Oracle® Retail Merchandising System

Installation Guide
Release 10.1.22

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ORACLE

Oracle® Retail Merchandising System Installation Guide, Release 10.1.22

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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 10.1.22 documentation set:

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

Review Patch Documentation

For a base release (".0" release, such as 13.0), 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 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

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 5.3
Database Server	Oracle Database 10g Release 2 Enterprise Edition (minimum 10.2.0.3 patchset required) with the following patches and components: Patches: ▪ 4516865 (WRONG PERMISSIONS AFTER INSTALLATION IN OH AND SUBSEQUENT DIRECTORIES) 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

The following change should be made on your database server:

1. Go to the $ORACLE_HOME/dbs/initpfile.ora and append the pfile with the following parameter:
   `_allow_level_without_connect_by=true`

Check Application Server Requirements

General requirements for an application server capable of running RMS 10.1.22 include:

Supported on:	Versions Supported:
Application Server OS	OS certified with Oracle Application Server Forms and Reports 10g version 10.1.2.2.0. Options are: ▪ AIX 5.3
Application Server	Oracle Application Server Forms and Reports 10g version 10.1.2.2

The following change should be made on your application server

1. Add the following Tag in the basejini.htm file found in the "%ORACLE_HOME%\forms<xx>]\server" folder.

   ```
   <PARAM NAME = "mapFonts" VALUE = "yes" >
   ```

   Note: The above-mentioned tag (mapFonts) is applicable only for Oracle Application Server Forms and Reports 10g version 10.1.2.2.0 (AIX5.3)

Check Web Browser and Client Requirements

General requirements for client running RMS include:

Requirement	Version
Operating system	Windows 2000 or XP
Display resolution	1024x768
Processor	Pentium processor (minimum 450 MHz)
Memory	minimum of 256 MB RAM
Jinitiator	1.3.1.26
Microsoft Internet Explorer	version 5.5, 6.0 and higher

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Database Installation Tasks

Before you apply the RMS 10.1.22 patch:

- Make a backup of all your objects and database schema.
- Check that RMS 10.1.21 is installed.
- Review the enclosed RMS 10.1.22 Patch Release Notes (rms-10122-rn.pdf).
- Review each of the enclosed defect documents.

> **Note:** The previous tech stack should work for this release. These install instruction refer to the new tech stack.

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 RMS10DEV as the Oracle owning schema.

Mount CD-ROM on the Database Server

1. Copy the rms10122dbpatch.zip file from the CD /dbserverunix directory to a newly created staging directory on your UNIX server.
2. Unzip the file by entering:
   ```
   unzip rms10122dbpatch.zip
   ```

Alter RMS Objects

Alter RMS Tables

> **Note:** RMS_TABLE_RPM_IEM_AUDR.trg and RMS_TABLE_RPM_ITL_AUDR.trg should be run if you have RPM installed.

1. Change directories to STAGING_AREA/dbcs.
2. Log into sqlplus as RMS10DEV and run the following command:
   ```
   SQL> @patch10122dbcs.sql
   ```
3. Check the log file patch10122dbcs.log for any errors.

Alter RMS Database Objects

1. Change directories to STAGING_AREA/db_objects.
2. Log into sqlplus as RMS10DEV and run the following command:
   ```
   SQL> @patch10122rms.sql
   ```
3. Check the log file patch10122rms.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 RMS10DEV 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

1. Change directories to STAGING_AREA/data.
2. Log into sqlplus as RMS10DEV and run the following command:
   `SQL> @patch10122ctl.sql`
3. Check the log file patch10122ctl.log for any errors.

Update RETL

1. Change directories to STAGING_AREA/retl/schema.
2. Copy all the files from this directory to INSTALL_DIR/retl/schema.
   `cp -R * INSTALL_DIR/retl/schema`
3. Change directories to STAGING_AREA/retl/src.
4. Copy all the files from this directory to INSTALL_DIR/retl/src.
   `cp -R * INSTALL_DIR/retl/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 10 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

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
   ```
4. Check the libdpnd.log file for errors
5. To make batch libraries, run this command:
   ```
   make –f retek.mk retek rms resa 2>&1 | tee libretek.log
   ```
6. Check the libretek.log file for errors
7. To install batch libraries, run this command:
   ```
   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. Change directories to INSTALL_DIR/rms/oracle/proc/src
3. To make dependencies, run the following command:
   ```
   make –f mts.mk rms-depend recs-depend rtm-depend resa-depend 2>&1 | tee
   srcdpnd.log
   ```
4. Check the srcdpnd.log file for errors
5. To make batch programs 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
   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
   ```
6. Check the srcall.log file for errors
7. To install batch programs, run the following command:
   ```
   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: Ensure the 'AIX Shared Library Bug Fix' is applied as provided in APPENDIX A.

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Application Server Installation Tasks

> **Note:** If you have modified any forms, reports, or toolset libraries, make a backup copy so that you can reapply any custom modifications.

Mount CD-ROM on the Database Server

1. Copy the rms10122apppatch.zip file from the CD /appserverunix directory to a newly created staging directory on your UNIX server.
2. Unzip the file by entering:
   `unzip rms10122apppatch.zip`

Set Environment Variables

> **Note:** ORACLE_HOME is the location where Oracle Application Server 10g (10.1.2.2) 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 (10.1.2.2) 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 10 schema.
     >
     > **Example:** /u00/oracle> sqlplus $UP

AIX

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

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 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 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.

RMS Reports Installation

1. Copy the reports library (rep25lib.pll) in the INSTALL_DIR/rms/reports/src directory to the INSTALL_DIR/rms/reports/bin directory.
2. Change directories to INSTALL_DIR/rms/reports/bin.
3. Run pll2plx10gr2_reports to compile rep25lib.pll.
4. Remove the newly created rep25lib.plx file.
5. Copy all reports (*.rdf files) in the INSTALL_DIR/rms/reports/src directory to the INSTALL_DIR/rms/reports/bin directory
6. 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 reports 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

7. Check to make sure that each .rdf file has a corresponding .rep file.
8. 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.

Configure Oracle Application Server 10g for RMS

Note: The proper Oracle Application Server 10g (10.1.2.2) components must be started in order to run Oracle Forms applications.

Note: ORACLE_HOME refers to the location where Oracle Application Server 10g (10.1.2.0.2) Forms and Reports Services is installed.

Note: Prior to modifying Oracle Application Server 10g (10.1.2.2) Forms and Reports Services files, a backup of original files should be made.

1. Make a copy of the file ORACLE_HOME/forms/server/default.env, and name it rms.env (for example).
2. Modify the new file rms.env by appending the location of the RMS toolset and forms modules to the FORMS_PATH variable setting, and by adding the NLS_DATE_FORMAT and NLS_LANG variables to the end of this file. Additionally, the variable FORMS_REJECT_GO_DISABLED_ITEM=FALSE must also be added to rms.env due to changes between Oracle Forms 6i and Oracle Forms 10g.

   Example:
   FORMS_PATH=/u00/rms/toolset/bin:/u00/rms/forms/bin:/u00/oracle/AS10GR2/forms

   NLS_DATE_FORMAT=DD-MON-RR

   NLS_LANG=AMERICAN_AMERICA.UTF8

   FORMS_REJECT_GO_DISABLED_ITEM=FALSE

3. A Reports Server needs to be running in order to access RMS 10 reports through the RMS 10 web environment; either the default reports server can be used, or a new reports server can be used.

   A default reports server was created and started during the Oracle Application Server 10g version 10.1.2.2 installation; at that time a 10g reports server entry was automatically made in ORACLE_HOME/network/admin/tnsnames.ora; the name of the default reports server is REP_<SERVER_NAME>.

   A new reports server can be created by running the script ORACLE_HOME/bin/rwserver.sh; all variables required for compiling 10g reports must be set, and there must be a 10g reports server entry in ORACLE_HOME/network/admin/tnsnames.ora prior to running rwserver.sh. In order to make a new 10g reports server entry in tnsnames.ora, make a copy of the default 10g reports server entry, changing the name and port (unused port on the server). rwserver.sh must be run specifying the 10g reports server entry in the tnsnames.ora file.

   Example (tnsnames.ora): REP_RMS10 =
   (ADDRESS = (PROTOCOL = tcp)(HOST = server)(PORT = 1951))

   Example: rwserver.sh server=REP_RMS10

Verify the following resulted from running rwserver.sh:

10g reports server process started for the reports server specified configuration file was created in ORACLE_HOME/reports/conf for the reports server specified (named REP_RMS10.conf)

> **Note:** Contact Oracle Support for problems with starting a 10g reports server. For disabling Single Sign On security with 10g reports, Oracle recommends removing the security tag from the REP_<SERVER_NAME>.conf file. Doing so can also solve problems with starting a 10g reports server.

4. Modify the file ORACLE_HOME/bin/reports.sh by appending the location of the RMS reports modules to the REPORTS_PATH variable setting.

   Example:
   REPORTS_PATH=/u00/rms/reports/bin:$ORACLE_HOM
   E/reports/templates:$ORACLE_HOME/reports/samples/
   demo:$ORACLE_HOME/reports/integ:$ORACLE_HOME/
   reports/printers

5. Make an entry in the file ORACLE_HOME/network/admin/tnsnames.ora for the Oracle 10g database that was created in Chapter2 (where the RMS 10 schema resides).
6. Log into sqlplus as the RMS 10 schema owner (RMS10DEV) and update the lang table so that WEBHELP_SERVER, REPORTS_SERVER, WEBREPORTS_SERVER, and APP_SERVER are correct:
   - WEBHELP_SERVER is the url http://<server>:<port> where <server> is the name or IP address of the server where Oracle AS 10g is installed and <port> is the "Listen" value in ORACLE_HOME/Apache/Apache/conf/httpd.conf
   - REPORTS_SERVER is the value of the reports server created in step 3 above
   - WEBREPORTS_SERVER is reports/rwservlet
   - APP_SERVER is the url http://<server>:<port>/ where <server> is the name or IP address of the server where Oracle AS 10g is installed and <port> is the "Listen" value in ORACLE_HOME/Apache/Apache/conf httpd.conf

   Example: SQL> update lang set
   WEBHELP_SERVER='http://server:7778' where lang=1;

   SQL> update lang set
   REPORTS_SERVER=REP_<SERVER_NAME> where
   lang=1;

   SQL> update lang set
   WEBREPORTS_SERVER='reports/rwservlet' where lang=1';

   SQL> update lang set APP_SERVER='http://server:7778/'
   where lang=1;

7. Modify the file formsweb.cfg located at ORACLE_HOME/forms/server. Create the RMS environment section at the end of this file. Brackets ([ ] in the example below) distinguish a separate environment in this file. Variables to be set in the RMS environment section of formsweb.cfg are: envfile (from step 2 above); width, height, and separateFrame applet parameters; and starting form for the RMS application.

Example: [rms]

envfile=rms.env

width=850

height=585

separateFrame=true

form=rtkstrt.fmx

Additional modifications are needed to ensure that RMS utilizes the Sun JRE plug-in installed on the client. Comment out the following lines in formsweb.cfg at the beginning of this file:

- baseHTMLjinitiator=basejini.htm
- baseHTMLjpi=basejpi.htm

Example: ## baseHTMLjinitiator=basejini.htm
baseHTMLjpi=basejpi.htm

Add the following lines after the "Single Sign-On OID configuration parameter" section of formsweb.cfg . This directs clients to use the latest version of the Sun Java Plug-in installed on their machine when accessing RMS. No update is needed if you are using a different minor version of the Java plug-in.

##
#########

added for Java 1.4.1+

Use this classid to allow users to use any 1.4.X plugin

jinit_classid=clsid:8AD9C840-044E-11D1-B3E9-00805F499D93

jinit_mimetype=application/x-java-applet;jpi-version=1.4.1_03

legacy_lifecycle=true

end Java plug-in additions

##
#############

8. Modify the file ORACLE_HOME/forms/java/oracle/forms/registry/Registry.dat by setting default.icons.iconpath to /web_gif/.

Example: default.icons.iconpath=/web_gif/

9. If NLS_LANG is NOT set in the ORACLE_HOME/forms/server/rms.env then copy the RMS keyboard-mapping file

INSTALL_DIR/sample_files/fmrweb.res to ORACLE_HOME/forms/admin/resource/US

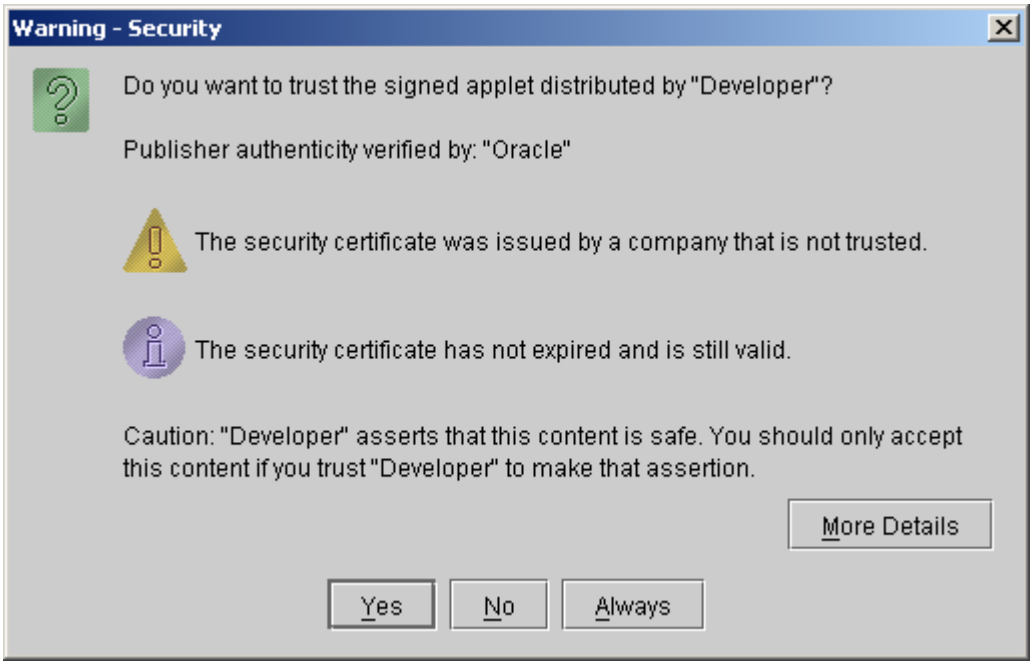
If NLS_LANG is set in the ORACLE_HOME/forms/server/rms.env file then copy the RMS keyboard-mapping file

INSTALL_DIR/sample_files/fmrweb_utf8.res to ORACLE_HOME/forms/admin/resource/US

10. Copy the sample file INSTALL_DIR/sample_files/rms10unix.conf to ORACLE_HOME/Apache/Apache/conf. rms10unix.conf contains the RMS-specific http listener settings that need to be added to the httpd configuration file that was generated during the installation of AS 10gR2
11. In rms10unix.conf, replace all occurrences of INSTALL_DIR with environment information. The four Apache listener aliases that need to be modified are: /java/help/, /web_gif/, /english/, and /temp/.
12. Add the contents of rms10unix.conf to the end of httpd.conf, or add an include directive in httpd.conf to rms10unix.conf.
13. Reload the Oracle HTTP Server through Oracle Enterprise Manager (OEM) for the new listener settings to take effect. The OEM URL was presented in the End of Installation window at the conclusion of the Oracle AS 10gR2 Forms and Reports Services installation. The default OEM URL should be http://server:1810.
14. 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.



15. On the RMS logon form, enter the appropriateUsername/Password@Connect String information in the corresponding fields:
    - Username = RMS Schema Owner or additional Oracle user created
    - Password = Username password
    - Connect String = Oracle database created in Ch. 1

    Example: Username: RMS10DEV
    Password: retek
    Connect String: prod_db1

A

Appendix A: AIX Shared Library Bug Fix

The env_rdbms.mk file for Oracle 10g has Bug #2143531. This bug was not fixed because there is a workaround. The following changes in **bold** need to be made to the $ORACLE_HOME/rdbms/lib/env_rdbms.mk file. Notice that changes are made in both the BUILD_WITH_CONTEXT and BUILD_WITH_NO_CONTEXT functions.

```
-----------------------------------------
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)

-----------------------------------------------
```