

Retek® Price Management 10.1.1



Installation Guide



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When contacting Customer Support, please provide:

- Product version and program/module name.
- Which Application Server and version
- Server Operating System and version
- JDK version
- Client Operating System and version (if applicable)
- Client browser and version (if applicable)
- 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.

Contents

Chapter 1 – Hardware and software requirements 1

| | |
|---|---|
| Retek Price Management system | 2 |
| Database server..... | 2 |
| Application server | 2 |
| Web browser and client requirements | 3 |

Chapter 2 – Database server installation instructions 5

| | |
|--|---|
| Getting started | 5 |
| Copy and unpack install files from CDROM | 5 |
| Create RPM database objects | 6 |
| Populate RPM data | 6 |
| Compile any invalid objects | 6 |

Chapter 3 – Application server installation instructions 7

| | |
|---|----|
| Oracle containers for J2EE – OC4J..... | 7 |
| UNIX (Sun Solaris/HPUX/AIX)..... | 7 |
| Install OC4J | 7 |
| Copy and unpack install files from CDROM | 7 |
| Configure OC4J and Deploy the RPM War File into the Default OC4J Application | 8 |
| Start/Stop/Load the default OC4J application | 9 |
| Edit the file db.properties | 9 |
| Reload the default OC4J application | 11 |
| Windows NT/2000 | 11 |
| Install OC4J | 12 |
| Copy and unpack install files from CD-ROM..... | 12 |
| Configure OC4J and deploy the RPM war file into the default OC4J application... | 13 |
| Start/Stop/Load the default OC4J application | 14 |
| Edit the file db.properties | 14 |
| Reload the default OC4J application | 16 |
| Run front-end batch | 16 |

Chapter 1 – Hardware and software requirements

Before you install any Retek Retail Solutions product, make sure that your information systems can adequately run the software that you are installing, as well as process the amount of data that you expect to manage. This section lists the suggested hardware and software requirements for the Retek Price Management system. The following are suggested hardware and software requirements:

Supported Media – Retek Price Management is available on CD-ROM only. Tape is not available.

Database Server – database software requirements.

Application Server – includes operating system software and development tools, and a list of hardware choices.

Web Browser – includes the requirements that a Web browser must meet and a list of Web browsers and versions from which you can choose. The following table lists acceptable operating system versions and Web browser versions.

| | Database Server | Application Server | Client |
|-------------------------------|--|--|-----------------------|
| Vendor | Oracle RDBMS 9I – Enterprise Edition | Oracle Container for J2EE (OC4J) 1.0.2.X | Web Browser (IE 5.0+) |
| Retek (Price Management 10.1) | DDL (Views, Triggers, Tables etc.) Data Scripts | Java War file | |

Because you need to choose hardware that has sufficient random access memory (RAM) and program and data storage capacity for the products you choose, each section lists criteria you can use to “size” your hardware selections. The totals you discover after factoring in sizing issues are approximate.

Retek Price Management system

Database server

General requirements for a database server capable of running Price Management include:

- Unix (or Unix variant) based OS certified with Oracle 9i
- Oracle RDBMS 9i Enterprise Edition
- Oracle Partitioning
- Oracle Net services

Hardware/OS options as used for development (see Oracle's Website for certified platforms):

- Sun/Solaris 2.8
- IBM/AIX 4.3.3.x
- Hewlett Packard/HP UX 11.I

Note: Oracle bug #2200335 regarding table inserts is resolved with patch #1970629, Sun Platform only.

Application server

General requirements for an application server capable of running Price Management include:

- UNIX (or UNIX variant) or Windows NT/2000 server
- Oracle Container for J2EE – OC4J

Sizing factors and other suggestions to factor into your selection of an application server include:

- CD-ROM drive
- 1 Gbit network adapter
- ~300 Mb Free disk space for RPM War file and java source code

Hardware/OS options as used for development:

- Sun/Solaris 2.6, 2.7, 2.8
- IBM/AIX 4.3.3 or AIX 5.1
- Hewlett Packard/HP UX 11.0 or 11.11

Web browser and client requirements

General requirements and suggestions for client capable of running Price Management include:

Client PCs

- Use Windows 98, 2000, XP or NT 4.0 with service pack 5 or higher
- Set the resolution to 1024x768 pixels

Sizing factors and other suggestions to factor into your selection of a PC or network configuration include:

- Bandwidth/Speed
- PC Configuration (minimum 64 MB RAM, 200MHZ processor)

Browser options to factor into your selection include:

- Internet Explorer 5.0 or higher

Chapter 2 – Database server installation instructions

Follow these steps to install the database server component of the Price Management 10.1.1 software.

Getting started

UNIX user account

The Unix user that RPM uses to install the Retek Price Management 10.1.1 Database Server and Application Server objects on UNIX systems is the same as the one used for RMS 10.1. Through this install guide we will refer to this user as retek.

Copy and unpack install files from CDROM

- 1 Log into the UNIX system that will house the database.
- 2 Create a directory for the install files. This directory will be referred to as <INSTALL_DIR> for the remainder of this document.
- 3 Copy the dbserverunix.Z file from the CDROM mount point to the <INSTALL_DIR>.
- 4 Once the copy is complete, uncompress and untar the file to create the install directory structure:

```
UNIX> mkdir <INSTALL_DIR>
UNIX> cp <CDROM>/dbserverunix.Z <INSTALL_DIR>
UNIX> cd <INSTALL_DIR>
UNIX> uncompress dbserverunix.Z
UNIX> tar xvf dbserverunix.tar
```

The directory structure will look like this:

```
<INSTALL_DIR>/
    dbcs/
    sqlplus/
    utility/
```

- 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.

Example: chmod -R 755 *

- 6 Verify that all files are owned by retek and that the retek user belongs to the dba group. Make ownership and group changes if necessary.

Create RPM database objects

- 1 Change directories to the <INSTALL_DIR>/dbcs.
- 2 Log in the RMS 10 database as rmsdev10.
- 3 Execute the following command.

```
SQLPLUS> @rpm101dbc.sql
```
- 4 View the spool file rpm101dbc.log when finished to verify that no errors were found.

Populate RPM data

- 1 Change directories to the <INSTALL_DIR>/sqlplus.
- 2 Log in the RMS 10 database as rmsdev10.
- 3 Execute the following command.

```
SQLPLUS> @rpm101.sql
```
- 4 View the spool file rpm101.log when finished to verify that no errors were found.

Compile any invalid objects

- 1 Change directories to <INSTALL_DIR>/utility.
- 2 SQLPLUS into the RMS 10 database as rmsdev10.
- 3 Run the inv_obj_comp.sql script:

```
SQL> @inv_obj_comp.sql
```

Chapter 3 – 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.

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

Install OC4J

Note: OC4J is distributed in a ZIP file format -> oc4j.zip. This zip file can be obtained from the Oracle Technology Network web site in several release versions (1.0.2.x – 9.0.2). Basic install/deployment information for version 1.0.2.x is given below. Additional information about OC4J may be obtained by consulting Oracle support.

- 1 Copy oc4j.zip to \$ORACLE_HOME.
- 2 Extract oc4j.zip.
- 3 Change directories to \$ORACLE_HOME/j2ee/home.

```
> cd $ORACLE_HOME/j2ee/home
```
- 4 Install OC4J by issuing the following command:

```
> java -jar orion.jar -install
```

Note: The OC4J installation auto-deploys a number of applications and then prompts for an administration username and password, which is used for the administration console command-line tool.

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 appserverunix.Z file from the CDROM mount point to the <INSTALL_DIR>.

- 4 Once the copy is complete, uncompress and untar the file to create the install directory structure:

```
UNIX> mkdir <INSTALL_DIR>
UNIX> cp <CDROM>/appserverunix.Z <INSTALL_DIR>
UNIX> cd <INSTALL_DIR>
UNIX> uncompress appserverunix.Z
UNIX> tar xvf appserverunix
```

The directory structure will look like this:

```
<INSTALL_DIR>/
    etc/
    doc/
    src/
    web/
    rpm.war
```

- 5 The tarfile 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.

Example: `chmod -R 755 *`

- 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 RPM 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 `rpm.war` file

- 1 Copy the `rpm.war` file from `<INSTALL_DIR>/` to `$J2EE_HOME/applications`.
- 2 Backup the following files at `$J2EE_HOME/config`:
 - `application.xml`
 - `default-web-site.xml`
- 3 Modify **application.xml** by adding another web-module element for the RPM product deployment.

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

- 4 Modify **default-web-site.xml** by changing the listener port (if necessary) and by adding another web-app element for the product deployment.

Example: `<web-site port="8388" display-name="Default Oracle9iAS Containers for J2EE 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.

Start/Stop/Load the default OC4J application

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

```
> java -jar orion.jar &
```

“Oracle9iAS (1.0.2.2.1) 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:/rettekdev10/ admin admin -shutdown -force`

Edit the file db.properties

- 1 Change directories to \$J2EE_HOME/applications/rpm/WEB-INF/classes/com/rettek/rpm/util/conf.
- 2 Edit db.properties; the values to be changed are:

`rms.url=jdbc:oracle:thin:@<database server>:<port>:<database sid>`

`rms.user=<rms schema owner>`

`rms.password=<rms schema password>`

`rpm.url=jdbc:oracle:thin:@<database server>:<port>:<database sid>`

`rpm.user=<rms schema owner>`

`rpm.password=<rms schema password>`

Where:

- Database server = machine name of server where the database resides
- port = Oracle database port
- database sid = Oracle database sid name
- rms schema owner = name of the RMS 10.1.1 database schema
- rms schema password = RMS 10.1.1 database schema password

Example: rms.url=jdbc:oracle:thin:@retekdev10:1521:rms109i

rms.user=rms10

rms.password=retex

rmsmaxconn=15

rms.driver=oracle.jdbc.driver.OracleDriver

rpm.url= jdbc:oracle:thin:@retekdev10:1521:rms109i

rpm.user=rms10

rpm.password=retex

rpm.maxconn=15

rpm.driver=oracle.jdbc.driver.OracleDriver

Set to disable rfx in the batch. Will use SQL instead

disablerfx=true

Set to the rfx executable

rfxpath=C:\\dev\\rpm\\rfxFake.bat

#DEVELOPMENT TOOL--remove for GA--adds host to table name to allow sharing of an rms

hostifyTableNames=false

Note: disablerfx, rfxpath and hostifyTableNames in the db.properties file should not be changed.

Reload the default OC4J application

Note: OC4J must be reloaded in order for the changes made to db.properties to take effect.

- 1 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 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:/retekdev10/ admin admin -shutdown -force

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

```
java -jar $J2EE_HOME/orion.jar &
```

“Oracle9iAS (1.0.2.2.1) Containers for J2EE initialized” (or similar) is displayed at the command line after successful startup.

- 3 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/rpm>

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 RPM

Install OC4J

Note: OC4J is distributed in a ZIP file format -> oc4j.zip. This zip file can be obtained from the Oracle Technology Network web site in several release versions (1.0.2.x – 9.0.2x). Basic install/deployment information for version 1.0.2.x is given below. Additional information about OC4J may be obtained by consulting Oracle support.

- 1 Copy oc4j.zip to %ORACLE_HOME%.
- 2 Extract oc4j.zip.
- 3 From an MSDOS command line, change directories to %ORACLE_HOME%\j2ee\home.

```
> cd $ORACLE_HOME%\j2ee\home
```
- 4 Install OC4J by issuing the following command:

```
> java -jar orion.jar -install
```

Note: The OC4J installation auto-deploys a number of applications and then prompts for an administration username and password, which is used for the administration console command-line tool.

Copy and unpack install files from CD-ROM

- 1 Create a directory for the install files on the Windows server that will house the application server. This directory will be referred to as %INSTALL_DIR% for the remainder of the Windows Application Server section.
- 2 Copy the rpm101java.exe self-extracting zip file from the CD-ROM to %INSTALL_DIR%.
- 3 In Windows Explorer, change directories to the RPM staging directory and double-click the rpm101java.exe file to extract the RPM 10.1.1 application.
- 4 Verify the following directory structure exists after the extraction of rpm101java.exe:

```
%INSTALL_DIR%\
    \etc
    \javadoc
    \src
    \web
    \rpm.war
```

Configure OC4J and deploy the RPM 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 rpm.war file

- 1 Copy the rpm.war file from the RPM staging area to %J2EE_HOME%\applications.
- 2 Backup the following files at %J2EE_HOME%\config:
 - application.xml
 - default-web-site.xml
- 3 Modify **application.xml** by adding another web-module element for the RPM product deployment.

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

- 4 Modify **default-web-site.xml** by changing the listener port (if necessary) and by adding another web-app element for the product deployment.

Example: <web-site port="8388" display-name="Default Oracle9iAS Containers for J2EE 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.

Start/Stop/Load the default OC4J application

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

```
> java -jar orion.jar &
```

“Oracle9iAS (1.0.2.2.1) 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 at an MSDOS command line 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:/retekdev10/ admin admin -shutdown -force

Edit the file db.properties

- 1 db.properties is located at %J2EE_HOME%\applications\rpm\WEB-INF\classes\com\retек\rpm\util\conf.
- 2 Edit db.properties; the values to be changed are:

```
rms.url=jdbc:oracle:thin:@<database server>:<port>:<database sid>  
rms.user=<rms schema owner>  
rms.password=<rms schema password>  
rpm.url=jdbc:oracle:thin:@<database server>:<port>:<database sid>  
rpm.user=<rms schema owner>  
rpm.password=<rms schema password>
```

Where:

- Database server = machine name of server where the database resides
- port = Oracle database port
- database sid = Oracle database sid name
- rms schema owner = name of the RMS 10.1.1 database schema
- rms schema password = RMS 10.1.1 database schema password

Example: rms.url=jdbc:oracle:thin:@retekdev10:1521:rms109i

rms.user=rms10

rms.password=rettek

rmsmaxconn=15

rms.driver=oracle.jdbc.driver.OracleDriver

rpm.url= jdbc:oracle:thin:@retekdev10:1521:rms109i

rpm.user=rms10

rpm.password=rettek

rpm.maxconn=15

rpm.driver=oracle.jdbc.driver.OracleDriver

Set to disable rfx in the batch. Will use SQL instead
disablerfx=true

Set to the rfx executable
rfxpath=C:\\dev\\rpm\\rfxFake.bat

#DEVELOPMENT TOOL--remove for GA--adds host to table name to allow
sharing of an rms

hostifyTableNames=false

Note: disablerfx, rfxpath and hostifyTableNames in the db.properties file should not
be changed.

Reload the default OC4J application

Note: OC4J must be reloaded in order for the changes made to db.properties to take effect.

- 1 To stop the default OC4J container, issue the following command at an MSDOS command line 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:/retекdev10/ admin admin -shutdown -force

- 2 To start the default OC4J container, issue the following command at an MSDOS command line in %J2EE_HOME%:

```
java -jar orion.jar &
```

“Oracle9iAS (1.0.2.2.1) Containers for J2EE initialized” (or similar) is displayed at the command line after successful startup.

- 3 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/rpm>

Run front-end batch

RPM's front-end batch (FrontEnd.class) needs to run in two situations:

- After completion of the RPM installation in order to populate two RPM tables
- During RPM's scheduled snapshot to populate the pricing worksheet

Set up the classpath

In order for the system to find RPM's class libraries, you need to know the classpath and set it up. The classpath is an environmental variable that tells the Java virtual machine and RPM where to find the class libraries, including user-defined class libraries, like FrontEnd.class.

There are two options for setting classpath:

- 2 Set the path as an environment variable, as in the following example. This option is the most desirable.

```
/files1/webadmin/oc4j_rpm101int/j2ee/home/rpm10int-
application/rpm/WEB-
INF/classes:/files1/webadmin/oc4j_rpm101int/j2ee/home/rpm10int-
application/rpm/WEB-INF/lib/jdbc2_0-
stdext.jar:/files1/webadmin/oc4j_rpm101int/j2ee/home/rpm10int-
application/rpm/WEB-
INF/lib/classes12.jar:/files1/webadmin/oc4j_rpm101int/j2ee/hom
e/rpm10int-application/rpm/WEB-
INF/lib/log4j.jar:/files1/webadmin/oc4j_rpm101int/j2ee/home/rp
m10int-application/rpm/WEB-INF/lib/struts.jar
```
- 3 Run the classpath from the command line along with the front-end batch statement. This option would involve entering the classpath (as in the first option in the previous section) and appending the command line information for front-end batch in the next section, "Run front-end batch after installation."

Run front-end batch after installation

Before you start RPM, run the FrontEnd command with the 'pop' option. This ensures that RPM tables RPM_DEPS and RPM_SYS_OPT are populated with data. From the command line, enter the following:

```
java com.retek.rpm.batch.FrontEnd pop
```

Note: The Operations Guide lists the RMS tables from which RPM extracts data, the RPM classes and methods that contain the SQL statements used in the extraction, and the RPM tables that are populated with the data.