

Retek[®] Invoice Matching[™] 10.2.6

Installation Guide

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- Detailed step-by-step instructions to recreate.
- Exact error message received.
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Chapter 1 – Database server installation instructions

Before you apply the Invoice Matching patch:

- Make a backup of all your objects and database schema.
- Check that ReIM 10.2.5 are installed.
- Check that either RMS 10.1.10, RMS 10.2.2 or RMS 9.0.17 is installed.
- Review the enclosed Invoice Matching 10.2.6 Patch Release Notes (reim-1026-rn.pdf).
- Review each of the enclosed SIR documents.

Chapter 2 – Application server installation instructions

Oracle containers for J2EE – OC4J

UNIX (Sun Solaris/HPUX/AIX)



Note: Normally OC4J is installed in an existing Oracle 9iAS (9IAS_ORACLE_HOME) location. However, OC4J can be installed and run outside 9IAS_ORACLE_HOME. For this reason, ORACLE_HOME refers to the location where OC4J will be installed.

Copy and unpack install files from CDROM

- 1 Log into the UNIX system that will house the application server.
- 2 Create a directory for the install files. This directory will be referred to as <INSTALL_DIR> for the remainder of the UNIX Application Server section.
- 3 Copy the reim1026apppatch.tar file from the CDROM mount point to the <INSTALL_DIR>.
- 4 Once the copy is complete, untar the file to create the install directory structure:

```
> mkdir <INSTALL_DIR>
> untar reim1026apppatch.tar
UNIX> tar xvf reim1026apppatch.tar
```

The directory structure will look like this:

```
<INSTALL_DIR>/
    reconfigure/
    reconfigure.sh
    reim.war
```

- 5 The tar file may not retain the permissions settings they had when leaving Retek, so verify that the source code is protected by altering the permissions with the chmod command. Keep in mind there will be some directories that need to be written to during this install process.
- 6 Verify that all files are owned by retek and that user retek belongs to the dba group. Make any ownership and group changes if necessary.

Configure OC4J and Deploy the ReIM War File into the Default OC4J Application



Note: J2EE_HOME refers to \$ORACLE_HOME/j2ee/home.



Note: The variable <product> refers to the name of the ReIM war file, reim.war.

- 1 Edit reconfigure.sh to suit your environment.
 - Set JAVA_HOME to the JDK 1.3.x location on your server
 - Set REIM_BASE_DIR to a temporary staging directory for the reconfigured ReIM war file
 - Set REIM_WAR_FILE to the correct war file.

```
#!/bin/sh
## Environment
JAVA_HOME=/usr/j2se/bin/java
ANT_HOME=./reconfigure/ant
## ReIM specific
PATH=$ANT_HOME/bin:$PATH
REIM_WAR_FILE=reim.war
REIM_TEMP_DIR=/tmp/reim
REIM_BASE_DIR=/home /ReIM/
export REIM_WAR_FILE
export REIM_TEMP_DIR
export REIM_BASE_DIR
export JAVA_HOME
$ANT_HOME/bin/ant -verbose -buildfile reconfigure/reconfigure.xml
exit 0
```

- 2 Edit reconfigure/reconfigure.xml to suit your environment.




Note: Further explanation of these can be found in the operations guide.

```
<!-- change properties, these should be changed to reflect YOUR install -->
<propertyfile file="${REIM_TEMP_DIR}/WEB-INF/classes/com/rettek/reim/reim.properties">
  <entry key="url" value="jdbc:oracle:thin:@mspdev26:1522:rmsim8i" />
  <entry key="username" value="bimst90user" />
  <entry key="password" value="rettek" />
  <entry key="datasource" value="rms9"/>
  <entry key="logpath" value="${REIM_BASE_DIR}/ReIMLogs/90tst"/>
  <entry key="batcherrorlogpath" value="${REIM_BASE_DIR}/ReIMLogs/90tst"/>
  <entry key="batchlogpath" value="${REIM_BASE_DIR}/ReIMLogs/90tst"/>
  <entry key="DATA_PATH" value="${REIM_BASE_DIR}/ediDataFiles90"/>
  <entry key="schemaOwner" value="bimst90"/>
  <entry key="beanDriver" value="com.retek.reim.foundation.rms9."/>
  <entry key="authentication_source" value="DATABASE"/>
</propertyfile>
```


- 3 Run reconfigure.sh. This expands the war file in the base directory.
- 4 Backup the following files at \$J2EE_HOME/config:
 - application.xml
 - http-web-site.xml
 - global-web-application.xml
- 5 Back up the following objects currently deployed in \$J2EE_HOME/applications:
 - reim.war
 - reim/
- 6 Copy the war file from REIM_BASE_DIR to \$J2EE_HOME/applications.
- 7 Modify application.xml by adding another web-module element for the REIM product deployment.



Example: <web-module id="<product>" path="../applications/<product>.war" />

-  **Example:** <web-site port="8388" display-name=" Default Oracle9iAS Containers for J2EE HTTP Web Site">

 **Note:** **id** in <web-module> and **name** in <web-app> must be the same value.

-  **Example:** `<servlet>`
`<servlet-name>jsp</servlet-name>`

Start/Stop/Load the default OC4J application

- 1 To start the default OC4J container, issue the following command in \$J2EE_HOME:

```
> java -jar oc4j.jar &
```

“Oracle9iAS (9.0.3.0.0) Containers for J2EE initialized” (or similar) is displayed at the command line after successful startup.

- 2 To stop the default OC4J container, issue the following command in \$J2EE_HOME:

```
> java -jar admin.jar ormi://<server_name>/ <admin_id>  
<admin_password> -shutdown -force
```



Note: <server_name> is the name of the server or its IP address. <admin_id> and <admin_password> are the administration username and password supplied during the OC4J install.



Example: java -jar admin.jar ormi://retekdev10/ admin admin -shutdown -force

- 3 If the precompile parameter was set to true, load the following url in a browser:

<http://<server>:<port>/<product>/precompile.jsp>

The JSP pages will now be precompiled: this avoids the first application user having to wait while each page is compiled by the JSP container. This operation should take approximately 5-10 minutes.



Example: <http://server:8388/reim/precompile.jsp>

- 4 Load the new OC4J application by entering the following URL in a browser:

<http://<server>:<port>/<product>/>

- server = name or IP address of the web server OC4J is running on
- port = port number set in default-web-site.xml above
- product = value of root in the web-app element of default-web-site.xml above



Example: <http://server:8388/reim/>

Windows NT/2000



Note: Normally OC4J is installed in an existing Oracle 9iAS (%9IAS_ORACLE_HOME%) location. However, OC4J can be installed and run outside %9IAS_ORACLE_HOME%. For this reason, %ORACLE_HOME% refers to the location where OC4J will be installed.



Note: JDK 1.3.x is a requirement for both OC4J and ReIM.

Copy and unpack install files from CDROM

Mount the CD-ROM on your Windows NT/2000 Application Server.

- 1 Change directories to \appservernt.
- 2 Double-click on reim1025apppatch.exe.
- 3 When prompted, enter a staging directory to temporarily hold the patch code. The directory structure will look like this:

```
<INSTALL_DIR>\
    reconfigure\
    reconfigure.bat
    reim.war
```

Configure OC4J and Deploy the ReIM War File into the Default OC4J Application



Note: %J2EE_HOME% refers to %ORACLE_HOME%\j2ee\home.



Note: The variable <product> refers to the name of the ReIM war file, reim.war.

- 1 Edit reconfigure.bat to suit your environment:
 - Set JAVA_HOME to the JDK 1.3.x location on your server
 - Set REIM_BASE_DIR to a temporary staging directory for the reconfigured ReIM war file
 - Set REIM_WAR_FILE to the correct war file



Example:

```
## Environment
set JAVA_HOME=c:\jdk1.3.1_07
set ANT_HOME=.\\reconfigure\ant
## ReIM specific
set PATH=%ANT_HOME%\bin;%PATH%
set REIM_WAR_FILE=reim.war
set REIM_TEMP_DIR=c:\tmp\reim
set REIM_BASE_DIR=c:\ReIMbase
%ANT_HOME%\bin\ant.bat -verbose -buildfile reconfigure/reconfigure.xml
```

- 2 Edit reconfigure\reconfigure.xml to suit your environment:



Note: Further explanation of these can be found in the operations guide.

```
<!-- change properties, these should be changed to reflect YOUR install -->
<propertyfile file="{REIM_TEMP_DIR}/WEB-INF/classes/com/rettek/reim/reim.properties">
  <entry key="url" value="jdbc:oracle:thin:@mspdev26:1522:rmsim8i" />
  <entry key="username" value="bimst90user" />
  <entry key="password" value="rettek" />
  <entry key="datasource" value="rms9"/>
  <entry key="logpath" value="{REIM_BASE_DIR}/ReIMLogs/90tst"/>
  <entry key="batcherrorlogpath" value="{REIM_BASE_DIR}/ReIMLogs/90tst"/>
  <entry key="batchlogpath" value="{REIM_BASE_DIR}/ReIMLogs/90tst"/>
  <entry key="DATA_PATH" value="{REIM_BASE_DIR}/ediDataFiles90"/>
  <entry key="schemaOwner" value="bimst90"/>
  <entry key="beanDriver" value="com.retek.reim.foundation.rms9."/>
  <entry key="authentication_source" value="DATABASE"/>
</propertyfile>
```

- 3 Run reconfigure.bat. This expands the war file in the base directory.
- 4 Back up the following files at %J2EE_HOME%\config:
 - application.xml
 - http-web-site.xml
 - global-web-application.xml
- 5 Back up the following objects currently deployed in %J2EE_HOME%\applications:
 - reim.war
 - reim\



Note: This is the directory that was created when deploying the <product>.war file just backed up

- 6 Copy the war file from %REIM_BASE_DIR% to %J2EE_HOME%\applications.
- 7 Modify application.xml by adding another web-module element for the REIM product deployment.
- 8 Modify http-web-site.xml by changing the listener port (if necessary) and by adding another web-app element for the product deployment.



Example: <web-module id="<product>" path="../applications/<product>.war" />



Example: <web-site port="8388" display-name=" Default Oracle9iAS Containers for J2EE HTTP Web Site">

<web-app application="default" name="<product>" root="<product>" />



Note: **id** in <web-module> and **name** in <web-app> must be the same value.

- 9 This step is optional. Modify global-web-application.xml to include a precompile parameter (in bold below).



Example: `<servlet>`
 `<servlet-name>jsp</servlet-name>`
 `...`
 `<init-param >`
 `<param-name>precompile_check</param-name>`
 `<param-value>true</param-value>`
 `</init-param>`
 `...`
 `</servlet>`

Start/Stop/Load the default OC4J application

- 1 To start the default OC4J container, issue the following command from an MSDOS prompt in %J2EE_HOME%:

```
> java -jar oc4j.jar &
```

“Oracle9iAS (9.0.3.0.0) Containers for J2EE initialized” (or similar) is displayed at the command line after successful startup.

- 2 To stop the default OC4J container, issue the following command from an MSDOS prompt in %J2EE_HOME%:

```
> java -jar admin.jar ormi://<server_name>/ <admin_id>  
<admin_password> -shutdown -force
```



Note: <server_name> is the name of the server or it's IP address. <admin_id> and <admin_password> are the administration username and password supplied during the OC4J install.



Example: `java -jar admin.jar ormi://retexdev9/ admin admin -shutdown -force`

- 3 If the precompile parameter was set to true, load the following url in a browser:

<http://<server>:<port>/<product>/precompile.jsp>

The JSP pages will now be precompiled; this avoids the first application user having to wait while each page is compiled by the JSP container. This operation should take approximately 5-10 minutes.



Example: <http://server:8388/reim/precompile.jsp>

- 4 Load the new OC4J application by entering the following URL in a browser

<http://<server>:<port>/<product>/>

- server = name or IP address of the web server OC4J is running on
- port = port number set in default-web-site.xml above
- product = value of root in the web-app element of default-web-site.xml above



Example: <http://server:8388/reim/>

Chapter 3 – Applying source code

If customizations have been made to Invoice Matching, the 10.2.6 source code can be compiled and applied to the application. Compile the .java source code included on this CD, then, place the generated .class files into the appropriate directory locations.

Before applying the patch source files over existing code:

- Note whether customizations have been made to the module. If so, then the customizations must be reapplied to the new version of the module (or the fix may need to be applied to the custom version of the code).

Back up the existing Invoice Matching class files before copying over the 10.2.6 class files in order to refer to them at a later date if necessary.