

Oracle® Retail Invoice Matching
Installation Guide
Release 12.0.5

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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 12.0.5 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 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

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

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

| 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 |
| Sun JRE | 5.0 (1.5.0) |
| Microsoft Internet Explorer | 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) | 12.0.5 |
| Oracle Retail Data Warehouse (RDW) | 12.0 |

Supported Oracle Applications

| Requirement | Version |
|-------------------------|-------------------|
| Oracle E-Business Suite | 11.5.10 or 12.0.2 |

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 10.1.2.2 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

Database Installation Tasks

Before applying the ReIM 12.0.5 patch:

- Ensure that ReIM 12.0.4 and RMS 12.0.5 are installed.
- Review the enclosed ReIM 12.0.5 Patch Release Notes (reim-1205-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> @patch1205dbcs.sql`
4. View the file `patch1205dbcs.log` when finished.

Update Database Objects

1. Change directories to <staging area>/db_objects.
2. Using SQL*Plus, connect to the database as reim12dev.
3. Enter the following command:
`SQL> @patch1205reim.sql`
4. View the file `patch1205reim.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 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 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 RDBMS has already been configured and loaded with the appropriate ReIM schema for your installation.

Create a New OC4J Instance for ReIM

Skip to the next section titled “Upgrade the JDK in Existing OC4J Instance for ReIM” 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

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 startproc
 process-type=reim-oc4j-instance

5. 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`

6. 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.

Upgrade the JDK in Existing OC4J Instance for ReIM

The ReIM 12.0.5 application release requires a Java upgrade from version 1.4.2 to version 5.0 (1.5.0). If you are installing the ReIM 12.0.5 application into an OC4J instance running a previous version of ReIM you will need to change the `JAVA_HOME` for that instance before running the ReIM 12.0.5 application installer.

The default JDK for any OC4J instance in the Oracle Application Server 10g is a version 5.0 (1.5.0) JDK located at `$ORACLE_HOME/jdk`. You should restore this default setting by undoing the 1.4.2 JDK downgrade that was previously required for ReIM.

Steps to upgrade the JDK:

1. Shut down the OC4J instance if it is running.

Example: `$ORACLE_HOME/opmn/bin/opmnctl stopproc
process-type=reim-oc4j-instance`

2. Modify the `$ORACLE_HOME/opmn/conf/opmn.xml` file. Under the ReIM OC4J instance locate the "java-bin" parameter that configures the Java Virtual Machine binary used to run 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"/>  
    </category>  
  </module-data>  
</process-type>
```

Delete this line from `opmn.xml` so that the OC4J instance will go back to using the default JDK under `$ORACLE_HOME/jdk`.

3. Force OPMN to reload the configuration file

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

4. Update the Java path in the `$ORACLE_HOME/j2ee/<reim-oc4j-instance>/config/server.xml` file. This path is stored in a `<java-compiler>` element in the "extdirs" attribute.

Example:

```
<java-compiler name="javac" in-process="false"  
  options="-J-Xmx1024m -encoding UTF8"  
  extdirs="/usr/java14/jre/lib/ext" />
```

Replace the previous 1.4.2 `JAVA_HOME` path (`/usr/java14` above) with the fully-qualified path to `$ORACLE_HOME/jdk`.

Example:

```
<java-compiler name="javac" in-process="false"  
  options="-J-Xmx1024m -encoding UTF8"  
  extdirs="/u00/webadmin/product/10.1.3/OracleAS_1/jdk/jre/lib/ext" />
```


5. Delete the \$ORACLE_HOME/j2ee/<reim-oc4j-instance>/application-deployments directory. The files under this location must be re-generated using the new JDK. This is done automatically when you start the OC4J instance.
6. Start the OC4J instance.

Example: \$ORACLE_HOME/opmn/bin/opmnctl startproc
process-type=reim-oc4j-instance

7. Look for the OC4J initialization message to confirm that the OC4J instance started successfully. You should see this message in the OC4J-instance-specific log file under \$ORACLE_HOME/opmn/logs:

```
07/08/21 08:09:39 Oracle Containers for J2EE 10g (10.1.3.0.0) initialized
The OC4J instance is now ready for the ReIM 12.0.5 application to be installed.
```

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 the Java 5.0 (1.5.0) 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: 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 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 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 5.0 (1.5.0) installation located at \$ORACLE_HOME/jdk

Example: REIMHOME=J2EE_HOME/applications/reim
JAVA_HOME=/u00/webadmin/product/10.1.3/OracleAS_
1/jdk

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:

| Field Title | ReIM/RMS 12 JDBC URL |
|-------------------|--|
| Field Description | URL used by the ReIM application to access the ReIM/RMS database schema. See <i>Appendix D: URL Reference</i> for expected syntax. |
| Destination | reim.properties |
| Example | jdbc:oracle:thin:@myhost:1525:mydatabase |
| Notes | |

| | |
|--------------------------|---|
| Field Title | ReIM/RMS 12 schema |
| Field Description | 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. |
| Destination | reim.properties |
| Example | RMS12USER |
| Notes | |

| | |
|--------------------------|--|
| Field Title | ReIM/RMS 12 schema password |
| Field Description | 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. |
| Destination | reim.properties |
| Notes | |

| | |
|--------------------------|---|
| Field Title | RMS 12 schema owner |
| Field Description | 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. |
| Destination | reim.properties |
| Example | RMS12USER |
| Notes | |

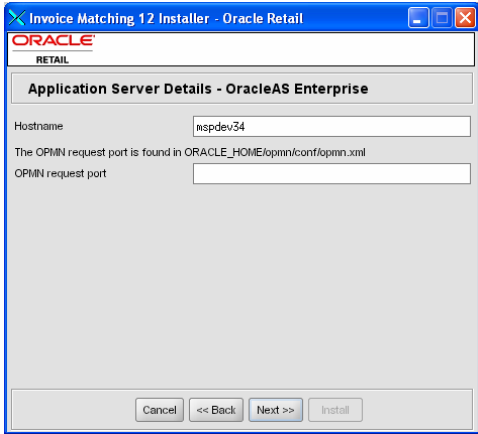
Screen: OC4J Server Type: Managed or Standalone?



Fields on this screen:

| | |
|--------------------------|--|
| Field Title | Which type of OC4J server are you deploying to? |
| Field Description | <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> |
| Example | managed |
| Notes | |

Screen: Application Server Details – OracleAS Enterprise

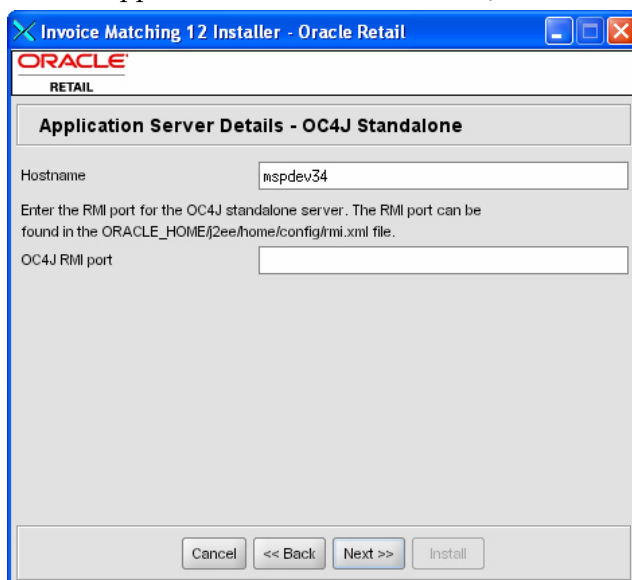


Fields on this screen:

| | |
|--------------------------|------------------------------------|
| Field Title | Hostname |
| Field Description | Hostname of the application server |
| Example | myhost |
| Notes | |

| | |
|--------------------------|--|
| 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: <port local="6100" remote="6200" request="6003"/> |
| Example | 6003 |
| Notes | |

Screen: Application Server Details – OC4J Standalone

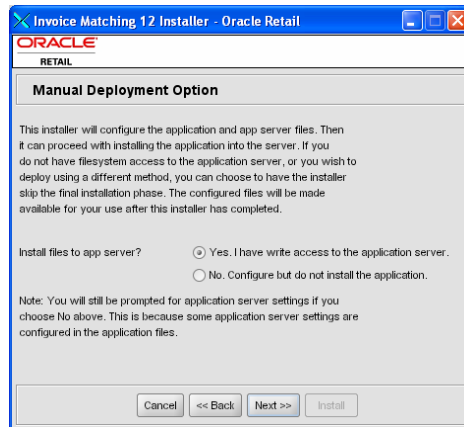


Fields on this screen:

| | |
|--------------------------|------------------------------------|
| Field Title | Hostname |
| Field Description | Hostname of the application server |
| Example | myhost |
| Notes | |

| | |
|--------------------------|---|
| Field Title | OC4J RMI port |
| Field Description | 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><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> |
| Example | 23791 |
| Notes | |

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. |
| Destination | |
| Example | |
| Notes | |

Screen: Application Deployment Details

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Application Deployment Details

The default values shown below are examples

Enter the deployment name for this application. This is the name by which the application will be identified in the application server.

ReIM 12 app deployment name

Enter the web context root for this application. The web URL used to access the application will be http://server:port/contextroot/index.jsp

ReIM 12 context root

Enter the name of the OC4J instance to which the application will be deployed

ReIM 12 OC4J instance

Fields on this screen:

| | |
|--------------------------|---|
| Field Title | ReIM 12 app deployment name |
| Field Description | Name by which this ReIM application is identified in the application server |
| Example | reim12 |
| Notes | |
| Field Title | ReIM 12 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 | reim |
| Notes | |
| Field Title | ReIM 12 OC4J instance |
| Field Description | Name of the OC4J instance that was created for this ReIM application. |
| Example | reim-oc4j-instance |
| Notes | |

Screen: OC4J Administrative User

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OC4J Administrative User

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

OC4J admin user:

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 |
| Notes | |
| 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). |
| Notes | |

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.

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 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 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.

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.