ReIM 13 OC4J group
Field Description	Name of the OC4J group that was created for this ReIM application. The OC4J instance given for the ReIM OC4J Instance field should be a member of this group. The installer will deploy the ReIM application to all OC4J instances which are members of this group. For this reason, you should not use default_group. A new group dedicated to ReIM should be created instead.
Example	reim_group

Screen: OC4J Administrative User

Invoice Matching 13 Installer - Oracle Retail

ORACLE

OC4J Administrative User

Enter the administrative user and password for the OC4J instance to which the application will be deployed.

OC4J admin user: oc4jadmin

OC4J admin password: *****

Buttons: Cancel, Back, Next, Install

Fields on this screen:

Field Title	OC4J admin user
Field Description	Username of the admin user for OC4J instance to which the ReIM application is being deployed.
Example	oc4jadmin

Field Title	OC4J admin password
Field Description	Password for the OC4J admin user. You chose this password when you created the OC4J instance (managed OC4J) or when you started the instance for the first time (standalone OC4J).

Appendix: Installer Silent Mode

Repeating an Installation Attempt

In addition to the GUI and text interfaces of the ReIM installer, there is a silent mode that can be run. This mode is useful if you wish to run a repeat installation attempt without going through the installer screens again.

The installer runs in two distinct phases. The first phase involves gathering settings from the user. At the end of the first phase, a properties file named `ant.install.properties` is created with the settings that were provided. Then the second phase begins, where this properties file is used to provide your settings for the installation.

To skip the first phase and re-use the `ant.install.properties` file from a previous run, follow these instructions:

1. Edit the `ant.install.properties` file and correct any invalid settings that may have caused the installer to fail in the previous run.
2. Run the installer again with the **silent** argument.
`install.sh silent`

Appendix: URL Reference

Both the database schema and application installers for the Invoice Matching product asks for certain URLs. These include the following.

JDBC URL for a Database

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

Thick Client Syntax: jdbc:oracle:oci:@<sid>

<sid>: system identifier for the database.

Example: jdbc:oracle:oci:@mysid

Thin Client 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 tasks to deploy an application to an OC4J group. 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* for further details.

Syntax (managed OC4J): deployer:cluster:opmn://<host>:<port>/<group>

- <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.
- <group>: Name of the OC4J group where the application will be deployed.

Example:
deployer:cluster:opmn://myhost:6003/reim_group

Syntax (standalone OC4J): 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

Appendix: Common Installation Errors

This section provides some common errors encountered during installation of ReIM.

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 Ctrl+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 could mean that your JAVA_HOME is pointed to an older version of the JDK than is supported by the installer. Set JAVA_HOME to \$ORACLE_HOME/jdk from the Oracle Application Server 10.1.3 installation 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 (see [Appendix: URL Reference](#)), 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 (see [Appendix: Installer Silent Mode](#) of this document).

“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. See <http://bugs.sun.com> for details.

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

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.

“Couldn't 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.

Error while unpacking the application archive

Symptom:

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

```
07/12/19 10:53:17 Notification ==>Error while unpacking reim13.war  
java.util.zip.ZipException: error in opening zip file
```

Solution:

This is a known bug (BugID 6330834) related to Solaris and NFS in Oracle Application Server 10.1.3.3. Follow the workaround documented for this bug: in the opmn.xml file in \$ORACLE_HOME/opmn/conf to add the following parameter to the java-options for the instance you are installing.

```
-Doc4j.autoUnpackLockCount=-1
```

After making this change you should reload OPMN, restart the affected OC4J instance(s), and retry the retail application installation.