Oracle® Retail Merchandising System

Installation Guide

Release 11.0.16

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ORACLE

Oracle® Retail Merchandising System Installation Guide, Release 11.0.16

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Value-Added Reseller (VAR) Language

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Contents

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 11.0.16 documentation set:

- Oracle Retail Merchandising System Release Notes
- Oracle Retail Merchandising System Data Model
- Oracle Retail Merchandising System Operations Guide Addendum

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.

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Preinstallation Tasks

Database Server

RMS supports both 10G and 9i, as listed below:

Supported on 10gR2	Versions Supported:
Database Server OS	OS certified with Oracle Database 10gR2 Enterprise Edition. Options are: ▪ AIX 5.2 ▪ AIX 5.3 ▪ Solaris 9 (SPARC) ▪ HP-UX 11.11 (PA-RISC) ▪ HP-UX 11.31 (Itanium)
Database Server	Oracle Database 10g Release 2 Enterprise Edition (10.2.0.4 patchset required) with the following components: ▪ Oracle Database 10g ▪ Oracle Partitioning ▪ Oracle Net Services ▪ Oracle Call Interface (OCI) ▪ Oracle Programmer ▪ Oracle XML Development Kit ▪ Companion CD **Patches:** ▪ 10.2.0.4 patchset: 6810189 ▪ AIX oneoff patch: 6154596 (PRO*C THROWS PCC-2014 WHEN DIAGNOSTIC DIRECTIVE #WARNING IS USED) **Other components:** ▪ Perl compiler 5.0 or later ▪ X-Windows interface ▪ ANSI compliant C compiler (certified with OS and database version)

Supported on 9iR2	Versions Supported:
Database Server OS	OS certified with Oracle Database 9i Enterprise Edition. Options: ▪ AIX 5.2 ▪ AIX 5.3 ▪ Solaris 9 (SPARC) ▪ HP-UX 11.11 (PA-RISC) Oracle Database 9i Enterprise Edition (9.2.0.8 patchset required) with the following components: ▪ Oracle 9i Database ▪ Oracle Partitioning ▪ Oracle Net Services - Oracle Net Listener ▪ Oracle Call Interface (OCI) ▪ Oracle Programmer ▪ Pro*C/C++ ▪ Oracle XML Developers Kit **Patches:** ▪ 9.2.0.8 patchset: 4547809 ▪ Oneoff patch: 4689959 (DST RULE CHANGE IN US, NEED to PATCHED TIMEZONE FILES) **Other components:** ▪ Perl compiler 5.0 or later ▪ X-Windows interface

Application Server

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

Supported on:	Versions Supported:
Application Server OS	Oracle Developer Suite (Oracle Forms) 10g (10.1.2.0.2). Options are: ▪ AIX 5.2 ▪ AIX 5.3 ▪ Solaris 9 (SPARC) ▪ HP-UX 11.11 (PA-RISC) ▪ HP-UX 11.31 (Itanium)
Application Server	Oracle Developer Suite (Oracle Forms) 10g (10.1.2.0.2)

Client PC and Web Browser Requirements

Requirement	Version
Operating system	Windows 2000 or XP
Display resolution	1024x768
Processor	minimum1GHz
Memory	minimum of 512MBytes
Sun JRE	1.5.0.6
Microsoft Internet Explorer	version 5.5 or higher

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Database Installation Instructions

Before you apply the RMS 11.0.16 patch:

- Make a backup of all your objects and database schema.
- Check that RMS 11.0.14 is installed.
- Review the enclosed RMS 11.0.16 Release Notes.
- Review each of the enclosed defect documents.

Before copying over any files:

- Note whether customizations have been made to the module. If so, 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 RMS11DEV as the Oracle owning schema.

Copy from the CD Directory

1. Copy the rms11016dbpatch.zip file from the CD /dbserverunix directory to a newly created staging directory on your UNIX server.
2. Unzip the file by entering:
   ```
   unzip rms11016dbpatch.zip
   ```

Update RMS Triggers

1. Change directories to staging area/triggers.
2. Log into sqlplus as RMS11DEV and run the following command:
   ```
   SQL> @patch11016trg.sql
   ```
3. Check the log file patch11016trg.log for any errors.

Update RMS Tables

1. Change directories to staging area/dbcs.
2. Log into sqlplus as RMS11DEV and run the following command:
   ```
   SQL> @patch11016dbcs.sql
   ```
3. Check the log file patch11016dbcs.log for any errors.

Update RMS Database Objects

1. Change directories to staging area/db_objects.
2. Log into sqlplus as RMS11DEV and run the following command:
   ```
   SQL> @patch11016rms.sql
   ```
3. Check the log file patch11016rms.log for any errors.

Update Data for RMS

1. Change directories to staging area/data.
2. Log into sqlplus as RMS11DEV and run the following command:
   `SQL> @patch11016ctl.sql`
3. Check the log file patch11016ctl.log for any errors.

Update Pricing Tables

1. Change directories to staging area/pricing/dbcs.
2. Log into sqlplus as RMS11DEV and run the following command:
   `SQL> @pricing11016dbcs.sql`
3. Check the log file pricing11016dbcs.log for any errors.

Update Pricing Types

Note: Ora-4043 errors regarding object does not exist can be ignored.

1. Change directories to staging area/pricing/types.
2. Log into sqlplus as RMS11DEV and run the following command:
   `SQL> @pricing11016types.sql`
3. Check the log file pricing11016types.log for any errors.

Update Pricing Database Objects

1. Change directories to staging area/pricing/db_objects.
2. Log into sqlplus as RMS11DEV and run the following command:
   `SQL> @pricing11016rms.sql`
3. Check the log file pricing11016rms.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 more invalid objects remain.

1. Change directories to INSTALL_DIR/utility.
2. Log into sqlplus as RMS11DEV and run the following command:
   `SQL> @inv_obj_comp.sql`
3. This script may need to be run more than once.

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.

Setting Environment Variables

1. As the retek user,make sure the following variables are set:

   > **Note:** INSTALL_DIR is the location where RMS 11 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 only:

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

   HP only:

   ```
   SHLIB_PATH=$ORACLE_HOME/lib:$MMHOME/oracle/lib/bin:$SH_LIBPATH
   ```

   Solaris only:

   ```
   LD_LIBRARY_PATH=$ORACLE_HOME/lib: $MMHOME/oracle/lib/bin:$LD_LIBRARY_PATH
   ```

2. Change directories to INSTALL_DIR/rms/oracle/lib/src and run the following commands.
   a. To make library dependencies:
      `make –f retek.mk depend 2>&1 | tee libdpnd.log`
   b. Check the libdpnd.log file for errors.
   c. To make batch libraries:
      `make –f retek.mk retek rms resa 2>&1 | tee libretek.log`
   d. Check the libretek.log file for errors.
   e. To install batch libraries:
      `make –f retek.mk install`

   The batch libraries should now be in INSTALL_DIR/rms/oracle/lib/bin
3. Copy the files from staging are/batch/proc/src to INSTALL_DIR/rms/oracle/proc/src.
4. Change directories to INSTALL_DIR/rms/oracle/proc/src and run the following commands.
   a. To make dependencies:
      `make –f mts.mk rms-depend recs-depend rtm-depend resa-depend 2>&1 | tee srcdpnd.log`
   b. Check the srcdpnd.log file for errors.
   c. To make batch programs:

      Because of an additional make command the following command must be run first:

      `make –f rms.mk PRODUCT_PROCFLAGS=dynamic=ansi ditinsrt`

      To make the rest of the batch programs run the following command:

      `make –f mts.mk rms-ALL recs-ALL resa-ALL rtm-ALL 2>&1 | tee srcall.log`
   d. Check the srcall.log file for errors.

e. To install 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.

> **Note:** The following steps only need to be completed if Oracle Financials will be interfaced.

5. To make FIF batch programs.

a. To make the dependencies run this command:

```
make –f mts.mk fif-depend
```

b. To make the batch program run this command:

```
make –f mts.mk fif-ALL
```

c. To install batch programs:

```
make –f mts.mk fif-install
```

The Oracle Financials Interface batch programs should now be in INSTALL_DIR/rms/oracle/proc/bin.

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Application Server Installation Instructions

> **Note:** Oracle Application Server 10g version 10.1.2.0.2 (OAS) is now supported with this release. 9iAS10G continues to be supported. Install instructions will be noted for both versions below.
>
> INSTALL_DIR is the directory where the RMS 11.x files were extracted to.

Copy from CD Directory

1. Copy the rms11016apppatch.zip file from the CD /appserverunix directory to a newly created staging directory on your UNIX server.
2. Unzip the file by entering:
   `unzip rms11016apppatch.zip`

Setup

1. As the retek user, set the DISPLAY variable to the IP address plus ":0.0" (ie: 10.1.1.1:0.0) of the machine that is being used to perform the compilation from.
2. As the retek user, set the following variables:

> **Note:** INSTALL_DIR is the location where RMS 11 was installed.
>
> **Note:** APPSERVER_ORACLE_HOME is the location where either Oracle 9iAS 10g or OAS 10.1.2.0.2 was installed.
>
> **Note:** If using Oracle 9iAS run the scripts with '9i' in them. If using OAS 10.1.2.0.2 run the scripts with '10gr2' in them. Scripts are noted in the install instructions below.

```
ORACLE_HOME=APPSERVER_ORACLE_HOME
PATH=$ORACLE_HOME/bin:INSTALL_DIR/forms9i_scripts:$PATH
   OR
PATH=$ORACLE_HOME/bin:INSTALL_DIR/forms10gr2_scripts:$PATH
```

Solaris only:

```
LD_LIBRARY_PATH=$ORACLE_HOME/lib:$ORACLE_HOME/jdk/jre/lib/sparc:$ORACLE_HOME/j
dk/jre/lib/sparc/native_threads
```

HP-UX only:

```
SHLIB_PATH=$ORACLE_HOME/lib32:$ORACLE_HOME/lib:$ORACLE_HOME/jdk/jre/lib/PA_RIS
C:$ORACLE_HOME/jdk/jre/lib/PA_RISC/server
```

AIX only:

```
LD_LIBRARY_PATH=$ORACLE_HOME/lib:$ORACLE_HOME/lib32:$ORACLE_HOME/jdk/jre/lib
LIBPATH=$LD_LIBRARY_PATH
```

All – For Oracle 9iAS:

```
CLASSPATH=$ORACLE_HOME/jlib/debugger.jar:$ORACLE_HOME/jlib/utj90.jar:$ORACLE_H
OME/jlib/ewt3.jar:$ORACLE_HOME/jlib/share.jar
FORMS90_BUILDER_CLASSPATH=$CLASSPATH
FORMS90_PATH=INSTALL_DIR/toolset/bin:INSTALL_DIR/rms/forms/bin:$ORACLE_HOME/fo
rms90
REPORTS_PATH=INSTALL_DIR/rms/reports/bin:$ORACLE_HOME/forms90
```

All – For Oracle 10gR2:

```
PATH=$ORACLE_HOME/bin:$ORACLE_HOME/opmn/bin:$ORACLE_HOME/dcm/bin:INSTALL_DIR/f
orms10gr2_scripts:$PATH
CLASSPATH=$ORACLE_HOME/jlib/importer:$ORACLE_HOME/jlib/debugger.jar:$ORACLE_HO
ME/jlib/utj.jar:$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.ja
r:$ORACLE_HOME/jlib/jewt4.jar
FORMS_BUILDER_CLASSPATH=$CLASSPATH
FORMS_PATH=INSTALL_DIR/toolset/bin:INSTALL_DIR/rms/forms/bin:$O
RACLE_HOME/forms
REPORTS_PATH=INSTALL_DIR/rms/reports/bin:$ORACLE_HOME/forms
TK_UNKNOWN==$ORACLE_HOME/guicommon/tk/admin
UP=<RMS schema owner>/<RMS schema password>@<RMS database>
```

Solaris/AIX only:

```
UP=<RMS schema owner>/<RMS schema password>@<RMS database>
```

HP-UX only:

```
UP=<RMS schema owner>/<RMS schema password>\@<RMS database>
```

Toolset

1. Change directories to INSTALL_DIR/toolset/bin.
2. Run f90plsqlconv_pll_stand45 or f10gr2plsqlconv_pll_stand45 to automatically attach the Forms library rp2rro.pll to stand45.pll. This library must be attached to stand45.pll in order to run RMS reports.
3. Remove the newly created stand45.pld should it be created from running f90plsqlconv_pll_stand45 or f10gr2plsqlconv_pll_stand45.
4. Run pll2plx9i_toolset or pll2plx10gr2_toolset to compile all Toolset .pll's.
5. Check to make sure that each .pll file has a corresponding .plx (to ensure that all .pll's compiled successfully). If a library fails to compile (there is no .plx file), it has to be manually compiled.
6. Remove all newly created .plx files.
7. Run fmb2fmx9i_fm or 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 fmb2fmx9i or 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. If a form fails to compile (there is no .fmx file), it has to be manually compiled.

> **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 form 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 mmb2mmx9i or 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. If a menu fails to compile (there is no .mmx file), it has to be manually compiled.

> **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.

Forms

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 pll2plx9i_forms or 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). If a library fails to compile (there is no .plx file), it has to be manually compiled.
6. Remove all newly created .plx files.
7. Copy all forms (*.fmb files) in the INSTALL_DIR/rms/forms/src directory to the INSTALL_DIR/rms/forms/bin directory.
8. Run fmb2fmx9i_fm or fmb2fmx10gr2_fm (in INSTALL_DIR/rms/forms/bin) to compile the RMS reference forms.
9. Remove all newly created fm_*.fmx files (reference forms should not have executable files).
10. Run fmb2fmx9i or fmb2fmx10gr2 (in INSTALL_DIR/rms/forms/bin) to generate RMS runtime forms – .fmx's.
11. Check to make sure that each non-reference form .fmb file has a corresponding .fmx file. If a form fails to compile (there is no .fmx file), it has to be manually compiled.

> **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.

12. 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
```

13. Copy all menus (*.mmb files) in the INSTALL_DIR/rms/forms/src directory to the INSTALL_DIR/rms/forms/bin directory.
14. Run mmb2mmx9i or mmb2mmx10gr2 (in INSTALL_DIR/rms/forms/bin) to generate RMS runtime menus – .mmx's.
15. Check to make sure that each .mmb file has a corresponding .mmx file. If a form fails to compile (there is no .mmx file), it has to be manually compiled.
16. 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.

A

Appendix: AIX Shared Library Bug Fix for 10.2.0.4

The env_rdbms.mk file for Oracle 10g has Bug #2143531. This bug has not been fixed because there is a workaround. The workaround is to edit the functions BUILD_WITH_CONTEXT and BUILD_WITH_NO_CONTEXT in the make file **$ORACLE_HOME/rdbms/lib/env_rdbms.mk.** The changes are shown below in bold/italic.

```
-------------------------------------------
BUILDLIB_WITH_CONTEXT=generate_export_list() \
{ \
/bin/nm -X32_64 -B -h -g "$$1" | grep -v ' U ' | awk '{print $$3}' | \
egrep -v '^\.|^TOC' | sort | uniq ; \
}; \
generate_import_list() { \
LIB_NAME=$$1; \
IMP_FILE=$$2; \
\
cat ${ORACLE_HOME}/rdbms/lib/xa.imp | head -1 | awk '{print $$0, "." }' >
$${IMP_FILE}; \
/bin/nm -X32_64 -C -B -h -g $${LIB_NAME} | grep ' U ' | grep -v "::" | grep -v "("
| grep -v "\.cc" | awk '{print $$3}' | sed -e "s/\.//g
" | grep -v "^_" >> $${IMP_FILE}; \
}; \
\
generate_import_list "$(OBJS)" $(SHARED_LIBNAME).imp; \
generate_export_list $(OBJS) > $(SHARED_LIBNAME).exp; \
$(LD) -bnoentry -bM:SRE -bE:$(SHARED_LIBNAME).exp -bI:$(SHARED_LIBNAME).imp \
-o $(SHARED_LIBNAME) $(OBJS) -L$(ORACLE_HOME)/lib -lc_r -lm $(LLIBCLNTSH)
$(MATHLIB)
-------------------------------------------
BUILDLIB_NO_CONTEXT=generate_export_list() \
{ \
/bin/nm -X32_64 -B -h -g "$$1" | grep -v ' U ' | awk '{print $$3}' | \
egrep -v '^\.|^TOC' | sort | uniq ; \
}; \
generate_import_list() { \
LIB_NAME=$$1; \
IMP_FILE=$$2; \
\
cat ${ORACLE_HOME}/rdbms/lib/xa.imp | head -1 | awk '{print $$0, "." }' >
$${IMP_FILE}; \
/bin/nm -X32_64 -C -B -h -g $${LIB_NAME} | grep ' U ' | grep -v "::" | grep -v "("
| grep -v "\.cc" | awk '{print $$3}' | sed -e "s/\.//g
" | grep -v "^_" >> $${IMP_FILE}; \
}; \
\
generate_import_list "$(OBJS)" $(SHARED_LIBNAME).imp; \
generate_export_list $(OBJS) > $(SHARED_LIBNAME).exp; \
$(LD) -bnoentry -bM:SRE -bE:$(SHARED_LIBNAME).exp -bI:$(SHARED_LIBNAME).imp \
-o $(SHARED_LIBNAME) $(OBJS) -L$(ORACLE_HOME)/lib -lc_r -lm $(LLIBCLNTSH)
$(MATHLIB)
```