

Oracle® Retail Merchandising System
Installation Guide
Release 12.0.10IN

July 2009

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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 Merchandising System Release 12.0.10 India Localized documentation set:

- *Oracle Retail Merchandising System Release Notes*
- *Oracle Retail Merchandising System Online Help*
- *Oracle Retail Merchandising System User Guide Addendum*
- *Oracle Retail Merchandising System Operations Guide*

Customer Support

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

If you are installing the application for the first time, you install either a base release (for example, 13.0) or a later patch release (for example, 13.0.2). If you are installing a software version other than the base release, be sure to read the documentation for each patch release (since the base release) before you begin installation. Patch documentation can contain critical information related to the base release 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 (with the exception of the Data Model which is only available with the release packaged code):

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.

Preinstallation Tasks

Check Database Server Requirements

General Requirements for a database server running RMS include:

Supported on 10gR2	Versions Supported:
Database Server OS	<p>OS certified with Oracle Database 10gR2 Enterprise Edition. Options are:</p> <ul style="list-style-type: none"> ▪ Sun Sparc 5.9 and 5.10 ▪ AIX 5.2 and 5.3 ▪ HP-UX 11.23 (PARISC) ▪ OEL 4 Update 4 (OEL 4.4) for x86-64
Database Server	<p>Oracle Database 10g Release 2 Enterprise Edition (10.2.0.4 patchset required) with the following components:</p> <ul style="list-style-type: none"> ▪ Oracle Database 10g ▪ Oracle Partitioning ▪ Oracle Net Services ▪ Oracle Call Interface (OCI) ▪ Oracle Programmer ▪ Oracle XML Development Kit ▪ Companion CD ▪ ANSI compliant C compiler (certified with OS and database version) <p>Patches:</p> <ul style="list-style-type: none"> ▪ 10.2.0.4 patchset: 6810189 <p>Others components:</p> <ul style="list-style-type: none"> ▪ Perl compiler 5.0 or later ▪ x-Windows interface

Check Application Server Requirements

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

Supported on:	Versions Supported:
Application Server OS	OS certified with Oracle Application Server 10g 10.1.3.4. <ul style="list-style-type: none"> ▪ Sun Sparc 5.9 and 5.10 ▪ AIX 5.2 and 5.3 ▪ HP-UX 11.23 (PARISC) ▪ OEL 4 Update 4 (OEL 4.4) for x86-64
Application Server	Oracle Application Server 10g 10.1.3.4 with the following patches: <ul style="list-style-type: none"> ▪ 5632264 (NEED UPDATED TIMEZONE FILES (VERSION 4) FOR MORE DST RULE CHANGES)

Check Web Browser and Client Requirements

Product	Version
JRE Plug-in	Sun JRE Plug-in 1.4.1+
Operating System	Windows 2000 or XP
Processor	Pentium processor
Display resolution	1024x768 resolution
PC Configuration	minimum 256 MB RAM, 450 MHz
Internet Explorer	5.5, 6.0 and higher

Supported Oracle Retail Products

Product	Version
Oracle Retail Price Management (RPM)	12.0.10 India Localized
Oracle Retail Invoice Matching (ReIM)	12.0.8.4 India Localized
Oracle Retail Store Inventory Management (SIM)	12.0.10 India Localized

RAC and Clustering

Real Application Cluster RDBMS & Oracle Application Server Clustering for Oracle Retail Merchandising System 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 you apply the RMS 12.0.10 India Localized patch:

- Make a backup of all your objects and database schema.
- Check that RMS 12.0.5 India Localized is installed.
- Review the enclosed RMS 12.0.10 India Localized Patch Release Notes.

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 RMS12DEV as the Oracle owning schema.

Copy from the CD Directory

1. Copy the rms12010dbpatch.zip file from the CD /dbserverunix directory to a newly created staging directory on your UNIX server.
2. Unzip the file by entering:
`unzip rms12010dbpatch.zip`

Alter RIB Objects

Alter RIB Database Objects

1. Change directories to STAGING_AREA/rib_objects.
2. Log into sqlplus as RMS12DEV and run the following command:
`SQL> @patch12010rib.sql`
3. Check the log file patch12010rib.log for any errors.

Validate all Invalid Objects

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

1. Change directories to STAGING_AREA/utility.
2. Log into sqlplus as RMS12DEV and run the following command:
`SQL> @inv_obj_comp.sql`
3. This script may need to be run more than once.

Alter Pricing Objects

Alter Pricing Types

1. Change directories to STAGING_AREA/pricing/types.
2. Log into sqlplus as RMS12DEV and run the following command:
SQL> @pricing12010types.sql
3. Check the log file pricing12010types.log for any errors noting that ORA-04043 errors and warnings are to be ignored.

Alter Pricing DDL

1. Change directories to STAGING_AREA/pricing/dbcs.
2. Log into sqlplus as RMS12DEV and run the following command:
SQL> @pricing12010dbcs.sql
3. Check the log file pricing12010dbcs.log for any errors.

Alter Pricing Objects

1. Change directories to STAGING_AREA/pricing/db_objects.
2. Log into sqlplus as RMS12DEV and run the following command:
SQL> @pricing12010rms.sql
3. Check the log file pricing12010rms.log for any errors. Validation of invalid objects will be done in a later step.

Alter Pricing data

1. Change directories to STAGING_AREA/pricing/data.
2. Log into sqlplus as RMS12DEV and run the following command:
SQL> @pricing12010ctl.sql
3. Check the log file pricing12010ctl.log for any errors noting that ORA-04043 errors are to be ignored

Alter RSM data

1. Change directories to STAGING_AREA/pricing/rsm.
2. Log into sqlplus as **RSM**12DEV and run the following command:
SQL> @rsm12010ctl.sql
3. Check the log file rsm12010ctl.log for any errors noting that ORA-04043 errors are to be ignored

Alter RMS Objects

Alter RMS Tables

1. Change directories to STAGING_AREA/dbcs.
2. Log into sqlplus as RMS12DEV and run the following command:
SQL> @patch12010dbcs.sql
3. Check the log file patch12010dbcs.log for any errors.

Alter RMS Types

1. Change directories to STAGING_AREA/types.
2. Log into sqlplus as RMS12DEV and run the following command:
SQL> @patch12010types.sql
3. Check the log file patch12010types.log for any errors. ORA-04043 errors are to be ignored

Alter RMS Triggers

1. Change directories to STAGING_AREA/triggers.
2. Log into sqlplus as RMS12DEV and run the following command:
SQL> @patch12010trg.sql
3. Check the log file patch12010trg.log for any errors.

Alter RMS Database Objects

1. Change directories to STAGING_AREA/db_objects.
2. Log into sqlplus as RMS12DEV and run the following command:
SQL> @patch12010rms.sql
3. Check the log file patch12010rms.log for any errors.

Validate all Invalid Objects

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

1. Change directories to STAGING_AREA/utility.
2. Log into sqlplus as RMS12DEV and run the following command:
SQL> @inv_obj_comp.sql
3. This script may need to be run more than once.

Update Data for RMS

Note: Please ensure that you have your NLS_LANG set to UTF-8. For example AMERICAN_AMERICA.UTF8

1. Change directories to STAGING_AREA/data.
2. Log into sqlplus as RMS12DEV and run the following command:
SQL> @patch12010INctl.sql
3. Check the log file patch12010INctl.log for any errors.
4. Change directories to STAGING_AREA/data/form_menu_elements
5. Log into sqlplus as RMS12DEV and run the following command:
SQL> @form_elements.sql
6. Check the log file form_elements.log for any errors

Update RETL for RDW

Note: These steps only need to be done if you are using RDW.

1. Change directories to STAGING_AREA/repl/rfx/etc.
2. Copy all the files from this directory to INSTALL_DIR/repl/rfx/etc.
`cp -R * INSTALL_DIR/repl/rfx/etc`
3. Change directories to STAGING_AREA/repl/rfx/lib.
4. Copy all the files from this directory to INSTALL_DIR/repl/rfx/lib.
`cp -R * INSTALL_DIR/repl/rfx/lib`
5. Change directories to STAGING_AREA/repl/rfx/schema.
6. Copy all the files from this directory to INSTALL_DIR/repl/rfx/schema.
`cp -R * INSTALL_DIR/repl/rfx/schema`
7. Change directories to STAGING_AREA/repl/rfx/src.
8. Copy all the files from this directory to INSTALL_DIR/repl/rfx/src.
`cp -R * INSTALL_DIR/repl/rfx/src`

Compile RMS Batch Libraries and Programs

Note: Warning messages may appear during the compilation of the batch. These warnings can be ignored if the batch executables are successfully generated.

Set Environment Variables

1. Make sure the following variables are set:

Note: INSTALL_DIR is the location where RMS 12 was installed.

Make sure the path for make, makedepend, and the compiler are in \$PATH environment variable.

- MMHOME=INSTALL_DIR/rms
- MMUSER=RMS Schema Owner
- PASSWORD=RMS Schema Owner Password
- ORACLE_HOME=Location of Oracle install
- ORACLE_SID=The Oracle Sid for the RMS database

AIX:

- LIBPATH=\$ORACLE_HOME/lib:\$MMHOME/oracle/lib/bin:\$LDPATH
- OBJECT_MODE=64
- LINK_CNTRL=L_PTHREADS_D7

HP:

- SHLIB_PATH=\$ORACLE_HOME/lib:\$MMHOME/oracle/lib/bin:
- \$SH_LIBPATH

Solaris:

- LD_LIBRARY_PATH=\$ORACLE_HOME/lib:
\$MMHOME/oracle/lib/bin:\$LD_LIBRARY_PATH

Oracle Enterprise Linux:

- LD_LIBRARY_PATH=\$ORACLE_HOME/lib:
\$MMHOME/oracle/lib/bin:\$LD_LIBRARY_PATH

Compile Batch Libraries

1. Copy the files from STAGING_AREA/batch/lib/src to INSTALL_DIR/rms/oracle/lib/src.
2. Change directories to INSTALL_DIR/rms/oracle/lib/src.
3. Create library dependencies.
 - a. For UNIX, run the following command:
`make -f retek.mk depend 2>&1 | tee libdpnd.log`
 - b. For Oracle Enterprise Linux run the following command:
`make -f retek.mk -r depend 2>&1 | tee libdpnd.log`
 - c. Check the libdpnd.log file for errors.
4. Create the batch libraries.
 - a. For UNIX, run the following command:
`make -f retek.mk retek rms resa 2>&1 | tee libretek.log`
 - b. For Oracle Enterprise Linux run the following command:
`make -f retek.mk -r retek rms resa 2>&1 | tee libretek.log`
 - c. Check the libretek.log file for errors.
5. Install the batch libraries.
`make -f retek.mk install`
The batch libraries should now be in INSTALL_DIR/rms/oracle/lib/bin.

Compile Batch Source Code

1. Copy the files from STAGING_AREA/batch/proc/src to INSTALL_DIR/rms/oracle/proc/src.
2. Copy the files from STAGING_AREA/batch/proc/bin to INSTALL_DIR/rms/oracle/proc/bin.
3. Change directories to INSTALL_DIR/rms/oracle/proc/src.
4. Create dependencies.
 - a. For UNIX, run the following command:
`make -f mts.mk rms-depend recs-depend rtm-depend resa-depend 2>&1 | tee srcdpnd.log`
 - b. For Oracle Enterprise Linux run the following command:
`make -f mts.mk -r rms-depend recs-depend rtm-depend resa-depend 2>&1 | tee srcdpnd.log`
 - c. Check the srcdpnd.log file for errors.
5. Create batch programs.
 - a. For UNIX, run the following commands in the order stated.
`make -f rms.mk PRODUCT_PROCFLAGS=dynamic=ansi ditinsrt`
`make -f mts.mk rms-ALL recs-ALL resa-ALL rtm-ALL 2>&1 | tee srcall.log`

- b.** For Oracle Enterprise Linux run the following commands:

```
make -f rms.mk -r PRODUCT_PROCFLAGS=dynamic=ansi ditinsrt  
make -f mts.mk -r rms-ALL recs-ALL resa-ALL rtm-ALL 2>&1 | tee srcall.log
```

- c.** Check the srcall.log file for errors.

- 6.** Install the batch programs.

```
make -f mts.mk rms-install recs-install resa-install rtm-install
```

The batch programs should now be in `INSTALL_DIR/rms/oracle/proc/bin`.

Application Server Installation Tasks

Copy from the CD Directory

1. Copy the rms12010apppatch.zip file from the CD /appserverunix directory to a newly created staging directory on your UNIX server.
2. Unzip the file by entering:

```
unzip rms12010apppatch.zip
```

Set Environment Variables

Note: ORACLE_HOME is the location where Oracle Application Server 10g (10.1.2.0.2) has been installed

1. Set the DISPLAY variable to the IP address plus ":0.0" (ie: 10.1.1.1:0.0) of the application server.
2. Set the following variables:

Note: ORACLE_HOME is the location where Oracle Application Server 10g (10.1.2.0.2) has been installed

- All OS Platforms
- PATH=\$ORACLE_HOME/bin:\$ORACLE_HOME/opmn/bin:\$ORACLE_HOME/dcm/bin:INSTALL_DIR/forms10gr2_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/toolset/bin:INSTALL_DIR/rms/forms/bin:\$ORACLE_HOME/forms
- REPORTS_PATH=INSTALL_DIR/rms/reports/bin:\$ORACLE_HOME/forms
- TK_UNKNOWN==\$ORACLE_HOME/guicommon/tk/admin
- UP=<RMS schema owner>/<RMS schema password>@<RMS database>

Note: Verify that TNS is set up correctly by using the UP variable to successfully log into the RMS 12 schema.

Example: /u00/oracle> sqlplus \$UP

Solaris

- LD_LIBRARY_PATH=\$ORACLE_HOME/lib:\$ORACLE_HOME/jdk/jre/lib/sparc:\$ORACLE_HOME/jdk/jre/lib/sparc/native_threads

HP-UX

- SHLIB_PATH=\$ORACLE_HOME/lib32:\$ORACLE_HOME/lib:\$ORACLE_HOME/jdk/jre/lib/PA_RISC:\$ORACLE_HOME/jdk/jre/lib/PA_RISC/server

AIX

- LD_LIBRARY_PATH=\$ORACLE_HOME/lib:\$ORACLE_HOME/lib32:\$ORACLE_HOME/jdk/jre/lib
- LIBPATH=\$LD_LIBRARY_PATH

Oracle Enterprise Linux

- LD_LIBRARY_PATH=\$ORACLE_HOME/lib:\$ORACLE_HOME/lib32:\$ORACLE_HOME/jdk/jre/lib

RMS Toolset Installation

1. Copy all libraries (.pll files) in the INSTALL_DIR/toolset/src directory to the INSTALL_DIR/toolset/bin directory.
2. Change directories to INSTALL_DIR/toolset/bin.
3. Run pll2plx10gr2_toolset to compile all Toolset .pll's.

If the pll2plx10gr2_toolset script is not used and the libraries are compiled individually, then they must be compiled in the following order (which is noted in the pll2plx10gr2_toolset script):

- messge45.pll
- ariiflib.pll
- stand45.pll
- calend45.pll
- find45.pll
- item45.pll
- tools45.pll
- mblock45.pll
- mview45.pll
- nav45.pll
- work45.pll
- itnumtype.pll
- hierfilter.pll
- rmslib.pll

4. Check to make sure that each .pll file has a corresponding .plx (to ensure that all .pll's compiled successfully).
5. Remove all newly created .plx files.
6. Copy all forms (*.fmb files) in the INSTALL_DIR/toolset/src directory to the INSTALL_DIR/toolset/bin directory.
7. Run fmb2fmx10gr2_fm (in INSTALL_DIR/toolset/bin) to compile the Toolset reference forms.
8. Remove all newly created fm_*.fmx files (reference forms should not have executable files).
9. Run fmb2fmx10gr2 (in INSTALL_DIR/toolset/bin) to generate Toolset runtime forms – .fmx's.
10. Check to make sure that each non-reference form (.fmb file) has a corresponding .fmx file.

Note: Disregard fm_*.fmx files should they be created. These files should be removed. They should NOT exist in the INSTALL_DIR/toolset/bin directory.

11. Remove all non-reference forms from INSTALL_DIR/toolset/bin; the following syntax leaves all reference forms (fm_*.fmb) in the bin directory, while removing all other forms:

```
> for PROG in `ls *.fmb | grep -v fm_`
> do PROGNAME=`echo $PROG`
> rm $PROGNAME
> done
```

12. Copy all menus (*.mmb files) in the INSTALL_DIR/toolset/src directory to the INSTALL_DIR/toolset/bin directory.
13. Run mmb2mmx10gr2 (in INSTALL_DIR/toolset/bin) to generate Toolset runtime menus – .mmx's.
14. Check to make sure that each .mmb file has a corresponding .mmx file.

Note: .err files may be created by the compilation scripts above. These files are logs of the compilation process and can be removed.

15. Remove all .mmb files from INSTALL_DIR/toolset/bin.

RMS Forms Installation

1. Copy all the files from STAGING_AREA/forms/src to INSTALL_DIR/rms/forms/src.
2. Copy all libraries (.pll files) in the INSTALL_DIR/rms/forms/src directory to the directories to the INSTALL_DIR/rms/forms/bin directory.
3. Change directories to INSTALL_DIR/rms/forms/bin.
4. Run pll2plx10gr2_forms to compile all RMS .pll's.
5. Check to make sure that each .pll file has a corresponding .plx (to ensure that all .pll's compiled successfully). Remove all newly created .plx files.
6. Copy all forms (*.fmb files) in the INSTALL_DIR/rms/forms/src directory to the INSTALL_DIR/rms/forms/bin directory.
7. Run fmb2fmx10gr2_fm (in INSTALL_DIR/rms/forms/bin) to compile the RMS reference forms.

8. Remove all newly created fm_*.fmx files (reference forms should not have executable files).
9. Run fmb2fmx10gr2 (in INSTALL_DIR/rms/forms/bin) to generate RMS runtime forms – .fmx’s.
10. Check to make sure that each non-reference form .fmb file has a corresponding .fmx file.

Note: Disregard fm_*.fmx files should they be created. These files should be removed. They should NOT exist in the INSTALL_DIR/rms/forms/bin directory.

11. Remove all non-reference form forms from INSTALL_DIR/rms/forms/bin; the following syntax leaves all reference forms (fm_*.fmb) in the bin directory, while removing all other forms:

```
> for PROG in `ls *.fmb | grep -v fm_`
> do PROGNAME=`echo $PROG`
> rm $PROGNAME
> done
```
12. Copy all menus (*.mmb files) in the INSTALL_DIR/rms/forms/src directory to the INSTALL_DIR/rms/forms/bin directory.
13. Run mmb2mmx10gr2 (in INSTALL_DIR/rms/forms/bin) to generate RMS runtime menus – .mmx’s.
14. Check to make sure that each .mmb file has a corresponding .mmx file.
15. Remove all .mmb files from INSTALL_DIR/rms/forms/bin.

Note: .err files may be created by the compilation scripts above. These files are logs of the compilation process and can be removed.

Verify Installation

Load RMS in Forms 10gR2 mode by entering the following URL in a browser. Prior to testing, the Sun JRE 1.4.1+ plug-in needs to be installed on the client machine. The plug-in can be downloaded from <http://java.sun.com/>.

- `http://<server>:<port>/forms/frmservlet?config=<env>`
- server = name or IP address of server where Oracle AS 10gR2 is running
- port = Value of the “Listen” setting in AS10G_ORACLE_HOME/Apache/Apache/conf httpd.conf (default value is 7778)
- env = name of the environment in brackets in formsweb.cfg.

Example: <http://server:7778/forms/frmservlet?config=rms>

Note: The first time RMS is accessed, the user will be prompted with the following security warning. Click Yes.



RMS Reports Installation

1. Copy all reports (*.rdf files) in the STAGING_AREA/reports/src directory to the INSTALL_DIR/rms/reports/bin directory.
2. Run rdf2rep10gr2 (in INSTALL_DIR/rms/reports/bin) to generate Reports runtime reports – .rep's.

Note: The following error messages may appear when running rdf2rep10gr2; these errors can be ignored if report (.rep) generation was successful:

REP-0759: One or more PL/SQL libraries have been modified since the report was saved. The PL/SQL will be recompiled.

REP-0202: Attempt to free a null pointer

REP-0759 is generated by the r25conv program. The error appears any time a report is converted.

REP-0202 is due to an Oracle bug with rwconverter and can be ignored

3. Check to make sure that each .rdf file has a corresponding .rep file.
4. Remove all .rdf files from INSTALL_DIR/rms/reports/bin.

Note: .err files may be created by the compilation scripts above. These files are logs of the compilation process and can be removed.
