Oracle® Retail Merchandising System

Installation Guide
Release 12.0.5.2

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ORACLE

Oracle® Retail Merchandising System Installation Guide, Release 12.0.5

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Value-Added Reseller (VAR) Language

(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.

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(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 **i-net Crystal-Clear™** developed and licensed by I-NET Software Inc. of Berlin, Germany, to Oracle and imbedded in the Oracle Retail Central Office and Oracle Retail Back Office applications.

(x) the software component known as **WebLogic™** developed and licensed by BEA Systems, Inc. of San Jose, California, to Oracle and imbedded in the Oracle Retail Value Chain Collaboration application.

(xi) 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 12.0.5 documentation set:

- Oracle Retail Merchandising System Release Notes
- Oracle Retail Merchandising System Online Help
- Oracle Retail Merchandising System User Guide
- Oracle Retail Merchandising System Operations Guide – Volume 1
- Oracle Retail Merchandising System Operations Guide – Volume 2
- Oracle Retail Merchandising System Operations Guide – Volume 3
- Oracle Retail Merchandising System Data Model
- Oracle Retail Merchandising Batch Schedule
- Oracle Retail Merchandising Implementation Guide
- Oracle Retail Integration Bus (RIB) documentation
- Oracle Retail Service Layer (RSL) documentation
- Oracle Retail Extract, Transform and Load (RETL) documentation
- Other Oracle Retail product documentation

Review Patch Documentation

For a base release (".0" release, such as 12.0), Oracle Retail strongly recommends that you read all patch documentation before you begin installation procedures. Patch documentation can contain critical information related to the base release, based on new information 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:

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.

Customer Support

- https://metalink.oracle.com

When contacting Customer Support, please provide:

- Product version and program/module name.
- 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.

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:

- UNIX-based operating system certified with Oracle RDBMS 10g Enterprise Edition (options are AIX5.2, AIX5.3, Solaris 9 (SPARC), and HP-UX 11.23 (PARISC))
- Oracle RDBMS 10g Release 2 Enterprise Edition (minimum 10.2.0.3.0 patchset required) with the following patches and components:
  - Patch 5397953 (ORA-07445: [KKPAPITGETALL()+2152] [SIGSEGV] [ADDRESS NOT MAPPED TO OBJECT])
  - 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 operating system and database version)
- Perl compiler 5.0 or later
- x-Windows interface
- Oracle Enterprise Linux Requirements

  Operating System version:

  - 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

  Oracle RDBMS:

  - Oracle RDBMS 10g Release 2 Enterprise Edition for Linux x86-64
  - Minimum 10.2.0.3 patchset
  - Patches:
    - 5397953 (ORA-07445: [KKPAPITGETALL()+2152] [SIGSEGV] [ADDRESS NOT MAPPED TO OBJECT])
    - 5921386 WRONG RESULT WITH MERGE JOINT OUTER IN THE EXECUTION PLAN

  Oracle Retail Merchandising System:

  - Configured with "No RIB" option

Check Application Server Requirements

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

- UNIX based operating system certified with Oracle Application Server 10g version 10.1.2.2 (options are AIX5.2, AIX5.3, Solaris 9 (SPARC), and HP-UX 11.23 (PARISC))
- Oracle Application Server Forms and Reports 10g version 10.1.2.2
- Patch 5123798 ERROR WHEN PASSING COMPOSITE PARAMETERS TO SP FROM 64BIT CLIENT (HP-UX PA-RSC 11.23)
- Oracle Enterprise Linux

  Operating System version:

  – 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

  Oracle Application Server:

  – Oracle Application Server 10g Release 2 (10.1.2.2) for Linux x86
  – Oracle Application Server 10g Release 3 (10.1.3.0) for Linux x86

  Oracle Retail Merchandising System:

  – Configured with "No RIB" option

Check Web Browser and Client Requirements

General requirements for client running RMS include:

- JRE plug-in:
  – Sun JRE Plug-in 1.4.1+
- Client PCs:
  – Windows 2000 or Windows XP with Pentium processor
  – 1024x768 resolution
  – PC configuration (minimum 256 MB RAM, 450 MHz)
  – Internet Explorer 5.5, 6.0, or higher

Supported Oracle Retail Products

Product	Version
Oracle Retail Price Management (RPM)	12.0.5
Oracle Retail Allocation	12.0.5
Oracle Retail Invoice Matching (ReIM)	12.0.5
Oracle Retail Store Inventory Management (SIM)	12.0
Oracle Retail Warehouse Management System (RWMS)	12.0.5
Oracle Retail Data Warehouse (RDW)	12.0

Supported Oracle Retail Integration Technologies

Integration Technology	Version
Oracle Retail Extract, Transform and Load (RETL)	12.0.1
Oracle Retail Integration Bus (RIB)	12.0.1
Oracle Retail Service Layer (RSL)	12.0.1

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 have 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 12.0.5 patch:

- Make a backup of all your objects and database schema.
- Check that RMS 12.0.4 is installed.
- Review the enclosed RMS 12.0.5 Release Notes (rms-1205-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, 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 referenced at a later date.

Notes:

These instructions refer to RMS12DEV as the Oracle owning schema.

The following grants need to be added for the RMS 12.0.5 patch:

```
grant select on dba_sys_privs to public with
grant option;

grant execute on dbms_crypto to public;
```

Mount CD-ROM on the Database Server

1. Copy the rms1205dbpatch.zip file from the CD /dbserverunix directory to a newly created staging directory on your UNIX server.
2. Unzip the file by entering the following:
   `unzip rms1205dbpatch.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> @pricing1205types.sql`
3. Check the log file pricing1205types.log for any errors. Ignore any ORA-04043 errors and warnings.

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> @pricing1205dbcs.sql
   ```
3. Check the log file pricing1205dbcs.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> @pricing1205rms.sql
   ```
3. Check the log file pricing1205rms.log for any errors. Ignore ORA-04043 errors.

Alter RMS Objects

Alter RMS Tables

> **Note:** The dbc script requires the role CC_ACCESS please log in as a user able to create roles and create the role.

1. Change directories to STAGING_AREA/dbcs.
2. Log in to SQL*Plus as RMS12DEV and run the following command:
   ```
   SQL> @patch1205dbcs.sql
   ```
3. Check the log file patch1205dbcs.log for any errors.

Alter RMS Database Objects

1. Change directories to STAGING_AREA/db_objects.
2. Log into SQL*Plus as RMS12DEV and run the following command:
   ```
   SQL> @patch1205rms.sql
   ```
3. Check the log file patch1205rms.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
   ```
   This script may need to be run more than once.

Update Data for RMS

> **Note:** Ensure that you have set NLS_LANG 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> @patch1205ctl.sql`
3. Check the log file patch1205ctl.log for any errors.

Insert Secondary Language Data

> **Note:** These scripts are only for customers who want 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 into SQL*Plus as RMS12DEV and run the following command:
   `SQL> @ patch1205ctl_<lang>_sec.sql`
4. Check the log file patch1205ctl_<lang>_sec.log for any errors, where <lang> is the country code for the language you want 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 installation of English.

Insert Primary Language Data

> **Note:** These scripts are only for customers who want 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 will prompt for a country code and a currency code. Make sure that you use either a 2- or 3-letter country code, based on what was chosen previously.

1. Change directories to INSTALL_DIR/data/lang/<lang>, where <lang> is the country code for the language you want 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 into SQL*Plus as RMS12DEV and run the following command:
   ```
   SQL> @patch1205ctl_<lang>_prim.sql
   ```
4. Check the log file patch1205ctl_<lang>_prim.log for any errors, where <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 Oracle Retail Data Warehouse (RDW).
>
> Refer to Appendix A and Appendix B for further information on RETL setup.

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

5. Change directories to STAGING_AREA/retl/rfx/schema.
6. Copy all the files from this directory to INSTALL_DIR/retl/rfx/schema:
   `cp -R * INSTALL_DIR/retl/rfx/schema`
7. Change directories to STAGING_AREA/retl/rfx/src.
8. 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:

   Notes:

   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 installation

   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. To make library dependencies, run this command:
   ```
   make –f retek.mk depend 2>&1 | tee libdpnd.log
   ```
   For Oracle Enterprise Linux, run this command:
   ```
   make –f retek.mk –r depend 2>&1 | tee libdpnd.log
   ```
   Check the libdpnd.log file for errors.
4. To make batch libraries:
   ```
   make –f retek.mk retek rms resa 2>&1 | tee libretek.log
   ```
   for Oracle Enterprise Linux run this command:
   ```
   make –f retek.mk –r retek rms resa 2>&1 | tee libretek.log
   ```
   Check the libretek.log file for errors.
5. To install 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. To make dependencies, run the following command:
   ```
   make –f mts.mk rms-depend recs-depend rtm-depend resa-depend 2>&1 | tee srcdpnd.log
   ```
   For Oracle Enterprise Linux, run this command:
   ```
   make –f mts.mk –r rms-depend recs-depend rtm-depend resa-depend 2>&1 | tee srcdpnd.log
   ```
   Check the srcdpnd.log file for errors
5. To make batch programs run the following commands in the order shown:
   ```
   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
   ```
   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
   ```
   Check the srcall.log file for errors
6. 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

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Application Server Installation Tasks

Mount CD-ROM on the Database Server

1. Copy the rms1205apppatch.zip file from the CD /appserverunix directory to a newly created staging directory on your UNIX server.
2. Unzip the file by entering the following:
   ```
   unzip rms1205apppatch.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" (for example, 10.1.1.1:0.0) of the application server.
2. Set the following variables:

   All Operating System 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. For 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 .PLLs.

   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. Make sure that each .pll file has a corresponding .plx (to ensure that all PLLs 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 run-time 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 if they are 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 will leave 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 run-time menus – .mmx's.
14. Check to make sure that each .mmb file has a corresponding .mmx file.

> **Note:** If .err files are created by the compilation scripts, 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 .PLLs.
5. Make sure that each .pll file has a corresponding .plx (to ensure that all .PLLs 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 run-time forms (FMXs).
10. Make sure that each non-reference form .fmb file has a corresponding .fmx file.

> **Note:** Disregard fm_*.fmx files if they are 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 will leave 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 run-time menus (MMXs).
14. Make sure that each .mmb file has a corresponding .mmx file.
15. Remove all .mmb files from INSTALL_DIR/rms/forms/bin.

> **Note:** If .err files are created by the compilation scripts, 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 to this location:
   `<INSTALL>/web_html`

   The help file structure should be similar to the following

   `/u1/app/rmsprd/web_html/helpfiles/english/rms`
2. Make sure that 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 httpd.conf file by adding the updated rms12unix.conf entries to the end of the httpd.conf.
   a. Add the following 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 up the aliases 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 for these files ($HELP_DIR in the following example). This directory 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 that the *.gif files are in the $HELP_DIR/web_html/gif directory.
5. Make sure that 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 will cause the configuration file changes to take effect.

   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
   ```

   > **Note:** 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/.
8. Load RMS in Forms 10gR2 mode by entering the following URL in a browser.

   ```
   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 will be prompted with the following security warning. Click Yes.

A

Appendix: RMS RETL Instructions

This appendix summarizes the RETL program features used in the RMS Extractions (RMS ETL). More information about the RETL tool is available in the latest RETL Programmer's Guide. More information about RMS ETL is available in the RMS ETL Operations Guide.

RETL Configuration

Before trying to configure and run RMS ETL, install RETL version 12.0 or later, which is required to run RMS ETL. Run the verify_retl script (included as part of the RETL installation) to ensure that RETL is working properly before proceeding.

RETL Users and Permissions

A UNIX user should be created for the installation and execution of the RMS RETL modules:

- This user must own a home directory in which the RMS RETL tar file will be extracted.
- The RMS RETL user must have permissions to locate and execute the RETL tool executable.
- The RMS RETL user must also have permissions to create directories and files, and to delete, write to, and execute files in the RMS RETL file structure.

An existing UNIX user can be used, as long as these criteria are met.

To run the RMS RETL modules, an RMS RETL-specific database user should be created. This database user must have the permissions to connect to the RMS database through SQL*Plus, drop tables, create tables, analyze tables, update, and insert into tables. An existing RMS database user can be used, as long as these criteria are met.

RMS RETL Installation

Log in to the UNIX server from which the RMS RETL extractions will be run. The RMS RETL modules should be installed on the same UNIX server that hosts the RMS database. Use FTP to copy the RMS RETL tar file into the directory structure where the RMS RETL modules will be permanently stored (the home directory of the RMS RETL UNIX user). Uncompress and extract the tar file as the RMS RETL user. The resulting directory structure is as follows:

```
<base_directory>/data/
           /error/
           /install/
           /log/
           /rfx/bookmark
           /rfx/etc/
           /rfx/include/
           /rfx/lib/
           /rfx/schema/
           /rfx/src/
```

After the RMS RETL tar file has been uncompressed and extracted, ensure that all files and directories have the required permissions for the RMS RETL user (see the RETL users and permissions section).

B

Appendix: Data Warehouse Interface (DWI) UNIX Environment Setup

The Retail Merchandising System (RMS) Extracts (for RDW) is a module released with RMS 12.x that allows RMS to interface with Oracle Retail Data Warehouse (RDW). The interface extracts must be installed on the same server and in the same database as RMS.

This code also contains code for the RPM and ReIM interface to RDW. More information on setting up dwi_config.env is in the RMS 12.0 Operations Guide, Volume 3.

To configure RETL, follow these steps:

1. Change directories to INSTALL_DIR/rfx/etc.
2. Modify the dwi_config.env script to match your environment:
   a. Change the DBNAME variable to the name of RMS database.
   b. Change the RPM_OWNER and RIM_OWNER variables to the username of the RPM table owner and ReIM table owner.
   c. Verify the DB_ENV variable is set to ORA.
   d. Change the RMS_OWNER variable to the username of the RMS table owner.
   e. Change the BA_OWNER variable to the username of the RMS batch user.
   f. Change the LOAD_TYPE to direct or conventional based on the requirements for SQL Loading.
   g. Change the LANGUAGE variable to the appropriate two-letter language code for your environment. For an English installation, the LANGUAGE variable should be set to `'en'`.