

Oracle® Retail Invoice Matching

Installation Guide

Release 11.0.15

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Contents

Preface	vii
Audience	vii
Related Documents	vii
Customer Support	vii
Review Patch Documentation	vii
Oracle Retail Documentation on the Oracle Technology Network	viii
Conventions	viii
1 Hardware and Software Requirements	1
Database Server	1
Application Server	1
Client PC and Web Browser Requirements	1
2 Database Installation Instructions	3
Mount CD-ROM on the Database Server	3
Update ReIM Types	3
Update ReIM Tables	3
Update ReIM Database Objects	3
3 Application Installation Instructions	5
Upgrade Oracle Application Server 10g	5
Create a New OC4J Instance and Group for ReIM	5
Copy and Extract Invoice Matching 11.0.15 Files from CDRom	6
Install the ReIM Application	6
Edit the reim.properties File	8
Edit the ReIMResources.properties File	10
Install the WebHelp Files	10
Install Batch Files	11
Load ReIM 11 in a Browser	11

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 11.0.15 documentation set:

- *Oracle Retail Invoice Matching Batch Schedule*
- *Oracle Retail Invoice Matching Data Model*
- *Oracle Retail Invoice Matching Release Notes*
- *Oracle Retail Invoice Matching Operations Guide Addendum*

Customer Support

To contact Oracle Customer Support, access My Oracle Support at the following URL:
<https://metalink.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

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

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 (with the exception of the Data Model which is only available with the release packaged code):

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.”

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.

Hardware and Software Requirements

Database Server

General requirements for a database server capable of running ReIM include:

Supported on:	Versions Supported:
Database Server OS	OS certified with Oracle Database 9i Release 2 Enterprise Edition. Options are: <ul style="list-style-type: none"> ▪ AIX 5.2 ▪ AIX 5.3 ▪ Solaris 9 (SPARC) ▪ HP-UX 11.11.
Database Server	Oracle Database 9i Release 2 Enterprise Edition

Application Server

General requirements for an application server capable of running ReIM include:

Supported on:	Versions Supported:
Application Server OS	OS certified with Oracle 10G Application Server (OC4J 9.0.4). Options are: <ul style="list-style-type: none"> ▪ AIX 5.2 ▪ AIX 5.3 ▪ Solaris 9 (SPARC) ▪ HP-UX 11.11
Application Server	Oracle 10G Application Server (OC4J 9.0.4)

Client PC and Web Browser Requirements

Requirement	Version
Operating system	Windows 2000 or XP
Display resolution	1024x768
Processor	minimum1GHz
Memory	minimum of 512MBytes
Sun JRE	1.5.0.6
Microsoft Internet Explorer	version 5.5 or higher

Database Installation Instructions

This patch overwrites existing code. Before applying the ReIM 11.0.15 patch:

- Ensure that ReIM 11.0.14 and RMS 11.0.14 are installed.
- Backup the database.
- Backup the ReIM software and note any existing custom code modifications made within the modules. Customizations must be reapplied over the new version of the module (or the fix may need to be applied to the custom version of the code).
- Review the enclosed ReIM 11.0.15 Patch Release Notes (reim-11015-rn.pdf).

Note: These instructions refer to REIM11DEV as the Oracle owning schema.

Mount CD-ROM on the Database Server

1. Copy the reim11015dbpatch.zip file from the CD /dbserverunix directory to a newly created staging directory on your UNIX server.
2. Unzip the file by entering:
`unzip reim11015dbpatch.zip`

Update ReIM Types

1. Change directories to staging area/types
2. Log in to SQL*Plus as REIM11DEV and run the following command:
`SQL> @obj_reim_acct_seg_type.sql`

Update ReIM Tables

1. Change directories to staging area/dbcs
2. Log into sqlplus as REIM11DEV and run the following command:
`SQL> @patch11015dbcs.sql`
3. Check the log file patch11015dbcs.log for any errors.

Update ReIM Database Objects

1. Change directories to staging area/db_objects
2. Log into sqlplus as REIM11DEV and run the following command:
`SQL> @patch11015reim.sql`
3. Check the log file patch11015reim.log for any errors.

Application Installation Instructions

These instructions apply to new installations and upgrades.

Before proceeding you must install Oracle Application Server 10g 10.1.3.3 plus the patches listed in the Chapter 1 of this document. The ReIM application will be 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.

Upgrade Oracle Application Server 10g

The ReIM 11.0.15 release requires the application server to be 10.1.3.3. Before running the ReIM 11.0.15 application installer you need to patch your Oracle Application Server up to version 10.1.3.3 plus the patches listed in Chapter 1 of this document.

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 10.1.3.3

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 Adding and Deleting OC4J Instances in the Reconfiguring Application Server Instances chapter of the *Oracle Application Server Administrator's Guide*.

1. Log into the server which 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-instance
 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-instance -groupName reim_group

3. 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.
4. 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

5. Verify that the OC4J group was 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

- 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.

Note: The reim.war file released with Invoice Matching 11.0.15 is a full Invoice Matching 11.0.15 application.

Copy and Extract Invoice Matching 11.0.15 Files from CDROM

- Log into the application server as the retek user and determine where the Invoice Matching application file reim11015appserver.zip will be installed. There should be a minimum of 150 MB disk space available for the application installation files.
- Copy the file reim11015appserver.zip from the CD/appserverunix directory to the newly created staging directory. This staging directory is referred to as INSTALL_DIR for the remainder of this chapter.
- Change directories to the staging directory and extract the reim11015appserver.zip file.

```
> unzip reim11015appserver.zip
```

The following directories and files should now exist in INSTALL_DIR:

- reim.war
- reim11src.zip

Install the ReIM Application

- Launch Enterprise Manager.
- Select the instance that was created in the Create a New OC4J Instance and Group for ReIM section.
- Select the Applications tab.
- Select Deploy. The Deploy: Select Archive screen appears.

ORACLE Enterprise Manager 10g
Application Server Control

Setup Logs Help Logout

Deploy: Select Archive

Archive

The following types of archives can be deployed: J2EE application (EAR files), Web Modules (WAR files), EJB Modules (EJB JAR files) and Resource Adapter Modules (RAR files).

☒ Archive is present on local host. Upload the archive to the server where Application Server Control is running.

Archive Location:

☐ Archive is already present on the server where Application Server Control is running.

Location on Server:

The location on server must be the absolute path or the relative path from \$eehome

Deployment Plan

The deployment plan is an XML file that contains the deployment settings for an application. If you do not have a deployment plan, one will be created automatically during the deployment process. Later in the deployment process, you can optionally edit the deployment plan and save it for a future deployment of this application.

☒ Automatically create a new deployment plan.

The deployment plan settings will be based on OC4J defaults and information contained in the archive.

☐ Deployment plan is present on local host. Upload the deployment plan to the server where Application Server Control is running.

Plan Location:

☐ Deployment plan is already present on server where Application Server Control is running.

Location on Server:

The location on server must be the absolute path or the relative path from \$eehome

Setup | Logs | Help | Logout

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[About Oracle Enterprise Manager 10g Application Server Control](#)

- Enter the location (INSTALL_DIR) where the reim.war file is located and click Next. Wait for file to be uploaded to the application server. The Deploy: Application Attributes screen appears.

ORACLE Enterprise Manager 10g
Application Server Control

Help Logout

Select Archive Application Attributes Deployment Settings

Deploy: Application Attributes

Cancel Back Step 2 of 3 Next

Archive Type Web Module (WAR file)
Archive Location D:\Oracle Work\ReIM11\11.0.15\reim\reim.war\reim.war
Deployment Plan Creating a new plan

Application Name reim11
Parent Application default
Bind Web Module to Site default-web-site
Context Root

Web Module	Context Root
reim.war	reim11mock

Cancel Back Step 2 of 3 Next

Help | Logout

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About Oracle Enterprise Manager 10g Application Server Control

6. Enter reim11 for Application Name and Context Root and click Next. The Deploy: Deployment Settings screen appears.

ORACLE Enterprise Manager 10g
Application Server Control

Help Logout

Select Archive Application Attributes Deployment Settings

Deploy: Deployment Settings

Cancel Back Step 3 of 3 Deploy

Archive Type Web Module (WAR file)
Archive Location D:\Oracle Work\ReIM11\11.0.15\reim\reim.war\reim.war
Deployment Plan Creating a new plan

Application Name reim11
Parent Application default
Bind Web Module to Site default-web-site
Context Root reim11mock

Deployment Tasks
The table below provides a set of common deployment tasks you might want to perform for this application. Only those tasks that apply to the current application are enabled.

Task Name	Go To Task	Description
Map Environment References		Map any environment references in your application (for example, data sources) to physical entities currently present on the operational environment.
Select Security Provider		A security provider acts as the source for available users and groups when mapping security roles.
Map Security Roles		Map any security roles exposed by your application to existing users and groups. The list of users and groups is obtained from the security provider you selected for this application.
Configure EJBs		Configure the Enterprise JavaBeans in your application.
Configure Clustering		Configure clustering of your application.
Configure Class Loading		Manipulate the classpath of your application.

Advanced Deployment Plan Editing
Click Edit Deployment Plan to set more advanced deployment options.

Edit Deployment Plan

Save Deployment Plan
After you make changes, you can save the deployment plan to your local disk. You can then use the saved deployment plan to redeploy this application later.

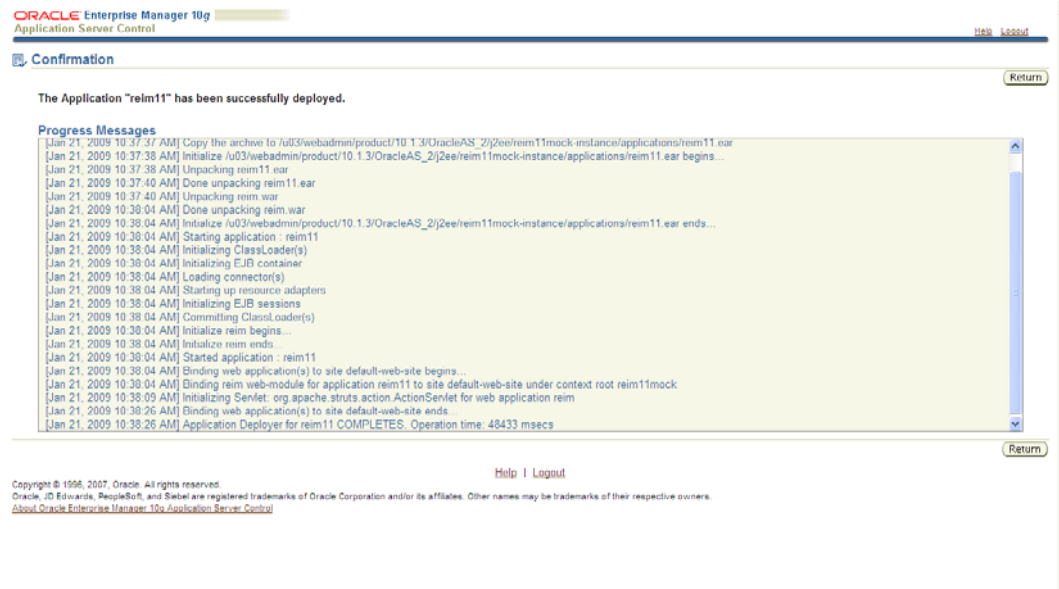
Save Deployment Plan

Cancel Back Step 3 of 3 Deploy

Help | Logout

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About Oracle Enterprise Manager 10g Application Server Control

7. Verify your settings and click Deploy. The Confirmation screen appears.



8. Click Return to complete the installation.

Edit the reim.properties File

1. Stop 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 stopproc
process-type=reim-oc4j-instance

2. Change directories to \$ORACLE_HOME/j2ee/reim-oc4j-instance/applications/reim11/reim11/WEB-INF/classes/com/retek/reim.

Note: This folder changes depending on the choices made during deployment.

3. Edit the reim.properties file by changing the following parameters:
 - url and datasource.url = jdbc\:oracle\:thin\:@db_server\:db_port\:db_sid
 - Username and datasource.username = additional Oracle user with RMS permissions
 - Password and datasource.password = username password or RMS/ReIM schema owner password
 - Schema.owner and datasource.schema.owner= RMS/ReIM database schema owner
 - Datasource.datasource =
 - rms11 for RMS11
 - rms10 for RMS10.1
 - rms10_2 for RMS 10.2

- beanDriver =
 - com.retek.reim.foundation.rms11 for RMS 11
 - com.retek.reim.foundation.rms10 for RMS 10.1
 - com.retek.reim.foundation.rms10_2 for RMS10.2
- authentication_source = LDAP or DATABASE for Authentication.
- language = language in which text will be displayed
- country = locale in which currency, calendar, etc. will be displayed
- Log.online.file = path and filename for log
- logpath = path to log directory (this directory needs to exist)
- batchlogpath = path to log directory for batch (this directory needs to exist)
- batcherrorlogpath = path to log directory for error messages (this directory needs to exist)
- DATA_PATH = path to directory where batch scripts exist (this directory needs to be created)
- ReIMLoggerLogLevel = settings various levels listed in file

Example:

```

url=jdbc:oracle:thin:@mspdev24.us.oracle.com:1521:pkg11aix
username=rms11en
password=rettek
datasource.url=jdbc:oracle:thin:@mspdev24.us.oracle.com:1521:pkg1
1aix
datasource.username=rms11en
datasource.password=rettek
datasource.schema.owner=rms11en
datasource.datasource=rms11
datasource.bean.driver=com.retek.reim.foundation.rms11
datasource.datasource=rms11
authentication_source=DATABASE
language=en
country=US
log.online.file=/u03/webadmin/product/10.1.3/OracleAS_2/j2ee/r
eim11mock-instance/log/reim-online.log
logpath=/u03/webadmin/product/10.1.3/OracleAS_2/j2ee/reim11
mock-instance/log
batchlogpath=/u03/webadmin/product/10.1.3/OracleAS_2/j2ee/re
im11mock-instance/log
batcherrorlogpath=/u03/webadmin/product/10.1.3/OracleAS_2/j2
ee/reim11mock-instance/log
DATA_PATH=/
ReIMLoggerLogLevel= DEBUG

```

4. 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
startproc process-type=reim-oc4j-instance

Edit the ReIMResources.properties File

Note: These steps are only necessary if ReIM is installed in a language other than English. By default ReIM displays English text.

1. Change directories to \$ORACLE_HOME/j2ee/reim-oc4j-instance/applications/reim11/reim11/WEB-INF/classes/com/retex/reim/resources/.
2. Create a backup copy of the existing ReIMResources.properties.

Example: cp ReIMResources.properties
ReIMResources_en_US.properties

3. Replace the ReIMResources.properties file with desired language properties file.

Example: cp ReIMResources_fr_FR.properties
ReIMResources.properties

Install the WebHelp Files

1. Unzip contents of reim-help-en.zip to folder \$ORACLE_HOME/j2ee/<instance-name>/applications/<context-root>/<application-name>.

Example: \$ORACLE_HOME/j2ee/reim11-
instance/applications/reim11/reim

Note: This folder changes depending on the choices made during deployment.

2. Choose replace all.

Install Batch Files

1. Choose the directory where you want batch files to be installed.
2. Extract files from the batchscripts.zip file.
3. Edit the BatchRunner.sh file by changing the following parameters:
 - ORACLE_HOME, REIM_HOME
 - REIM_HOME=\$ORACLE_HOME/j2ee/<instance-name>/applications/<context-root>/<app-name>

Example: \$ORACLE_HOME/j2ee/reim11-instance/applications/reim11/reim

Note: This folder changes depending on the choices made during deployment and reim instance name.

- ORACLE_HOME=\$ORACLE_HOME

Example:
ORACLE_HOME=/u03/webadmin/product/10.1.3/Oracle AS_2

Note: This folder changes depending on your environment.

Note: ORACLE_HOME needs to be set in this file or by environment variable before running batches.

See the *REIM Operations Guide* for additional information.

Load ReIM 11 in a Browser

1. Load ReIM 11 by entering the following URL in your browser:
http://<server>:<port>/context root/index.jsp
 - server = name or IP address of the server where OC4J is running
 - port = port number set in http-web-site.xml above
 - context root = value specified during deployment (reim11)

Example: <http://server:8888/reim11/index.jsp>

2. On the ReIM logon form, enter the appropriate Username/Password information in the corresponding fields:
 - Username = ADMIN (default ReIM 11 user)
 - Password = retek (default ReIM 11 user RETEK password)