Oracle® Retail Merchandising System

Installation Guide
Release 9.0.22

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ORACLE

Oracle® Retail Merchandising System Installation Guide, Release 9.0.22

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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 9.0.22 documentation set:

- Oracle Retail Document Template Installation Guide
- Oracle Retail Document Template Release Notes
- Oracle Retail Document Template Operations Guide
- Oracle Retail Document Template Online Help

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

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.

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 Steps

Check Database Server Requirements

General requirements for a database server running RMS include:

- UNIX based OS certified with Oracle RDBMS 10g Enterprise Edition (AIX5.3)
- Oracle RDBMS 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

Check Application Server Requirements

General requirements for an application server capable of running RMS 9.0.22 include:

- UNIX based OS certified with Oracle Application Server Forms and Reports 10g version 10.1.2.2.0 (AIX5.3)
- 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:

- Jinitiator (Version: 1.3.1.26)
- Client PCs:
  – Windows 2000 or XP with Pentium processor
  – 1024x768 resolution
  – PC Configuration (minimum 256 MB RAM, 450 MHz)
  – Internet Explorer 5.5, 6.0 and higher

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Database Installation Tasks

Before you apply the RMS 9.0.22 patch:

- Make a backup of all your objects and database schema.
- Check that RMS 9.0.21 is installed.
- Review the enclosed RMS 9.0.22 Patch Release Notes (rms-9022-rn.pdf).

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 RMS9DEV as the Oracle owning schema.

Create Staging Directory for RMS 9.0.22 Database Files

1. Create a staging directory for the RMS 9 database installation software.
2. Copy the rms9022dbserver.zip file from the CD/dbserverunix directory to the staging directory. This will be referred to as STAGING_AREA when installing database software.
3. Change directories to STAGING_AREA and extract the rms9022dbserver.zip file.
4. The directory structure will look like this:

dbserverunix/	rms_10gr2/	utility/	Useful scripts
		example_10gr2_AIX53/	Example scripts

5. Now login as root/owner and change the permission of all the directories specified as above:

   ```
   chmod –R 755 *
   ```

Compile Invalid Objects

1. After database upgraded to 10g Release 2(10.2.0.3), compile all the invalid objects.

   ```
   sqlplus '/as sysdba'
   ```

   SQL> select owner, count (*) from dba_objects where status='INVALID'group by OWNER;

OWNER	COUNT(*)
PUBLIC	19
XDB	6
SYS	14
RMS9	683

OWNER	COUNT(*)
RMS9DEV	782

2. Run the following command:
   ```
   exec utl_recomp.recomp_parallel(8);
   ```
3. Once recompilation is done. Shutdown the database by using following command:
   ```
   SQL> shutdown immediate
   ```
4. Go to the $ORACLE_HOME/dbs/initpfile.ora and append the pfile with the following parameter:
   ```
   _allow_level_without_connect_by=true
   ```
5. Start the database:
   ```
   sqlplus '/as sysdba'
   SQL> startup
   ```

Recompile RMS Batch Libraries and Programs

Set Environment Variables

1. Make sure the following variables are set:

   Note: INSTALL_DIR is the location where RMS 9 was installed. Make sure the path for make, makedepend, and the compiler are in $PATH environment variable.

   - **MMHOME**=<INSTALL_DIR>/rms_10gr2
   - **MMUSER**=RMS Schema Owner
   - **PASSWORD**=RMS Schema Owner Password
   - **ORACLE_HOME**=Location of Oracle Database Server installed
   - **ORACLE_SID**=The Oracle Sid for the RMS database
   - **UP**= MMUSER/ PASSWORD@ ORACLE_SID

   AIX:

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

   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
   - **LD_LIBRARY_PATH**=$ORACLE_HOME/lib:${ORACLE_HOME}/network/jre11/lib/sparc/native_threads:${MMHOME}/oracle/lib/bin:$ORACLE_HOME/jdk/jre/lib/sparc/client:$ORACLE_HOME/jdk/jre/lib/sparc/server:$ORACLE_HOME/jdk/jre/lib/sparc:${LD_LIBRARY_PATH}; export LD_LIBRARY_PATH

Example Script:<INSTALL_DIR>/rms_10gr2/example_10gr2_AIX53/rms_10gdb.sh

```
INSTALL_DIR=/u03/retail_app/rms9/base/unpacked; export INSTALL_DIR
MMHOME=/u03/retail_app/rms9/base/unpacked/rms9_10g;export MMHOME
MMUSER=rms9;export MMUSER
PASSWORD=rms9;export PASSWORD
ORACLE_HOME=/u03/DB/product/10.2.0;export ORACLE_HOME
ORACLE_SID=retek9;export ORACLE_SID
LD_LIBRARY_PATH=$ORACLE_HOME/lib:${ORACLE_HOME}/network/jre11/lib/sparc/native
_threads:${MMHOME}/oracle/lib/bin:$ORACLE_HOME/jdk/jre/lib/sparc/client:$ORACL
E_HOME/jdk/jre/lib/sparc/server:$ORACLE_HOME/jdk/jre/lib/sparc:${LD_LIBRARY_PA
TH}; export LD_LIBRARY_PATH
UP=rms9/rms9@retek9; export UP
LINK_CNTRL=L_PTHREADS_D7 export LINK_CNTRL
LIBPATH=$ORACLE_HOME/lib32:$ORACLE_HOME/lib:$ORACLE_HOME/rdbms/lib32:$ORACLE_H
OME/rdbms/lib:$MMHOME/oracle/lib/bin:$LDPATH
OBJECT_MODE=64
```

> **Note:** Please ensure **'AIX Shared Library Bug Fix'** is applied as provided in APPENDIX A.

2. Compile the batch library and base RMS C programs as directed in the RMS 9.0 install guide.

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

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Application Server Software Installation Instructions

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

Create Staging Directory for RMS 9.0.22 Application Server Files

1. Create a staging directory for the RMS 9 database installation software.
2. Copy the rms9022appserver.zip file from the CD/appserverunix directory to the staging directory. This will be referred to as STAGING_AREA when installing database software.
3. Change directories to STAGING_AREA and extract the rms9022appserver.zip using following command:

   ```
   unzip rms9022appserver.zip
   ```

   The directory structure will look like this:

appserverunix/	rms_10gr2/	toolset/	src/	Toolset source code
			bin/	Toolset Executables
		forms/	src/	Forms source code
			bin/	Forms Executables
		example_10gr2_AIX53/		Example scripts
		web_html/	gif/	Gif files

4. Now login as root and change the permission of all these directories as chmod –R 755 *
5. Copy the RMS forms source code (*.fmb) located on UNIX in the STAGING_AREA/appserverunix/rms_10gr2/forms/src to your UNIX Web forms src directory.

Set Environment Variables

ORACLE_HOME is the location where Oracle Application Server 10g (10.1.2.2.0) 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 (10.1.2.2.0) has been installed.

   All OS Platforms:

   - **ORACLE_HOME**=<DIR>;export ORACLE_HOME
   - **ORACLE_SID**=<SID>;export ORACLE_SID
   - **MMHOME**=<INSTALL_DIR>/rms_10gr2;export MMHOME

- **MMUSER**=<RMS schema owner>;export MMUSER
- **PASSWORD**=<RMS schema password>;export PASSWORD
- **INSTALL_DIR**=<INSTALL_DIR> export INSTALL_DIR
  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**=$CLASSPATH
- **FORMS_PATH**=INSTALL_DIR/toolset/bin:INSTALL_DIR/rms_10gr2/forms/bin:$ORACLE_HOME/forms
- **REPORTS_PATH**=INSTALL_DIR/rms_10gr2/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 9022 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
- **TK_UNKNOWN**=<ORACLE_HOME>/guicommon/tk/admin export TK_UNKNOWN
- **TWO_TASK**=<SID>; export TWO_TASK
- **TNS_ADMIN**=$ORACLE_HOME/network/admin export TNS_ADMIN
- **ORAENV_ASK**=YES export ORAENV_ASK
- **NLS_DATE_FORMAT**='DD-MON-RR' export NLS_DATE_FORMAT
- **NLS_LANG**='AMERICAN' export NLS_LANG
- **TERM**=vt220; export TERM
- **ORACLE_TERM**=vt220 ; export ORACLE_TERM

Example Script: STAGING_AREA/rms_10gr2/example_10gr2_AIX53/rms_10gas.sh

```
INSTALL_DIR=/u03/retail_app/rms9/base/unpacked export INSTALL_DIR
MMHOME=/u03/retail_app/rms9/base/unpacked/rms9_10g;export MMHOME
MMUSER=rms9;export MMUSER
PASSWORD=rms9;export PASSWORD
ORACLE_HOME=/u03/OAS/10gasforms;export ORACLE_HOME
ORACLE_SID=retek9;export ORACLE_SID
```

```
LD_LIBRARY_PATH=/usr/X11R6/lib:/usr/lib:/lib:$ORACLE_HOME/lib:/u01/WEB/9.2.0/9
ias/JRE/lib/aix:/u01/WEB/9.2.0/9ias/JRE/lib/aix/native_threads:$ORACLE_HOME/ne
twork/jre11/lib/aix/native_threads:$MMHOME/oracle/lib/bin; export
LD_LIBRARY_PATH

PATH=$ORACLE_HOME/bin:$ORACLE_HOME/opmn/bin:$ORACLE_HOME/dcm/bin:/u03/retail_a
pp/rms9/base/unpacked/rms9_10g/forms10gr2_scripts:${PATH};export PATH

LIBPATH=$ORACLE_HOME/lib:/usr/X11R6/lib:$ORACLE_HOME/network/jre11/lib/aix/nat
ive_threads; $LDPATH

CLASSPATH=$ORACL_HOME/jlib/importer:$ORACLE_HOME/jlib/debugger.jar:$ORACLE_HOM
E/jlib/utj.jar:$ORACLE_HOME/jlib/ewt3.jar:$ORACLE_HOME/jlib/share.jar:$ORACLE_
HOME/dfc.jar:$ORACLE_HOME/jlib/help4.jar:$ORACLE_HOME/jlib/oracle_ice.jar:$ORA
CLE_HOME/jlib/jewt4.jar;export CLASSPATH

FORMS_BUILDER_CLASSPATH=$CLASSPATH;export FORMS_BUILDER_CLASSPATH

FORMS_PATH=/u03/retail_app/rms9/base/unpacked/toolset/bin:/u03/retail_app/rms9
/base/unpacked/rms9_10g/forms/bin:/u03/OAS/10gasforms/forms;export FORMS_PATH

REPORTS_PATH=/u03/retail_app/rms9/base/unpacked/rms9_10g/reports/bin:$ORACLE_H
OME/forms; export REPORTS_PATH

TK_UNKNOWN=/u03/OAS/10gasforms/guicommon/tk/admin export TK_UNKNOWN

TWO_TASK=retek9; export TWO_TASK

UP=rms9/rms9@retek9; export UP

TNS_ADMIN=$ORACLE_HOME/network/admin export TNS_ADMIN

ORAENV_ASK=YES export ORAENV_ASK

NLS_DATE_FORMAT='DD-MON-RR' export NLS_DATE_FORMAT

NLS_LANG='AMERICAN' export NLS_LANG

TERM=vt220; export TERM
ORACLE_TERM=vt220 ; export ORACLE_TERM
```

Compile Toolset Libraries (*.pll)

1. Copy all the files from STAGING_AREA/rms_10gr2/toolset/src to INSTALL_DIR/toolset/src.
2. Copy all libraries (.pll files) and pll2plx10gr2_toolset script in the INSTALL_DIR/toolset/src directory to the INSTALL_DIR/toolset/bin directory.
3. Change directories to INSTALL_DIR/toolset/bin.
4. Run pll2plx10gr2_toolset to compile all Toolset .pll's.

   The libraries are compiled in the following order:

   - messge40.pll
   - ariiflib.pll
   - stand40.pll
   - calend40.pll
   - find40.pll
   - item40.pll

- tools40.pll
- mblock40.pll
- mview40.pll
- nav40.pll
- work40.pll

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.

Compile Toolset Reference Forms (fm_*.fmb)

1. Move all of the reference forms (fm_*.fmb files) and fmb2fmx10gr2_fm script in <INSTALL_DIR>/toolset/src directory to the <INSTALL_DIR>/toolset/bin directory.
2. Run fmb2fmx10gr2_fm (in INSTALL_DIR/toolset/bin) to compile the Toolset reference forms.
3. Remove all newly created fm_*.fmx files (reference forms should not have executable files).

Compile Toolset Forms (*.fmb)

1. Run fmb2fmx10gr2 (in INSTALL_DIR/toolset/src) to generate Toolset runtime forms – .fmx's.
2. Check to make sure each .fmb file has a corresponding .fmx file. All resulting *.fmx files need to be moved to <INSTALL_DIR>/toolset/bin directory.

   ```
   mv  *.fmx ../bin
   ```

Compile Toolset Menus (*.mmb)

1. Run mmb2mmx10gr2 (in INSTALL_DIR/toolset/src) to generate Toolset runtime menus – .mmx's.
2. Each .mmb file should have a corresponding .mmx file. All resulting .mmx files need to be copied to <INSTALL_DIR>/toolset/bin directory.

   ```
   mv *.mmx ../bin
   ```

Compile RMS Forms Libraries. (*.pll)

1. Copy all the files from STAGING_AREA/ rms_10gr2/forms/src to INSTALL_DIR/forms/src.
2. Copy all libraries (.pll files) and pll2plx10gr2_forms in the INSTALL_DIR/forms/src directory to the INSTALL_DIR/forms/bin directory.
3. Run pll2plx10gr2_forms (in INSTALL_DIR/forms/bin) to compile the RMS .pll's.
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.

Compile RMS Reference Forms (fm_*.fmb)

1. Move all of the reference forms (fm_*.fmb files) and script fmb2fmx10gr2_f in <INSTALL_DIR>/forms/src directory to the <INSTALL_DIR>/forms/bin directory.
2. Run fmb2fmx10gr2_fm (in INSTALL_DIR/forms/bin) to compile the RMS reference forms.

3. Remove all newly created fm_*.fmx files (reference forms should not have executable files).

Compile RMS 9 Forms (*.fmb)

1. Run fmb2fmx10gr2 (in INSTALL_DIR/forms/src) to generate RMS runtime forms – .fmx's.
2. Check to make sure each .fmb file has a corresponding .fmx file. All resulting *.fmx files need to be moved to <INSTALL_DIR>/forms/bin directory.

   ```
   mv  *.fmx ../bin
   ```

Compile RMS Forms Menus (*.mmb)

1. Run mmb2mmx10gr2 (in INSTALL_DIR/forms/src) to generate RMS runtime menus – .mmx's.
2. Each .mmb file should have a corresponding .mmx file. All resulting .mmx files need to be copied to <INSTALL_DIR>/forms/bin directory.

   ```
   mv *.mmx ../bin
   ```

Compile RMS Reports Libraries. (*.pll)

1. Copy all the files from STAGING_AREA/reports/src to INSTALL_DIR/reports/src.
2. Copy all libraries (.pll files) in the INSTALL_DIR/reports/src directory to the INSTALL_DIR/reports/bin directory.
3. Run pll2plx10gr2_reports (in INSTALL_DIR/reports/bin) to compile the RMS Reports .pll's.
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.

Compile Reports (*.rdf)

1. Run rdf2rep10gr2 (in <INSTALL_DIR>/reports/src) to generate RMS runtime reports – .rep's.
2. Each .rdf file should have a corresponding .rep file. All resulting .rep files need to be copied to <INSTALL_DIR>/forms/bin directory.

   ```
   mv *.rep ../bin
   ```

Copy Image File

Move retek.gif file in STAGING_AREA/web_html/gif directory to the <INSTALL_DIR>/web_html/gif directory.

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Configure Oracle Application Server 10g for RMS 9.0.22

ORACLE_HOME refers to the location where Oracle Application Server 10g (10.1.2.2.0) Forms and Reports Services is installed.

> **Note:** The proper Oracle Application Server 10g (10.1.2.2.0) components must be started in order to run Oracle Forms applications.
>
> Prior to modifying Oracle Application Server 10g (10.1.2.2.0) 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 as 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:

   ```
   STAGING_AREA /rms_10gr2/example_10gr2_AIX53/rms9.env
   ```

   Append the following parameters in rms.env:

   - FORMS_PATH=<INSTALL_DIR>/toolset/bin:<INSTALL_DIR>/forms/bin:<INSTALL_DIR>/forms
   - NLS_DATE_FORMAT=DD-MON-RR
   - LDR_CNTRL=MAXDATA=0x80000000
   - NLS_LANG=AMERICAN_AMERICA.UTF8
   - FORMS_REJECT_GO_DISABLED_ITEM=FALSE
   - ORACLE_RMS_REPORTS_HOST=http://server: 7778
   - ORACLE_RMS_REPORTS_SERVER= REP_<SERVER_NAME>
   - ORACLE_RMS_RWSERVER=reports/rwservlet
3. A reports Server needs to be running in order to access RMS 9 reports through the RMS 9 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 10.1.2.2.0 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 (un-used port on the

server). rwserver.sh must be run specifying the 10g reports server entry in the tnsnames.ora file.

Example (tnsnames.ora)

```
REP_RMS9 = (ADDRESS = (PROTOCOL = tcp)(HOST = server)(PORT= 1951))
```

Example to create report server:

```
rwserver.sh server=REP_RMS9
```

4. Verify the following result from running rwserver.sh:

   10g reports server process started for the reports server specified configuration file is created in ORACLE_HOME/reports/conf for the reports server specified (named REP_RMS9.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.

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

   Example: STAGING_AREA /rms_10gr2/example_10gr2_AIX53/reports.sh

```
DISPLAY=localhost:<port>; export DISPLAY

LDR_CNTRL=MAXDATA=0x80000000; export LDR_CNTRL

REPORTS_PATH=<INSTALL_DIR>/reports/bin:$ORACLE_HOME/reports/templates:$ORACLE_
HOME/reports/samples/demo:$ORACLE_HOME/reports/integ:$ORACLE_HOME/reports/prin
ters:${REPORTS_PATH}; export REPORTS_PATH

REPORTS_DEFAULT_DISPLAY=NO; export REPORTS_DEFAULT_DISPLAY
```

6. Make an entry in the file ORACLE_HOME/network/admin/tnsnames.ora for the Oracle 10g database (where the RMS 9 schema resides). Following example for a proper entry in file ORACLE_HOME/network/admin/tnsnames.ora.

   Example: STAGING_AREA/rms_10gr2/example_10gr2_AIX53/tnsnames.ora

```
REP_MSPDV102_OUIHOME1 =
  (ADDRESS = (PROTOCOL = tcp)(HOST = mspdvxxx)(PORT = 1950))

EXTPROC_CONNECTION_DATA =
  (DESCRIPTION =
    (ADDRESS_LIST =
      (ADDRESS = (PROTOCOL = TCP)(HOST = mspdvxxx.us.oracle.com)(PORT = 1521))
    )
    (CONNECT_DATA =
      (SERVICE_NAME = PLSExtProc)
    )
  )

RETEK9 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = mspdvxxx.us.oracle.com)(PORT = 1531))
    (CONNECT_DATA =(SID = retek9))
  )

EXTPROC_CONNECTION_DATA =
  (DESCRIPTION =
      (ADDRESS = (PROTOCOL = IPC)(KEY = extproc_key))
    (CONNECT_DATA =(SID = extproc_agent))
```

```
  )

VIS =
        (DESCRIPTION =
                (ADDRESS = (PROTOCOL = tcp)(HOST =
mspdevxx.us.oracle.com)(PORT = 1536))
            (CONNECT_DATA = (SID = VIS))
        )
```

7. Log into sqlplus as the RMS 9 schema owner (RMS9) and update the lang table so that WEBHELP_SERVER, REPORTS_SERVER, and WEBREPORTS_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

   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';
   ```

8. 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: STAGING_AREA/rms_10gr2/example_10gr2_AIX53/formsweb.cfg

   ```
   [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 will direct 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;jpiversion=
   1.4.1_03
   legacy_lifecycle=true
   ## end Java plug-in additions
   ##################################################
   ```

```
##################
```

9. 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/
   ```

10. Create a file named rms9.conf at location ORACLE_HOME/Apache/Apache/conf/rms9.conf. rms9.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 rms9.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/.

    Example: STAGING_AREA /rms_10gr2/example_10gr2_AIX53/rms9.conf

    ```
    ## Begin Retek Specific Parameters
    Alias /java/help/  "<INSTALL_DIR>/web_html/help/"

    #PerlRequire
    <Location /java/help>
        SetHandler  perl-script
        PerlHandler Apache::Registry
        AddHandler perl-script .pl
        Options +ExecCGI
        PerlSendHeader On
    </Location>

    Alias   /web_gif/    "<INSTALL_DIR>/web_html/gif/"
    Alias   /english/    "<INSTALL_DIR>/web_html/helpfiles/english/"
    Alias   /temp/       "<INSTALL_DIR>/web_html/temp/"
    ```

12. Add the contents of rms9.conf to the end of httpd.conf, or add an include directive in httpd.conf to rms9unix.conf.

    Example: STAGING_AREA/rms_10gr2/example_10gr2_AIX53/httpd.conf

    ```
    include "<ORACLE_HOME>/Apache/Apache/conf/rms9.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.

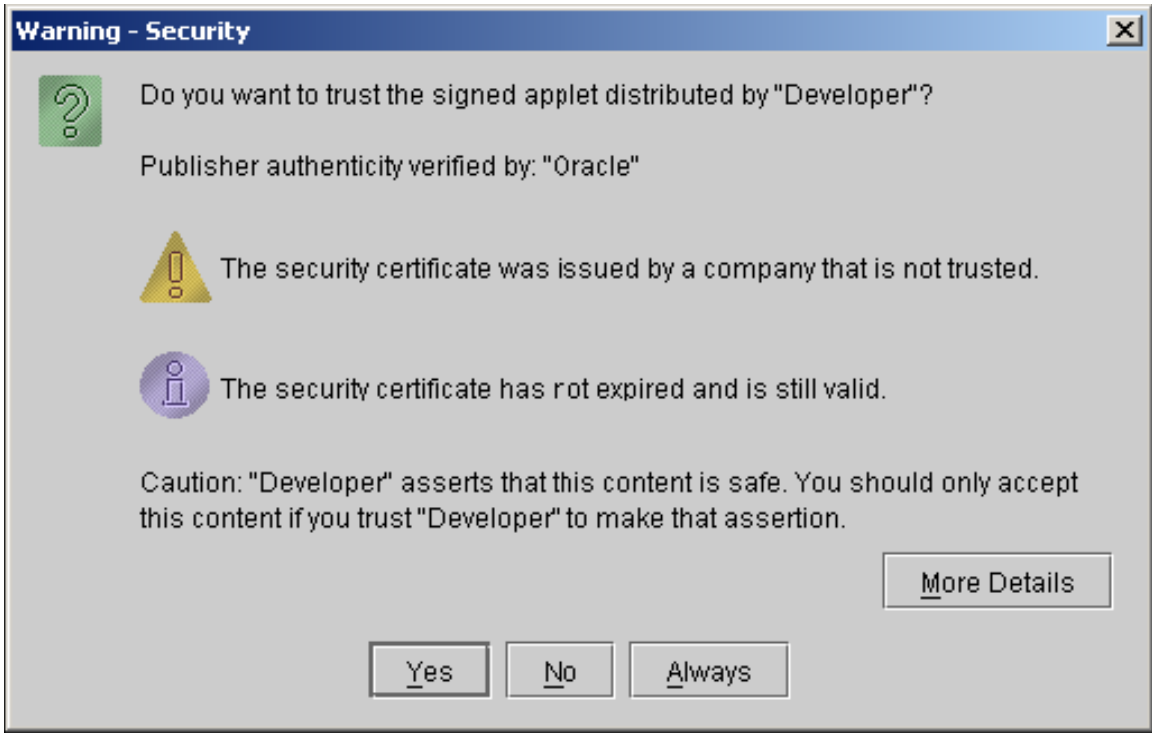
14. Load RMS in Forms 10gR2 mode by entering the following url in a browser. Prior to testing, the Sun Jinitiator 1.3.1+ needs to be installed on the client machine. The Jinititor can be downloaded from http://java.sun.com/.

    - 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 8 above).

    Example:

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

15. The first time RMS is accessed, the user is prompted with a security warning. Click Always.


Warning - Security
Do you want to trust the signed applet distributed by "Developer"?
Publisher authenticity verified by: "Oracle"
The security certificate was issued by a company that is not trusted.
The security certificate has not expired and is still valid.
Caution: "Developer" asserts that this content is safe. You should only accept this content if you trust "Developer" to make that assertion.
More Details
Yes
No
Always

A

Appendix: 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.

> **Note:** 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)
-------------------------------------------
```