

**Oracle® Retail Invoice Matching**  
Installation Guide  
Release 12.0.4

June 2007

Copyright © 2007, Oracle. All rights reserved.

Primary Author: Paul Kehler

The Programs (which include both the software and documentation) contain proprietary information; they are provided under a license agreement containing restrictions on use and disclosure and are also protected by copyright, patent, and other intellectual and industrial property laws. Reverse engineering, disassembly, or decompilation of the Programs, except to the extent required to obtain interoperability with other independently created software or as specified by law, is prohibited.

The information contained in this document is subject to change without notice. If you find any problems in the documentation, please report them to us in writing. This document is not warranted to be error-free. Except as may be expressly permitted in your license agreement for these Programs, no part of these Programs may be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose.

If the Programs are delivered to the United States Government or anyone licensing or using the Programs on behalf of the United States Government, the following notice is applicable:

U.S. GOVERNMENT RIGHTS Programs, software, databases, and related documentation and technical data delivered to U.S. Government customers are "commercial computer software" or "commercial technical data" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the Programs, including documentation and technical data, shall be subject to the licensing restrictions set forth in the applicable Oracle license agreement, and, to the extent applicable, the additional rights set forth in FAR 52.227-19, Commercial Computer Software – Restricted Rights (June 1987). Oracle Corporation, 500 Oracle Parkway, Redwood City, CA 94065

The Programs are not intended for use in any nuclear, aviation, mass transit, medical, or other inherently dangerous applications. It shall be the licensee's responsibility to take all appropriate fail-safe, backup, redundancy and other measures to ensure the safe use of such applications if the Programs are used for such purposes, and we disclaim liability for any damages caused by such use of the Programs.

Oracle, JD Edwards, PeopleSoft, and Siebel are registered trademarks of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

The Programs may provide links to Web sites and access to content, products, and services from third parties. Oracle is not responsible for the availability of, or any content provided on, third-party Web sites. You bear all risks associated with the use of such content. If you choose to purchase any products or services from a third party, the relationship is directly between you and the third party. Oracle is not responsible for: (a) the quality of third-party products or services; or (b) fulfilling any of the terms of the agreement with the third party, including delivery of products or services and warranty obligations related to purchased products or services. Oracle is not responsible for any loss or damage of any sort that you may incur from dealing with any third party.

## Value-Added Reseller (VAR) Language

- (i) the software component known as **ACUMATE** developed and licensed by Lucent Technologies Inc. of Murray Hill, New Jersey, to Oracle and imbedded in the Oracle Retail Predictive Application Server – Enterprise Engine, Oracle Retail Category Management, Oracle Retail Item Planning, Oracle Retail Merchandise Financial Planning, Oracle Retail Advanced Inventory Planning and Oracle Retail Demand Forecasting applications.
- (ii) the **MicroStrategy** Components developed and licensed by MicroStrategy Services Corporation (MicroStrategy) of McLean, Virginia to Oracle and imbedded in the MicroStrategy for Oracle Retail Data Warehouse and MicroStrategy for Oracle Retail Planning & Optimization applications.
- (iii) the **SeeBeyond** component developed and licensed by Sun Microsystems, Inc. (Sun) of Santa Clara, California, to Oracle and imbedded in the Oracle Retail Integration Bus application.
- (iv) the **Wavelink** component developed and licensed by Wavelink Corporation (Wavelink) of Kirkland, Washington, to Oracle and imbedded in Oracle Retail Store Inventory Management.
- (v) the software component known as **Crystal Enterprise Professional and/or Crystal Reports Professional** licensed by Business Objects Software Limited (“Business Objects”) and imbedded in Oracle Retail Store Inventory Management.
- (vi) the software component known as **Access Via**<sup>TM</sup> licensed by Access Via of Seattle, Washington, and imbedded in Oracle Retail Signs and Oracle Retail Labels and Tags.
- (vii) the software component known as **Adobe Flex**<sup>TM</sup> licensed by Adobe Systems Incorporated of San Jose, California, and imbedded in Oracle Retail Promotion Planning & Optimization application.
- (viii) the software component known as **Style Report**<sup>TM</sup> developed and licensed by InetSoft Technology Corp. of Piscataway, New Jersey, to Oracle and imbedded in the Oracle Retail Value Chain Collaboration application.
- (ix) the software component known as **i-net Crystal-Clear**<sup>TM</sup> developed and licensed by I-NET Software Inc. of Berlin, Germany, to Oracle and imbedded in the Oracle Retail Central Office and Oracle Retail Back Office applications.
- (x) the software component known as **WebLogic**<sup>TM</sup> developed and licensed by BEA Systems, Inc. of San Jose, California, to Oracle and imbedded in the Oracle Retail Value Chain Collaboration application.
- (xi) the software component known as **DataBeacon**<sup>TM</sup> developed and licensed by Cognos Incorporated of Ottawa, Ontario, Canada, to Oracle and imbedded in the Oracle Retail Value Chain Collaboration application.



---

---

# Contents

<b>Preface .....</b>	<b>vii</b>
Audience .....	vii
Related Documents .....	vii
Customer Support .....	vii
Review Patch Documentation .....	vii
Oracle Retail Documentation on the Oracle Technology Network.....	vii
Conventions .....	viii
<b>1 Pre-Installation Tasks.....</b>	<b>1</b>
Check Application Server Requirements .....	1
Check Client PC and Web Browser Requirements .....	2
Client PC Requirements.....	2
Browser Requirements.....	2
Supported Oracle Retail Products .....	2
<b>2 RAC and Clustering .....</b>	<b>3</b>
<b>3 Database Installation Tasks.....</b>	<b>5</b>
Mount CD-ROM on the Database Server .....	5
Update DDL.....	5
Update Data .....	5
<b>4 Application Installation UNIX (Sun Solaris/AIX/HP-UX).....</b>	<b>7</b>
Create a New OC4J Instance for ReIM.....	7
Expand the ReIM Application Distribution .....	8
Clustered Installations – Pre-Install Steps.....	8
Run the ReIM Application Installer .....	9
Resolving Errors Encountered During Application Installation .....	9
Clustered Installations – Post-Install Steps .....	9
Manual Deployment Option .....	10
Backups Created by Installer .....	10
Test the ReIM Application.....	10
reim.properties .....	11
ReIM Batch Scripts.....	11
Web Help Files .....	11
<b>A Appendix: ReIM Application Installer Screens .....</b>	<b>13</b>
<b>B Appendix: Installer Silent Mode .....</b>	<b>19</b>
Repeating an Installation Attempt.....	19
<b>C Appendix: URL Reference .....</b>	<b>21</b>
JDBC URL for a Database.....	21
Deployer URI.....	21
<b>D Appendix: Common Installation Errors.....</b>	<b>23</b>
Database Installer Hangs on Startup .....	23
Unreadable Buttons in the Installer.....	23
“Unable to get a deployment manager” Message .....	23
“Could not create system preferences directory” Warning .....	24



---

---

# 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 12.0.4 documentation set:

- Oracle Retail Invoice Matching Release Notes
- Oracle Retail Invoice Matching Data Model

## 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.”

---

---

**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.](#)

---



---

# Pre-Installation Tasks

## Check Application Server Requirements

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

- UNIX based OS certified with Oracle Application Server 10g 10.1.3. Options include AIX 5.2, AIX 5.3, Solaris 9 (Sparc), and HP-UX 11.23 (PARISC).
- Oracle Application Server 10g 10.1.3 with the following patches:
  - 4992357 (ILLEGALACCESSERROR WHEN ATTEMPTING TO LOAD ORACLE.SQL.CHARACTERSET CLASS)
  - 4959854 (CANNOT RESTART MDB THROUGH OC4J ASCONSOLE)
  - 4645524 (RETEK : RMIINITIALCONTEXTFACTORY DOES NOT WORK PROPERLY WITH GLOBAL JNDI)
  - 4619599 (ABILITY TO CONTROL MDBS INITIAL STATE)

---



---

**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

---



---

- Oracle Enterprise Linux Requirements

### Operating System Version:

- Oracle Enterprise Linux 4 Update 4 for x86-64
- Minimum kernel version kernel-smp-2.6.9-42.0.0.1.EL.x86\_64

### Oracle RDBMS

- Oracle RDBMS 10g Release 2 Enterprise Edition for Linux x86-64
- Minimum 10.2.0.3 patchset
- Patches:
  - 5397953 (ORA-07445: [KKPAPITGETALL()+2152] [SIGSEGV] [ADDRESS NOT MAPPED TO OBJECT])
  - 5921386 WRONG RESULT WITH MERGE JOINT OUTER IN THE EXECUTION PLAN

### Oracle Application Server

- Oracle Application Server 10g Release 2 (10.1.2.0.2) for Linux x86
- Oracle Application Server 10g Release 3 (10.1.3.0) for Linux x86

### Oracle Retail Invoice Matching

- Configured with “No RIB” option

## Check Client PC and Web Browser Requirements

### Client PC Requirements

- Operating system is Windows 2000 or XP
- Display resolution: 1024x768
- Processor; minimum 1GHz
- Memory; minimum of 512MBytes
- Networking; Intranet with at least 10Mbps data rate.
- Sun JRE 1.4.2 32 bit

### Browser Requirements

- Microsoft Internet Explorer; version 5.5 or higher

## Supported Oracle Retail Products

Requirement	Version
Oracle Retail Merchandising System (RMS)/Oracle Retail Trade Management (RTM)/Oracle Retail Sales Audit (ReSA)	12.0.4
Oracle Retail Data Warehouse (RDW)	12.0

---

---

## RAC and Clustering

Real Application Cluster RDBMS & 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 10.1.2.0.2 is managed as an Active-Active cluster accessed through a hardware Load Balancer. It is suggested that the Web Cache installation included with OAS 10.1.2.0.2 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 10.1.2.0.2 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



---

---

## Database Installation Tasks

Before applying the ReIM 12.0.4 patch:

- Ensure that ReIM 12.0.3 and RMS 12.0.4 are installed.
- Review the enclosed ReIM 12.0.4 Patch Release Notes (*reim-1204-rn.pdf*).

### Mount CD-ROM on the Database Server

1. Mount the CD-ROM on the database server.
2. Create a staging directory and copy the *reim1204dbpatch.zip* file from the CD /*dbserverunix* directory.
3. Logon to the database server.
4. Change directories to the staging directory.
5. Unzip the file by entering:

```
unzip reim1204dbpatch.zip
```

---

---

**Note:** These instructions refer to *reim12dev* as the ReIM Oracle schema owner.

---

---

### Update DDL

1. Change directories to *<staging area>/dbcs*
2. Using SQL\*Plus, connect to the database as *reim12dev*.
3. Enter the following command:  

```
SQL> @patch1204dbcs.sql
```
4. View the file *patch1204dbcs.log* when finished.

### Update Data

1. Change directories to *<staging area>/data*
2. Using SQL\*Plus, connect to the database as *reim12dev*.
3. Enter the following command:  

```
SQL> @patch1204ctl.sql
```
4. View the file *patch1204ctl.log* when finished.



---

---

# Application Installation UNIX (Sun Solaris/AIX/HP-UX)

These instructions apply to new installations and upgrades. If you are upgrading a previous 12.0.x installation, the application installer will upgrade the application and back 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 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. You must also have the Java 1.4.2 SDK installed on your system.

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

## Create a New OC4J Instance for ReIM

You can skip this section if you are redeploying to an existing OC4J instance.

The ReIM application must be deployed to its own dedicated OC4J instance. For instructions on how to create a new OC4J instance, 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 OracleAS10g installation. Set your ORACLE\_HOME environment variable to point to this installation.
2. Choose a name for the new OC4J instance.

---

---

**Example:** reim-oc4j-instance

---

---

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

---

---

**Example:**  
\$ORACLE\_HOME/bin/createinstance  
-instanceName reim-oc4j-instance

---

---

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.

3. Configure the JDK for this OC4J instance. By default, new OC4J instances use the Java 1.5 JDK that is shipped with the application server. This release of ReIM requires Java 1.4.2.

For instructions on how to change the JDK for an OC4J instance, see the *Specifying the JDK in a Managed Configuration* section of the *OC4J Runtime Configuration* chapter of the *Oracle Containers for J2EE Configuration and Administration Guide*.

4. (AIX only) If the AS10g installation is on AIX, you must set the **ibm.cl.eagerresolution** property in \$ORACLE\_HOME/opmn/conf/opmn.xml. Add the definition of this property to the startup **java-options** for the OC4J instance.

Example:

```
<process-type id="reim-oc4j-instance" module-id="OC4J" status="enabled">
  <module-data>
    <category id="start-parameters">
      <data id="java-bin" value="/usr/java14/bin/java"/>
      <data id="java-options" value="-Dibm.cl.eagerresolution
-Djava.security.policy=$ORACLE_HOME/j2ee/reim-oc4j-
instance/config/java2.policy -Dhttp.webdir.enable=false"/>
```

Force OPMN to reload the configuration file.

---

---

**Example:** \$ORACLE\_HOME/opmn/bin/opmnctl reload

---

---

5. 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

---

---

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

---

---

**Example:** \$ORACLE\_HOME/opmn/bin/opmnctl status

---

---

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

## Expand the ReIM Application Distribution

1. Log into the UNIX server as the user who owns the OracleAS 10g installation. Create a new staging directory for the ReIM application distribution (reim12application.zip). There should be a minimum of 50 MB disk space available for the application installation files.

---

---

**Example:** \$ORACLE\_HOME/j2ee/reim-oc4j-  
instance/reim-staging

---

---

This location is referred to as INSTALL\_DIR for the remainder of this chapter.

2. Copy reim12application.zip to INSTALL\_DIR and extract its contents.

## Clustered Installations – Pre-Install Steps

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

All OC4J instances in the group must have the same instance name. The group must also be named identically to these OC4J instances. For example, you might have a group named "reim-oc4j-instance" whose members are all OC4J instances named "reim-oc4j-instance" on different ORACLE\_HOME's.

## 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 B contains details on every screen and field in the application installer.

---

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 a Java 1.4.2 JDK. The installer is not compatible with earlier versions of Java.
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: `reim12install.<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 don't have to retype the settings for your environment. See Appendix C of this document for instructions on silent mode.

See Appendix E of this document for a list of common installation errors.

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

## Clustered Installations – Post-Install 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 Allocation 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 process-type=reim-oc4j-instance`

---

## 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/reim12/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/reim12/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  
restartproc process-type=reim-oc4j-instance
```

---

3. Deploy the ReIM war file using the Enterprise Manager web interface. The configured war file is located at <INSTALL\_DIR>/reim/application/reim12/configured-output/reim12.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.200605011726
```

---

## 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
```

---

## 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/rettek/reim.

See the ReIM Operations Guide regarding the settings in reim.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 1.4.2 location on the server

---

---

**Example:** REIMHOME=J2EE\_HOME/applications/reim  
JAVA\_HOME=/usr/java

---

---

## Web Help Files

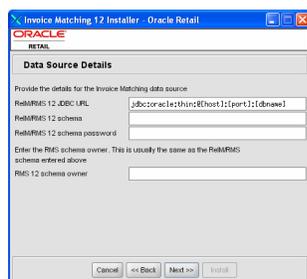
The application installer automatically copies the web help files to the proper location. They are accessible from the help links within the application.



## 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



Fields on this screen:

<b>Field Title</b>	ReIM/RMS 12 JDBC URL
<b>Field Description</b>	URL used by the ReIM application to access the ReIM/RMS database schema. See <i>Appendix D: URL Reference</i> for expected syntax.
<b>Destination</b>	reim.properties
<b>Example</b>	jdbc:oracle:thin:@myhost:1525:mydatabase
<b>Notes</b>	
<b>Field Title</b>	ReIM/RMS 12 schema
<b>Field Description</b>	RMS database user for accessing the ReIM tables. This should match what was given in the <i>RMS 12 schema</i> field of the ReIM database installer.
<b>Destination</b>	reim.properties
<b>Example</b>	RMS12USER
<b>Notes</b>	

<b>Field Title</b>	ReIM/RMS 12 schema password
<b>Field Description</b>	Password for the JDBC username. This should match what was given in the <i>ReIM 12 schema password</i> field of the ReIM database installer.
<b>Destination</b>	reim.properties
<b>Notes</b>	

<b>Field Title</b>	RMS 12 schema owner
<b>Field Description</b>	Database user which owns the RMS and ReIM tables. This will usually have the same value as the <i>ReIM/RMS 12 schema</i> field above.
<b>Destination</b>	reim.properties
<b>Example</b>	RMS12USER
<b>Notes</b>	

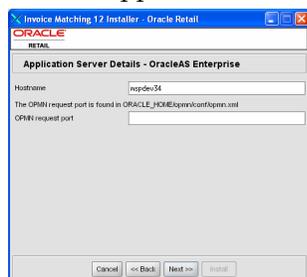
#### Screen: OC4J Server Type: Managed or Standalone?



#### Fields on this screen:

<b>Field Title</b>	Which type of OC4J server are you deploying to?
<b>Field Description</b>	<p>A managed OC4J server is part of a larger Oracle App Server enterprise environment and is managed by OPMN.</p> <p>A standalone OC4J server is a single instance installed by itself and is not controlled by OPMN.</p> <p>This Oracle Retail application release is only supported on managed OC4J.</p>
<b>Example</b>	managed
<b>Notes</b>	

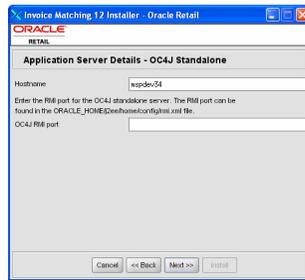
## Screen: Application Server Details - OracleAS Enterprise



Fields on this screen:

<b>Field Title</b>	Hostname
<b>Field Description</b>	Hostname of the application server
<b>Example</b>	myhost
<b>Notes</b>	
<b>Field Title</b>	OPMN request port
<b>Field Description</b>	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>&lt;port local="6100" remote="6200" request="6003"/&gt;</pre>
<b>Example</b>	6003
<b>Notes</b>	

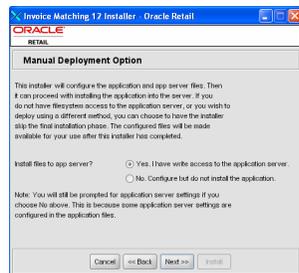
## Screen: Application Server Details - OC4J Standalone



Fields on this screen:

<b>Field Title</b>	Hostname
<b>Field Description</b>	Hostname of the application server
<b>Example</b>	myhost
<b>Notes</b>	
<b>Field Title</b>	OC4J RMI port
<b>Field Description</b>	Port on which the standalone OC4J server listens for connections. This setting can be found in the ORACLE_HOME/j2ee/home/config/rmi.xml file. <pre>&lt;rmi-server   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"   xsi:noNamespaceSchemaLocation="http://xmlns.oracle.com/oracleas/schema/rmi-server-10_0.xsd"   port="23791"</pre>
<b>Example</b>	23791
<b>Notes</b>	

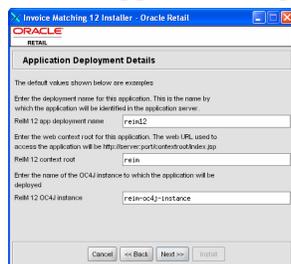
## Screen: Manual Deployment Option



Fields on this screen:

<b>Field Title</b>	Install files to app server?
<b>Field Description</b>	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.
<b>Destination</b>	
<b>Example</b>	
<b>Notes</b>	

### Screen: Application Deployment Details

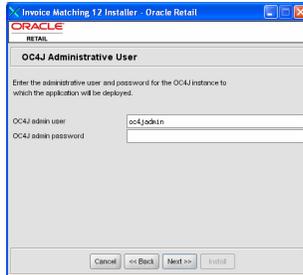


Fields on this screen:

<b>Field Title</b>	ReIM 12 app deployment name
<b>Field Description</b>	Name by which this ReIM application is identified in the application server
<b>Example</b>	reim12
<b>Notes</b>	
<b>Field Title</b>	ReIM 12 context root
<b>Field Description</b>	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.
<b>Example</b>	reim
<b>Notes</b>	

<b>Field Title</b>	ReIM 12 OC4J instance
<b>Field Description</b>	Name of the OC4J instance that was created for this ReIM application.
<b>Example</b>	reim-oc4j-instance
<b>Notes</b>	

Screen: OC4J Administrative User



Fields on this screen:

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

<b>Field Title</b>	OC4J admin password
<b>Field Description</b>	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).
<b>Notes</b>	

---

---

## 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 without retyping the settings you provided in the previous installation. It is also useful if you encounter errors in the middle of an installation and wish to continue.

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. The installer again with the **silent** argument.

---

---

**Example:** `install.sh silent`

---

---



---

---

## Appendix: URL Reference

Both the database schema and application installers for the Invoice Matching product will ask 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.

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

Used by the Oracle ANT tasks to deploy an application to an OC4J instance. The application installer does not ask the user for this value; it is constructed based on other inputs and written to the ant.install.properties file for input to the installation script. For repeat installations using silent mode, you may need to correct mistakes in the deployer URI.

---

---

**Note:** There are several different formats for the deployer URI depending on your cluster topology. Consult the *Deploying with the OC4J Ant Tasks* chapter of the *OC4J Deployment Guide* for further details.

---

---

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

- <host>: hostname of the OracleAS environment
- <port>: OPMN request port of the OracleAS environment. This can be found in the <ORACLE\_HOME>/opmn/conf/opmn.xml file.
- <instance>: Name of the OC4J instance where the application will be deployed.

---

---

**Example:** deployer:cluster:opmn://myhost:6003/reim-oc4j-instance

---

---

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 Control+C to cancel the installer, and investigate and solve the problem that is causing the tnsping <sid> command to hang. This can be caused by duplicate database listeners running.

### Unreadable Buttons in the Installer

If you are unable to read the text within the installer buttons, it probably means that your JAVA\_HOME is pointed to a pre-1.4.2 JDK. Set JAVA\_HOME to a Java development kit of version 1.4.2 or later and run the installer again.

### “Unable to get a deployment manager” Message

**Symptom:**

The application installer quits with the following error message:

```
[oracle:deploy] Unable to get a deployment manager.
[oracle:deploy]
[oracle:deploy] This is typically the result of an invalid deployer URI
format being supplied, the target server not being in a started state or
incorrect authentication details being supplied.
[oracle:deploy]
[oracle:deploy] More information is available by enabling logging --
please see the Oracle Containers for J2EE Configuration and
Administration Guide for details.
```

**Solution:**

This error can be caused by any of the following conditions:

- OC4J instance provided is not running.
- Incorrect OC4J instance name provided
- Incorrect OC4J administrative username and/or password
- Incorrect OPMN request port provided.

Make sure that the OC4J instance is running, and then check the **ant.install.properties** file for entry mistakes. Pay close attention to the input.deployer.uri (see Appendix D: *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 C 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.