

Oracle® Retail Warehouse Management System
Installation Guide
Release 13.1.3

August 2010

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Oracle Retail Warehouse Management System, Installation Guide, Release 13.1.3

Oracle welcomes customers' comments and suggestions on the quality and usefulness of this document.

Your feedback is important, and helps us to best meet your needs as a user of our products. For example:

- Are the implementation steps correct and complete?
- Did you understand the context of the procedures?
- Did you find any errors in the information?
- Does the structure of the information help you with your tasks?
- Do you need different information or graphics? If so, where, and in what format?
- Are the examples correct? Do you need more examples?

If you find any errors or have any other suggestions for improvement, then please tell us your name, the name of the company who has licensed our products, the title and part number of the documentation and the chapter, section, and page number (if available).

Note: Before sending us your comments, you might like to check that you have the latest version of the document and if any concerns are already addressed. To do this, access the new Applications Release Online Documentation CD available on My Oracle Support and www.oracle.com. It contains the most current Documentation Library plus all documents revised or released recently.

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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 Warehouse Management System Release 13.1.3 documentation set:

- *Oracle Retail Warehouse Management System Release Notes*
- *Oracle Retail Warehouse Management System Defect Docs*

Customer Support

To contact Oracle Customer Support, access My Oracle Support at the following URL:

<https://support.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

When you install the application for the first time, you install either a base release (for example, 13.1) or a later patch release (for example, 13.1.2). If you are installing the base release and additional patch and bundled hot fix releases, read the documentation for all releases that have occurred since the base release before you begin installation. Documentation for patch and bundled hot fix releases can contain critical information related to the base release, as well as information about code changes since the base release.

Oracle Retail Documentation on the Oracle Technology Network

Documentation is packaged with each Oracle Retail product release. Oracle Retail product documentation is also available on the following Web site:

http://www.oracle.com/technology/documentation/oracle_retail.html

(Data Model documents are not available through Oracle Technology Network. These documents are packaged with released code, or you can obtain them through My Oracle Support.)

Documentation should be available on this Web site within a month after a product release.

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.”

This is a code sample

It is used to display examples of code

Preinstallation Tasks

Check Database Server Requirements

General Requirements for a database server running RWMS include:

Supported on:	Versions Supported:
Database Server OS	<p>OS certified with Oracle Database 11gR1 and 11gR2 Enterprise Edition. Options are:</p> <ul style="list-style-type: none"> ▪ Oracle Enterprise Linux 5 Update 2 (OEL 5.2) for x86-64 ▪ Oracle Enterprise Linux 5 Update 3 (OEL5.3) for x86-64 ▪ Red Hat Enterprise Linux 5 Update 2 (RHEL 5.2) for x86-64 ▪ Red Hat Enterprise Linux 5 Update 3 (RHEL 5.3) for x86-64 ▪ AIX 6.1, minimum TL1 ▪ Solaris 10 Sparc (Actual hardware or Logical Domains) ▪ HP-UX 11.31 Integrity (Actual hardware or HPVM)
Database Server 11gR1	<p>Oracle Database Enterprise Edition 11gR1 (minimum patchset 11.1.0.7) with the following additional oneff patches:</p> <ul style="list-style-type: none"> ▪ 7036284 (LOADJAVA RUN IN A DV ENVIRONMENT CANNOT LOAD CLASSES WITH A NAME LONGER THAN 128) ▪ 7378322 (ORA-00600: internal error code, arguments: [6704], [1], [532241], [532237]) ▪ 6800649 – (AIX only) when non-oracle user uses client utilities sqlldr/sqlplus/impdp/expdp, core dump is generated. Need to “relink all” after applying the patch ▪ 7697360 (RAC only) ORA-00600: internal error code, arguments: [k2vcbk_6], Database crashed during transaction recovery. ▪ 9582272 - ORA-600 [KKDLREADONDISKDEFVAL: ERROR] OCCURS WHEN ALTER TRIGGER IS EXECUTED. <p>Components:</p> <ul style="list-style-type: none"> ▪ Oracle Database 11g ▪ Oracle Partitioning ▪ Oracle Net Services ▪ Oracle Call Interface (OCI) ▪ Oracle Programmer ▪ Oracle XML Development Kit ▪ Examples CD (Formerly the companion CD) <p>Other components:</p> <ul style="list-style-type: none"> ▪ Perl compiler 5.0 or later ▪ X-Windows interface

Supported on:	Versions Supported:
Database Server 11gR2	<p>Oracle Database 11g Release 2 (11.2.0.1) Enterprise Edition with the following components:</p> <ul style="list-style-type: none">▪ Oracle Partitioning▪ Example CD <p>Patches:</p> <ul style="list-style-type: none">▪ 9582272 - ORA-600 [KKDLREADONDISKDEFVAL: ERROR] OCCURS WHEN ALTER TRIGGER IS EXECUTED. <p>The following two patches need to be applied together in order to correct the JDBC bug:</p> <ul style="list-style-type: none">▪ 9367425 -- PROCESS CRASHED WHEN USING 11GR2 JDBC/OCI▪ 9495959 -- HANG WHEN TWO THREADS TRY TO CREATE THE ENV HANDLE AT THE SAME <p>Other components:</p> <ul style="list-style-type: none">▪ Perl compiler 5.0 or later▪ X-Windows interface

Verify Single Sign-On

If a Single Sign-On is to be used, verify the Oracle Infrastructure Server 10g server has been installed. Verify that the mid-tier server hosting Oracle Forms is registered with the Infrastructure Oracle Internet Directory.

Check Application Server Requirements

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

Supported on:	Versions Supported:
Application Server OS	OS certified with Oracle Application Server 10g version 10.1.2.3. Options are: <ul style="list-style-type: none"> ▪ Oracle Enterprise Linux 5 Update 2 (OEL 5.2) for x86-64 ▪ Oracle Enterprise Linux 5 Update 3 (OEL5.3) for x86-64 ▪ Red Hat Enterprise Linux 5 Update 2 (RHEL 5.2) for x86-64 ▪ Red Hat Enterprise Linux 5 Update 3 (RHEL 5.3) for x86-64 ▪ AIX 6.1, minimum TL1 ▪ Solaris 10 Sparc (Actual hardware or Logical Domains) ▪ HP-UX 11.31 Integrity (Actual hardware or HPVM)
Application Server	Oracle Application Server Forms and Reports 10g version 10.1.2.3 Patches: <ul style="list-style-type: none"> ▪ 7379122 MLR ON TOP OF 10.1.2.3 FOR CPUOCT2008

Note: If installing on HP please refer to My Oracle Support, Doc ID 367577.1.

Check Web Browser and Client Requirements

General requirements for client running RWMS include:

Requirement	Version
Operating system	Windows 2000 or XP
Display resolution	1024x768
Processor	Pentium processor (minimum 450 MHz)
Memory	minimum of 256 MB RAM
Sun JRE Plug-in	1.4.1+
Browser	Microsoft Internet Explorer version 6.x or 7.x

Handheld Requirements

Windows CE 5.0 handhelds with the following screen sizes

- Hand held: 240 x 320
- Wrist mount: 320 x 240
- Truck mount – full screen: 800 x 600
- Truck mount – half screen: 800 x 320

Software Required on Handhelds

- Remote Desktop Client (aka Microsoft Terminal Services Client)
- DataWedge (software provided by and maintained by Motorola for use with the barcode scanners)

Supported Oracle Retail Products

Requirement	Version
Oracle Retail Merchandising System (RMS)	13.1.3
SIM	13.1.3

Database Upgrade Instructions

This chapter describes how you can upgrade the RWMS database with this patch release.

Before You Begin

Before you apply the RWMS 13.1.3 patch:

- Make a backup of all your objects and database schema.
- Check that RWMS 13.1.2 is installed.
- Review the enclosed RWMS 13.1.3 Release Notes (rwms-1313-rn.pdf).

Before copying over any files:

- Note whether customizations have been made to the module. If so, then the customizations must be reapplied over the new version of the module (or the fix may need to be applied to the custom version of the code).
- Copy the original files to a different directory before copying over them in case they need to be referred to at a later date.

Note: These instructions refer to RWMS13DEV as the Oracle owning schema.

Copy from CD Directory

1. Copy the rwms1313dbpatch.zip file from the CD/dbserverunix directory to a newly created staging directory on your UNIX server.
2. Unzip the file using the following command:

```
unzip rwms1313dbpatch.zip
```

Update RIB Database Objects

1. Change directories to the <staging area>/rib_objects.
2. Log on to SQL* Plus as RWMS13DEV, and run the following command:

```
SQL> @InstallAndCompileAllRibOracleObjects.sql
```
3. Please follow the instructions given by the script.

Update RWMS DDL

1. Change directories to the <staging area>/dbcs.
2. Log on to SQL* Plus as RWMS13DEV, and run the following command:

```
SQL> @patch1313dbcs.sql
```
3. Check the log file patch1313dbcs.log for any errors.

Update RWMS Database Objects

1. Change directories to the <staging area>/db_objects.
2. Log on to SQL*Plus as RWMS13DEV, and run the following command:
SQL> @patch1313rwms.sql
3. Check the log file patch1313rwms.log for any errors.

Validate all Invalid Objects

Note: Deadlocked objects may appear when running this script. Run the script until no more invalid objects remain.

1. Change directories to <INSTALL_DIR>/utility.
2. Log on to SQL*Plus as RWMS13DEV, and run the following command:
SQL> @inv_obj_comp.sql
3. You may need to run this script more than once.

Update Data for RWMS

Note: Ensure that your NLS_LANG has been set to a valid UTF8.

1. Change directories to the <staging area>/data.
2. Log on to SQL*Plus as RWMS13DEV, and run the following command:
SQL> @patch1313data.sql
3. Check the log file patch1313data.log for any errors.

Application Server Installation Tasks

Note: STAGING_DIR is the directory where the RWMS files are extracted from its zip file. INSTALL_DIR is where the application will be run from.

It is assumed that Oracle Application Server 10g version 10.1.2.3 (OAS) has already been installed. If not, refer to “*Check Application Server Requirements*” in Chapter 1, Preinstallation Tasks before proceeding.

Compile RWMS Oracle Forms and Reports

Environment Variables

Note: ORACLE_HOME is the location where Oracle Application Server 10g (10.1.2.3) has been installed.

1. The T2kMotif.rgb file that is sent out with Oracle Application Server 10g (10.1.2.3) must be modified. It is located at the following location:
`$ORACLE_HOME/guicommon/tk/admin`
 - a. Make a copy of the file `ORACLE_HOME/guicommon/tk/admin/Tk2Motif.rgb`, and name it `Tk2Motif.rgb_ORIG` (for example).
 - b. Modify the file `Tk2Motif.rgb` file so that it contains the following line:
`Tk2Motif*fontMapCs: iso8859-2=UTF8`
2. Logon to the application server as the oretail user,
3. Set the DISPLAY variable to the IP address plus “:0.0” (ie: 10.1.1.1:0.0) of the application server.
4. Set the following variables:
 - All OS Platforms
 - `PATH=$ORACLE_HOME/bin:$ORACLE_HOME/opmn/bin:$ORACLE_HOME/dcm/bin:INSTALL_DIR/forms_scripts:$PATH`
 - `CLASSPATH=$ORACLE_HOME/jlib/importer:$ORACLE_HOME/jlib/debugger.jar:$ORACLE_HOME/jlib/utj.jar:$ORACLE_HOME/jlib/ewt3.jar:$ORACLE_HOME/jlib/share.jar:$ORACLE_HOME/jlib/dfc.jar:$ORACLE_HOME/jlib/help4.jar:$ORACLE_HOME/jlib/oracle_ice.jar:$ORACLE_HOME/jlib/jewt4.jar`
 - `FORMS_BUILDER_CLASSPATH=$CLASSPATH`
 - `FORMS_PATH=INSTALL_DIR/rwms/forms/bin:$ORACLE_HOME/forms`
 - `REPORTS_PATH=INSTALL_DIR/rwms/reports/bin:$ORACLE_HOME/forms`
 - `TK_UNKNOWN=$ORACLE_HOME/guicommon/tk/admin`
 - `UP=<RWMS schema owner>/<RWMS schema password>@<RWMS database>`

RWMS Forms Installation

1. Copy all forms (*.fmb files) from the STAGING_DIR/rwms/forms/src directory to the INSTALL_DIR/rwms/forms/bin directory.
2. Run forms.fmb.sh to generate RWMS runtime forms – .fmx's.
3. Check to make sure that each form .fmb file has a corresponding .fmx file.
4. Copy all files in the STAGING_DIR/rwms/forms/bin directory to the INSTALL_DIR/rwms/forms/bin directory.

Appendix: Installation Order

This section provides a guideline as to the order in which the Oracle Retail applications should be installed. If a retailer has chosen to use some, but not all, of the applications the order is still valid less the applications not being installed.

Note: The installation order is not meant to imply integration between products.

Enterprise Installation Order

1. Oracle Retail Merchandising System (RMS), Oracle Retail Trade Management (RTM), Oracle Retail Sales Audit (ReSA)
2. Oracle Retail Service Layer (RSL)
3. Oracle Retail Extract, Transform, Load (RETL)
4. Oracle Retail Active Retail Intelligence (ARI)
5. Oracle Retail Warehouse Management System (RWMS)
6. Oracle Retail Allocation
7. Oracle Retail Invoice Matching (ReIM)
8. Oracle Retail Price Management (RPM)

Note: During installation of RPM, you are asked for the RIBforRPM provider URL. Since RIB is installed after RPM, make a note of the URL you enter. If you need to change the RIBforRPM provider URL after you install RIB, you can do so by editing the `jndi_provider.xml` file.

9. Oracle Retail Central Office (ORCO)
10. Oracle Retail Returns Management (ORRM)
11. Oracle Retail Back Office (ORBO) or Back Office with Labels and Tags (ORLAT)
12. Oracle Retail Store Inventory Management (SIM)

Note: During installation of SIM, you are asked for the RIB provider URL. Since RIB is installed after SIM, make a note of the URL you enter. If you need to change the RIB provider URL after you install RIB, you can do so by editing the `jndi_providers_ribclient.xml` file.

13. Oracle Retail Predictive Application Server (RPAS)
14. Oracle Retail Demand Forecasting (RDF)
15. Oracle Retail Category Management (CM)
16. Oracle Retail Replenishment Optimization (RO)
17. Oracle Retail Analytic Parameter Calculator Replenishment Optimization (APC RO)
18. Oracle Retail Regular Price Optimization (RPO)
19. Oracle Retail Merchandise Financial Planning (MFP)
20. Oracle Retail Size Profile Optimization (SPO)

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21. Oracle Retail Assortment Planning (AP)
 22. Oracle Retail Item Planning (IP)
 23. Oracle Retail Item Planning configured for COE (IPCOE)
 24. Oracle Retail Advanced Inventory Planning (AIP)
 25. Oracle Retail Integration Bus (RIB)
 26. Oracle Retail Point-of-Service (ORPOS)
 27. Oracle Retail Analytics Applications
 28. Oracle Retail Data Warehouse (RDW)
 29. Oracle Retail Workspace (ORW)