Oracle® Retail Merchandising System

Installation Guide
Release 12.0.9

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ORACLE

Oracle® Retail Merchandising System Installation Guide, Release 12.0.9

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Value-Added Reseller (VAR) Language

Oracle Retail VAR Applications

The following restrictions and provisions only apply to the programs referred to in this section and licensed to you. You acknowledge that the programs may contain third party software (VAR applications) licensed to Oracle. Depending upon your product and its version number, the VAR applications may include:

(i) the software component known as **ACUMATE** developed and licensed by Lucent Technologies Inc. of Murray Hill, New Jersey, to Oracle and imbedded in the Oracle Retail Predictive Application Server – Enterprise Engine, Oracle Retail Category Management, Oracle Retail Item Planning, Oracle Retail Merchandise Financial Planning, Oracle Retail Advanced Inventory Planning and Oracle Retail Demand Forecasting applications.

(ii) the **MicroStrategy** Components developed and licensed by MicroStrategy Services Corporation (MicroStrategy) of McLean, Virginia to Oracle and imbedded in the MicroStrategy for Oracle Retail Data Warehouse and MicroStrategy for Oracle Retail Planning & Optimization applications.

(iii) the **SeeBeyond** component developed and licensed by Sun MicroSystems, Inc. (Sun) of Santa Clara, California, to Oracle and imbedded in the Oracle Retail Integration Bus application.

(iv) the **Wavelink** component developed and licensed by Wavelink Corporation (Wavelink) of Kirkland, Washington, to Oracle and imbedded in Oracle Retail Store Inventory Management.

(v) the software component known as **Crystal Enterprise Professional and/or Crystal Reports Professional** licensed by Business Objects Software Limited ("Business Objects") and imbedded in Oracle Retail Store Inventory Management.

(vi) the software component known as **Access Via™** licensed by Access Via of Seattle, Washington, and imbedded in Oracle Retail Signs and Oracle Retail Labels and Tags.

(vii) the software component known as **Adobe Flex™** licensed by Adobe Systems Incorporated of San Jose, California, and imbedded in Oracle Retail Promotion Planning & Optimization application.

(viii) the software component known as **Style Report™** developed and licensed by InetSoft Technology Corp. of Piscataway, New Jersey, to Oracle and imbedded in the Oracle Retail Value Chain Collaboration application.

(ix) the software component known as **DataBeacon™** developed and licensed by Cognos Incorporated of Ottawa, Ontario, Canada, to Oracle and imbedded in the Oracle Retail Value Chain Collaboration application.

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 12.0.9 documentation set:

- Oracle Retail Merchandising System Release Notes
- Oracle Retail Merchandising System Online Help
- Oracle Retail Merchandising System User Guide
- Oracle Retail Operations Guide - Batch Overviews and Designs - Volume 1
- Oracle Retail Merchandising System Data Model
- Oracle Retail Merchandising Batch Schedule
- Oracle Retail Trade Management (RTM) User Guide

Customer Support

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

Check Database Server Requirements

General Requirements for a database server running RMS include:

Supported on:	Versions Supported:
Database Server OS	OS certified with Oracle Database 10g Enterprise Edition. Options are: ▪ AIX 5.2 ▪ AIX 5.3 ▪ Solaris 10 (SPARC) ▪ HP-UX 11.23 (PA-RISC) ▪ Oracle Enterprise Linux 4 Update 4 for x86-64 (see the RMS on Oracle Enterprise Linux Specific Requirements table below)
Database Server	Oracle Database 10g Release 2 Enterprise Edition (minimum 10.2.0.3.0 patchset required) with the following patches and components: Patches: ▪ 5397953 (ORA-07445: [KKPAPITGETALL()+2152] [SIGSEGV] [ADDRESS NOT MAPPED TO OBJECT]) ▪ 5921386 WRONG RESULT WITH MERGE JOINT OUTER IN THE EXECUTION PLAN Components: ▪ Oracle Database 10g ▪ Oracle Partitioning ▪ Oracle Net Services ▪ Oracle Call Interface (OCI) ▪ Oracle Programmer ▪ Oracle XML Development Kit ANSI compliant C compiler (certified with OS and database version) 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 version 10.1.2.2. Options are: ▪ AIX 5.2 ▪ AIX 5.3 ▪ Solaris 10 (SPARC) ▪ HP-UX 11.23 (PA-RISC) ▪ Oracle Enterprise Linux 4 Update 4 for x86-64 (see the RMS on Oracle Enterprise Linux Specific Requirements table below)
Application Server	Oracle Application Server Forms and Reports 10g version 10.1.2.2 Patches: ▪ 5123798 ERROR WHEN PASSING COMPOSITE PARAMETERS TO SP FROM 64BIT CLIENT (HP-UX PA-RSC 11.23)

RMS on Oracle Enterprise Linux Specific Requirements

Supported on:	Versions Supported:
Database Server OS	Oracle Enterprise Linux 4 Update 4 for x86-64 Minimum kernel version kernel-smp-2.6.9-42.0.0.0.1.EL.x86_64
Database Server	Oracle Database 10g Release 2 Enterprise Edition for Linux x86-64 Minimum 10.2.0.3 patchset and the following patches: ▪ 5397953 (ORA-07445: [KKPAPITGETALL()+2152] [SIGSEGV] [ADDRESS NOT MAPPED TO OBJECT])
Oracle Application Server	Oracle Application Server 10g Release 2 (10.1.2.2) for Linux x86
Application Server OS	Oracle Enterprise Linux 4 Update 4 for x86-64 Minimum kernel version kernel-smp-2.6.9-42.0.0.0.1.EL.x86_64
Configuration requirement	Database server and application server should be configured with the “No RIB” option.

Check Web Browser and Client Requirements

General requirements for client running RMS include:

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)	12.0.9
Oracle Retail Allocation	12.0.9
Oracle Retail Invoice Matching (ReIM)	12.0.9
Oracle Retail Store Inventory Management (SIM)	12.0.9
Oracle Retail Warehouse Management System (RWMS)	12.0.9
Oracle Retail Data Warehouse (RDW)	12.0.9

Supported Oracle Retail Integration Technologies

Integration Technology	Version
Oracle Retail Extract, Transform and Load (RETL)	12.0.9
Oracle Retail Integration Bus (RIB)	12.0.9
Oracle Retail Service Layer (RSL)	12.0.9

Supported Oracle Applications

Requirement	Version
Oracle E-Business Suite	11.5.10 or 12.0.2

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RAC and Clustering

Real Application Cluster RDBMS and 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

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Database Installation Tasks

Before you apply the RMS 12.0.9 patch:

- Make a backup of all your objects and database schema.
- Check that RMS 12.0.8 is installed.
- Review the enclosed RMS 12.0.9 Patch Release Notes (rms-1209-rn.pdf).
- Review each of the enclosed defect documents.

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.

Mount CD-ROM on the Database Server

1. Copy the rms1209dbpatch.zip file from the CD /dbserverunix directory to a newly created staging directory on your UNIX server.
2. Unzip the file by entering:
   `unzip rms1209dbpatch.zip`

Alter Pricing Objects

Alter Pricing types

1. Change directories to STAGING_AREA/pricing/types.
2. Log in to SQL*Plus as RMS12DEV and run the following command:
   `SQL> @pricing1209types.sql`
3. Check the log file pricing1209types.log for any errors.

Alter Pricing DDL

1. Change directories to STAGING_AREA/pricing/dbcs.
2. Log in to SQL*Plus as RMS12DEV and run the following command:
   `SQL> @pricing1209dbcs.sql`
3. Check the log file pricing1209dbcs.log for any errors.

Alter Pricing Objects

1. Change directories to STAGING_AREA/pricing/db_objects.
2. Log in to SQL*Plus as RMS12DEV and run the following command:
   ```
   SQL> @pricing1209rms.sql
   ```
3. Check the log file pricing1209rms.log for any errors noting that ORA-04043 errors are to be ignored.

Alter RIB Objects

Alter RIB Objects

1. Change directories to STAGING_AREA/rib_objects/db_objects.
2. Log in to SQL*Plus as RMS12DEV and run the following command:
   ```
   SQL> @patch1209rib.sql
   ```
3. Check the log file patch1209rib.log for any errors.

Alter RMS Objects

Alter RMS Tables

1. Change directories to STAGING_AREA/dbcs.
2. Log in to SQL*Plus as RMS12DEV and run the following command:
   ```
   SQL> @patch1209dbcs.sql
   ```
3. Check the log file patch1209dbcs.log for any errors.

Alter RMS Database Objects

1. Change directories to STAGING_AREA/db_objects.
2. Log in to SQL*Plus as RMS12DEV and run the following command:
   ```
   SQL> @patch1209rms.sql
   ```
3. Check the log file patch1209rms.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 in to SQL*Plus 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:** Esure that you have your NLS_LANG set to UTF-8. For example AMERICAN_AMERICA.UTF8

1. Change directories to STAGING_AREA/data.
2. Log in to SQL*Plus as RMS12DEV and run the following command:
   `SQL> @patch1209ctl.sql`
3. Check the log file patch1209ctl.log for any errors.

Insert Secondary Language Data

> **Note:** These scripts are only for customers who wish to have a primary language of English and a secondary language of any combination of the following: German, Spanish, French, Italian, Korean, Russian, Brazilian Portuguese, Japanese, Simplified Chinese or Traditional Chinese. The scripts are UTF-8 encoded. We recommend installing them into a database that has been set to UTF-8.

1. Change directories to INSTALL_DIR/data/lang/<lang>.
   <lang> is the country code for the language you wish to install.
2. Set the SQL*Plus session so that the encoding component of the NLS_LANG is UTF8. For example,AMERICAN_AMERICA.UTF8
3. Log in to SQL*Plus as RMS12DEV and run the following command:
   `SQL> @ patch1209ctl_<lang>_sec.sql`
4. Check the log file patch1209ctl_<lang>_sec.log for any errors.
   - <lang> is the country code for the language you wish to install.
   - de – German
   - es – Spanish
   - fr – French
   - it - Italian
   - ja – Japanese
   - ko – Korean
   - ptb – Brazilian Poruguese
   - ru - Russian
   - zhs – Simplified Chinese
   - zht – Traditional Chinese

> **Note:** Multiple secondary languages can be added to a primary language install of English.

Insert Primary Language Data

> **Note:** These scripts are only for customers who wish to have a primary language of one of the following: German, Spanish, French, Italian, Russian, Korean, Brazilian Portuguese, Japanese, Simplified Chinese or Traditional Chinese. . The scripts are UTF-8 encoded. We recommend installing them into a database that has been set to UTF-8.
>
> The following scripts prompt for a country code and a currency code. Make sure you use either a two or three letter country code based on what was chosen previously.

1. Change directories to INSTALL_DIR/data/lang/<lang>.

   <lang> is the country code for the language you wish to install.
2. Set the SQL*Plus session so that the encoding component of the NLS_LANG is UTF8. For example AMERICAN.AMERICA.UTF8
3. Log in to SQL*Plus as RMS12DEV and run the following command:

   ```
   SQL> @patch1209ctl_<lang>_prim.sql
   ```
4. Check the log file patch1209ctl_<lang>_prim.log for any errors.
   - <lang> is the country code for the language you wish to install.
   - de – German
   - es – Spanish
   - fr – French
   - it - Italian
   - ja – Japanese
   - ko – Korean
   - ptb – Brazilian Poruguese
   - ru - Russian
   - zhs – Simplified Chinese
   - zht – Traditional Chinese

   > **Note:** Only one language can be set as the primary langauge for the system.

Update RETL for RDW

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

1. Change directories to STAGING_AREA/retl4RDW/rfx/schema.
2. Copy all the files from this directory to INSTALL_DIR/retl/rfx/schema.

   ```
   cp -R * INSTALL_DIR/retl/rfx/schema
   ```
3. Change directories to STAGING_AREA/retl4RDW/rfx/src.
4. Copy all the files from this directory to INSTALL_DIR/retl/rfx/src.

   ```
   cp -R * INSTALL_DIR/retl/rfx/src
   ```

Update RETL for RPAS

> **Note:** These steps only need to be done if you are using RPAS.

1. Change directories to STAGING_AREA/retl4RPAS/rfx/src.
2. Copy all the files from this directory to INSTALL_DIR/retl/rfx/src.
   ```
   cp -R * INSTALL_DIR/retl/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. Change directories to INSTALL_DIR/rms/oracle/lib/src.
2. 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.
3. 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.
4. 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.

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Application Server Installation Tasks

Mount CD-ROM on the Database Server

1. Copy the rms1209apppatch.zip file from the CD /appserverunix directory to a newly created staging directory on your UNIX server.
2. Unzip the file by entering:
   `unzip rms1209apppatch.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 in to 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=$LD_LIBRARY_PATH
- **Oracle Enterpirse Linux**
  - LD_LIBRARY_PATH=$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.

> **Note:** 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 and Update Help File Installation

1. Unzip web_help.zip from <staging area>/webhelp at this spot

   <INSTALL>/web_html

   Help file structure should be something similar to:
   /u1/app/rmsprd/web_html/helpfiles/english/rms
2. Make sure the rhelp.pl is in the /java/help/ directory.

   $HELP_DIR/web_html/help/rhelp.pl
3. Edit the http.conf file and directory name where help files are located. Edit the OAS 10.1.2.x Application server httpd.conf file by adding the updated rms12unix.conf entries to the end of the httpd.conf:
   a. Add this in the httpd.conf file to use the perl script. It should go just above the aliases:

      Alias /java/help/ "$HELP_DIR/web_html/help/" (This should be pointed to the "java/help" alias to the rhelp.pl)

```
.
#PerlRequire
<Location /java/help>
SetHandler perl-script
PerlHandler Apache::Registry
AddHandler perl-script .pl
```

```
Options +ExecCGI
PerlSendHeader On
</Location>
```

b. Set the aliases set up in the http.conf file. Add these aliases to the end of the file

```
.
Alias /web_gif/ "$HELP_DIR/web_html/gif/"
Alias /en/ "$HELP_DIR/web_html/helpfiles/english/"

Alias /EN/ "$HELP_DIR/web_html/helpfiles/english/"
Alias /english/ "$HELP_DIR/web_html/helpfiles/english/"
Alias /french/ "$HELP_DIR/web_html/helpfiles/french/" ## If a French
language customer
Alias /temp/ "$HELP_DIR/web_html/temp/"
.
```

Note: Point the "en", "EN", and "english" alias to the rms directory, one level above the help files and include all variations of the "english" directory:

Create a directory to put these files. We will call this the $HELP_DIR for this example. This will have the following structure
$HELP_DIR/web_html/gif
$HELP_DIR/web_html/help
$HELP_DIR/web_html/helpfiles/english/rms ## They may have a different language and make adjustments here:
$HELP_DIR/web_html/temp

4. Make sure the *.gif files are in the $HELP_DIR/web_html/gif directory.
5. Make sure there is a "forms" directory and that the form files (for example, fm_rtkstrtw_main.htm) are located in the forms directory: $HELP_DIR/web_html/helpfiles/english/rms/forms/forms_q_r/fm_rtkstrtw_main.htm
6. Reload the Oracle HTTP Server. A full shutdown and start up of the OAS 10.1.2.x HTTP server causes the configuration file changes to take effect.
   a. Do a process grep on any OAS process to make sure they come down: ps -ef | grep <user_name> | grep <OAS_NAME> (for example, ps -ef | grep retailadm | grep 10.1.2.0.2_midtier)
7. The URL for the help files should launch successfully in this structure of a URL for english help files: http://<server>:<http_port>//java/help/rhelp.pl?DIRECTORY=_port>//en&FILENAME=forms/forms_q_r/fm_rtkstrtw_main.htm&RTKPRODUCT=RMS
8. 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 (from step 7 above).

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

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