

Oracle® Retail Warehouse Management System
Installation Guide
Release 13.1.8
E49537-02

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Oracle Retail Warehouse Management System, Installation Guide, Release 13.1.8

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Your feedback is important, and helps us to best meet your needs as a user of our products. For example:

- Are the implementation steps correct and complete?
- Did you understand the context of the procedures?
- Did you find any errors in the information?
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- Do you need different information or graphics? If so, where, and in what format?
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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 Warehouse Management System Release 13.1.8 documentation set:

- *Oracle Retail Warehouse Management System Release Notes*

Customer Support

To contact Oracle Customer Support, access My Oracle Support at the following URL:

<https://support.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

When you install the application for the first time, you install either a base release (for example, 13.1) or a later patch release (for example, 13.1.8). If you are installing the base release or additional patch releases, read the documentation for all releases that have occurred since the base release before you begin installation. Documentation for patch releases can contain critical information related to the base release, as well as information about code changes since the base release.

Improved Process for Oracle Retail Documentation Corrections

To more quickly address critical corrections to Oracle Retail documentation content, Oracle Retail documentation may be republished whenever a critical correction is needed. For critical corrections, the republication of an Oracle Retail document may at times **not** be attached to a numbered software release; instead, the Oracle Retail document will simply be replaced on the Oracle Technology Network Web site, or, in the case of Data Models, to the applicable My Oracle Support Documentation container where they reside.

This process will prevent delays in making critical corrections available to customers. For the customer, it means that before you begin installation, you must verify that you have the most recent version of the Oracle Retail documentation set. Oracle Retail documentation is available on the Oracle Technology Network at the following URL:

<http://www.oracle.com/technetwork/documentation/oracle-retail-100266.html>

An updated version of the applicable Oracle Retail document is indicated by Oracle part number, as well as print date (month and year). An updated version uses the same part number, with a higher-numbered suffix. For example, part number E123456-02 is an updated version of a document with part number E123456-01.

If a more recent version of a document is available, that version supersedes all previous versions.

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Documentation is packaged with each Oracle Retail product release. Oracle Retail product documentation is also available on the following Web site:

<http://www.oracle.com/technetwork/documentation/oracle-retail-100266.html>

(Data Model documents are not available through Oracle Technology Network. These documents are packaged with released code, or you can obtain them through My Oracle Support.)

Documentation should be available on this Web site within a month after a product release.

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.”

This is a code sample

It is used to display examples of code

Preinstallation Tasks

This chapter describes the tasks that must be completed prior to installation.

Check Supported Database Server Requirements

General Requirements for a database server running RWMS include:

Supported on:	Versions Supported:
Database Server OS	OS certified with Oracle Database 11gR1 and 11gR2 Enterprise Edition. Options are: <ul style="list-style-type: none">▪ Oracle Linux 5 for x86-64 (Actual hardware or Oracle virtual machine).▪ Red Hat Enterprise Linux 5 for x86-64 (Actual hardware or Oracle virtual machine).▪ AIX 6.1, minimum TL1 (Actual hardware or LPARs)▪ Solaris 10 Sparc (Actual hardware or Oracle VM Server for SPARC).▪ HP-UX 11.31 Integrity (Actual hardware or HPVM)

Supported on:	Versions Supported:
Database Server 11gR1	<p>Oracle Database Enterprise Edition 11gR1 with the following patches:</p> <ul style="list-style-type: none"> ▪ 6890831 – 11.1.0.7 patchset. <p>Oneoffs:</p> <ul style="list-style-type: none"> ▪ 7036284 (LOADJAVA RUN IN A DV ENVIRONMENT CANNOT LOAD CLASSES WITH A NAME LONGER THAN 128) ▪ 7378322 (ORA-00600: internal error code, arguments: [6704], [1], [532241], [532237]) ▪ 6800649 – (AIX only) when non-oracle user uses client utilities sqlldr/sqlplus/impdp/expdp, core dump is generated. Need to “relink all” after applying the patch ▪ 7697360 (RAC only) ORA-00600: internal error code, arguments: [k2vcbk_6], Database crashed during transaction recovery. ▪ 9969679 MERGE REQUEST ON TOP OF 11.1.0.7.0 FOR BUGS 8596022 9582272 <p>Components:</p> <ul style="list-style-type: none"> ▪ Oracle Database 11g ▪ Oracle Partitioning ▪ Oracle Net Services ▪ Oracle Call Interface (OCI) ▪ Oracle Programmer ▪ Oracle XML Development Kit ▪ Examples CD <p>Other components:</p> <ul style="list-style-type: none"> ▪ Perl 5.0 or later ▪ X-Windows interface
Database Server 11gR2	<p>Oracle Database 11g Release 2 (11.2.0.3) Enterprise Edition with the following oneoff patches:</p> <ul style="list-style-type: none"> ▪ 13036331: ORA-01031 INSUFFICIENT PRIVILEGES WHEN RE-GRANTING EXECUTE ON DBMS PACKAGES. <p>Components:</p> <ul style="list-style-type: none"> ▪ Oracle Partitioning ▪ Examples CD <p>Other components:</p> <ul style="list-style-type: none"> ▪ Perl 5.0 or later ▪ X-Windows interface

Verify Single Sign-On

If a Single Sign-On is to be used, verify the Oracle Infrastructure Server 10g server has been installed. Verify that the mid-tier server hosting Oracle Forms is registered with the Infrastructure Oracle Internet Directory.

Check Supported Application Server Requirements

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

Supported on:	Versions Supported:
Application Server OS	OS certified with Oracle Application Server 10g version 10.1.2.3. Options are: <ul style="list-style-type: none"> ▪ Oracle Linux 5 for x86-64 (Actual hardware or Oracle virtual machine). ▪ Red Hat Enterprise Linux 5 for x86-64 (Actual hardware or Oracle virtual machine). ▪ AIX 6.1, minimum TL1 (Actual hardware or LPARs) ▪ Solaris 10 Sparc (Actual hardware or Oracle VM Server for SPARC). ▪ HP-UX 11.31 Integrity (Actual hardware or HPVM)
Application Server	Oracle Application Server Forms and Reports 10g version 10.1.2.3 Patches: <ul style="list-style-type: none"> ▪ 7379122 MLR ON TOP OF 10.1.2.3 FOR CPUOCT2008

Note: If installing on HP, see the My Oracle Support document, "Trying to Execute a Stored Program Unit with a Type as Parameter" (ID 367577.1).

Check Web Browser and Client Requirements

General requirements for client running RWMS include:

Requirement	Version
Operating system	Windows 2000 or XP
Display resolution	1024x768
Processor	Pentium processor (minimum 450 MHz)
Memory	minimum of 256 MB RAM
Java	Oracle JRE Plug-in 5.0 Update 11 (1.5.0_11) or 6.0 Update 37 or higher (1.6.0_37+)
Browser	Microsoft Internet Explorer version 8.x or 9.x Mozilla Firefox ESR 17+

Handheld Requirements

Windows CE 5.0 handhelds with the following screen sizes

- Hand held: 240 x 320
- Wrist mount: 320 x 240
- Truck mount – full screen: 800 x 600
- Truck mount – half screen: 800 x 320

Software Required on Handhelds

- Remote Desktop Client (aka Microsoft Terminal Services Client)
- DataWedge (software provided by and maintained by Motorola for use with the barcode scanners)

Supported Oracle Retail Products

Requirement	Version
Oracle Retail Merchandising System (RMS)	13.1.8
SIM	13.1.8

Patch RWMS Database Installation

This section describes how to update the RWMS database schema to release 13.1.8. It is assumed that your existing RWMS database schema is on at least release 13.1.5.

Note: Shut down any applications that may be using the RWMS schema (for example RIB) before applying a schema patch.

Note: If you are installing multiple patches, you must run the database schema patch installer separately for each patch. For example, if upgrading from 13.1.5 to 13.1.8, the installer should first be run to install the 13.1.5.1 scripts, followed by 13.1.6, 13.1.7, and 13.1.8.

Patch RWMS Database using the Patch Installer

The RWMS 13.1.8 database schema patch installer should be used to apply the RWMS patch.

Before you apply the RWMS 13.1.8 patch:

- Make a backup of all your objects and database schema.
- Determine which patches and hot fix bundles have already been installed.
- Review the enclosed RWMS 13.1.8 Release Notes (rwms-1318-rn.pdf).
- Review each of the enclosed defect documents.
- Make sure any applications that connect to the RWMS schema are shut down. This includes RIB and anything else that could be using the schema.

Create Staging Directory for RWMS Database Schema Files

To create a staging directory for RWMS database schema files, complete the following steps.

1. Log in to the database server as a user that can connect to the RWMS database.
2. Create a staging directory for the RWMS 13.1.8 Patch. There should be a minimum of 65 MB disk space available in this location.
3. Copy the rwms1318dbpatch.zip file from the RWMS 13.1.8 release to the staging directory. This is referred to as DB_PATCH_DIR when patching a database schema.
4. Change directories to DB_PATCH_DIR and extract the rwms1318dbpatch.zip file. This creates a RWMS/dbschemapatch subdirectory under DB_PATCH_DIR.

Run the RWMS Database Schema Patch Installer

Note: See “[Appendix: RWMS Database Patch Installer Screens](#)” for details about screens and fields in the RWMS database schema patch installer.

1. Change directories to DB_PATCH_DIR/rwms/dbschemapatch.
2. Source the oraenv script to set up the Oracle environment variables (such as ORACLE_HOME, ORACLE_SID, PATH).

```
Example: prompt$ . oraenv
          ORACLE_SID = [] ? mydb
          prompt$
```

Verify the ORACLE_HOME and ORACLE_SID variables after running this script.

```
Example: prompt$ echo $ORACLE_HOME
          /u00/oracle/product/mydbversion
          prompt$ echo $ORACLE_SID
          mydb
```

3. Set and export the following environment variables. These variables are needed in addition to the environment variables set by the oraenv script above.

Variable	Description	Example
NLS_LANG	Locale setting for Oracle database client	NLS_LANG=AMERICAN_AMERICA.UTF8 export NLS_LANG
DISPLAY	Address and port of X server on desktop system of user running install. Optional for dbschema installer	DISPLAY=<IP address>:0 export DISPLAY

4. If you are going to run the installer in GUI mode using an X server, you need to have the XTEST extension enabled. This setting is not always enabled by default in your X server. See “[Appendix: Common Installation Errors](#)” for details.
5. Run the install.sh script to start the installer.

Note: Below are the usage details for install.sh. The typical usage for GUI mode is no arguments.

```
install.sh [text | silent] or ./install.sh [text | silent]
```

6. On the Apply a Patch page, provide the path to the corresponding patch you are applying. This path will be DB_PATCH_DIR/rwms/dbschemapatch/rwms-dbpatch/<version>/.

Note: If you have 13.1.5 installed, then select the 13.1.5.1 patch. Once the 13.1.5.1 patch has been applied, rerun the installer and select the 13.1.6, and 13.1.7 patches. If you have 13.1.6 installed, then just select the 13.1.7 patch.

7. After the installation has completed, you can check its log file: `rwms-install-dbschema.<timestamp>.log`.
8. The installer leaves behind the `ant.install.properties` file for future reference and repeat installations. This file contains inputs you provided. As a security precaution, make sure that the file has restrictive permissions.

Example: `chmod 600 ant.install.properties`

9. If you are applying multiple patches (for example, if you are going from 13.1.5 to 13.1.8), rerun the installer. On the Apply a Patch page, select the next patch in the sequence. Repeat this step until you have installed all required patches for the desired patch level.

Note: For more information, see "[Optional Security](#)."

Patch RWMS Application Installation

Note: STAGING_DIR is the directory where the RWMS files are extracted from its zip file. INSTALL_DIR is where the application will be run from. INSTALL_DIR should contain the folders forms_scripts and rwms.

It is assumed that Oracle Application Server 10g version 10.1.2.3 (OAS) has already been installed. If not, refer to “[Check Supported Application Server Requirements](#)” in Chapter 1, “[Preinstallation Tasks](#),” before proceeding.

Copy from CD Directory

To copy from the CD directory, do the following.

1. Copy the rwms1318apppatch.zip file from the CDROM/appserverunix directory to a newly created staging directory on your UNIX server. This will be referred to as STAGING_DIR. There should be a minimum of 26 MB disk space available in this location.
2. Unzip the file using the following command:

```
unzip rwms1318apppatch.zip
```

Compile RWMS Oracle Forms and Reports

To compile RWMS Oracle forms and reports, complete the following tasks.

Set Environment Variables

Note: ORACLE_HOME is the location where Oracle Application Server 10g (10.1.2.3) has been installed.

1. Verify that the Tk2Motif.rgb file that is sent out with Oracle Application Server 10g (10.1.2.3) has been modified. It is located at the following location:

```
$ORACLE_HOME/guicommon/tk/admin
```


Confirm that file ORACLE_HOME/guicommon/tk/admin/Tk2Motif.rgb contains the line: Tk2Motif*fontMapCs: iso8859-2=UTF8
If not, please make a copy of the file ORACLE_HOME/guicommon/tk/admin/Tk2Motif.rgb, and name it Tk2Motif.rgb_ORIG (for example). Modify the file Tk2Motif.rgb file so that it contains the following line:

```
Tk2Motif*fontMapCs: iso8859-2=UTF8
```
2. Log into the application server as a user with read and write access to the Oracle Application Server files.
3. Set the DISPLAY variable to the IP address of the application server, plus “:0.0” (for example, 10.1.1.1:0.0).

4. Set the following variables:

All OS Platforms (Please replace the `INSTALL_DIR` with the actual path of `INSTALL_DIR` for installation):

- `PATH=$ORACLE_HOME/bin:$ORACLE_HOME/opmn/bin:$ORACLE_HOME/dcm/bin:<INSTALL_DIR>/forms_scripts:$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>/rwms/forms/bin:$ORACLE_HOME/forms`
- `REPORTS_PATH=<INSTALL_DIR>/rwms/reports/bin:$ORACLE_HOME/forms`
- `TK_UNKNOWN=$ORACLE_HOME/guicommon/tk/admin`
- `UP=<RWMS schema owner>/<RWMS schema password>@<RWMS database>`

Install RWMS Forms

To install RWMS forms, do the following.

1. Make a backup copy of the `<INSTALL_DIR>/rwms/forms` directory.
2. For the version number of the patch or hotfix bundle you are installing, navigate to the corresponding directories in `<STAGING_DIR>` and copy the contents of the following directories into `<INSTALL_DIR>`. Depending on the patch, these directories may not exist.
 - Copy all forms (fmb) in `<STAGING_DIR>/app-patch/<version>/forms/src` to the `INSTALL_DIR/rwms/forms/src` directory.
 - Copy all scripts in `<STAGING_DIR>/app-patch/<version>/forms/bin` to the `<INSTALL_DIR>/rwms/forms/bin` directory.

If you are applying multiple patches (for example, if you are going from 13.1.5 to 13.1.8), you must copy the files from the directories for each patch in sequence. For example, if you are going from 13.1.5 to 13.1.8, you will need to copy the files from `STAGING_DIR/app-patch/13.1.5.1/forms`, followed by the files from the 13.1.6, 13.1.7, and 13.1.8 directories.

2. Navigate to the directory `<INSTALL_DIR>/rwms/forms/src`
3. Run `forms.fmb.sh` (located in `<INSTALL_DIR>/forms_scripts`) to generate RWMS runtime forms – `.fmx`'s.
4. Make sure that each form `.fmb` file has a corresponding `.fmx` file.
5. Copy all newly generated `fmx` files in the `<INSTALL_DIR>/rwms/forms/src` directory to the `<INSTALL_DIR>/rwms/forms/bin` directory.

Install RWMS Reports (*.rdf)

1. Copy all *.rdf files located in <STAGING_DIR>/app-patch/<version>/reports to <INSTALL_DIR>/rwms/reports/src directory.
2. Copy all *.rdf files located in <INSTALL_DIR>/rwms/reports/src to <INSTALL_DIR>/rwms/reports/bin directory.

Note: The .rdf files in /bin must be overwritten with those from /src.

3. Copy label.prt from <INSTALL_DIR>/rwms/reports/bin to <INSTALL_DIR>/rwms/extras.

Appendix: 11gR2 Parameter File

This parameter file can also be found at STAGING_DIR/create_db.

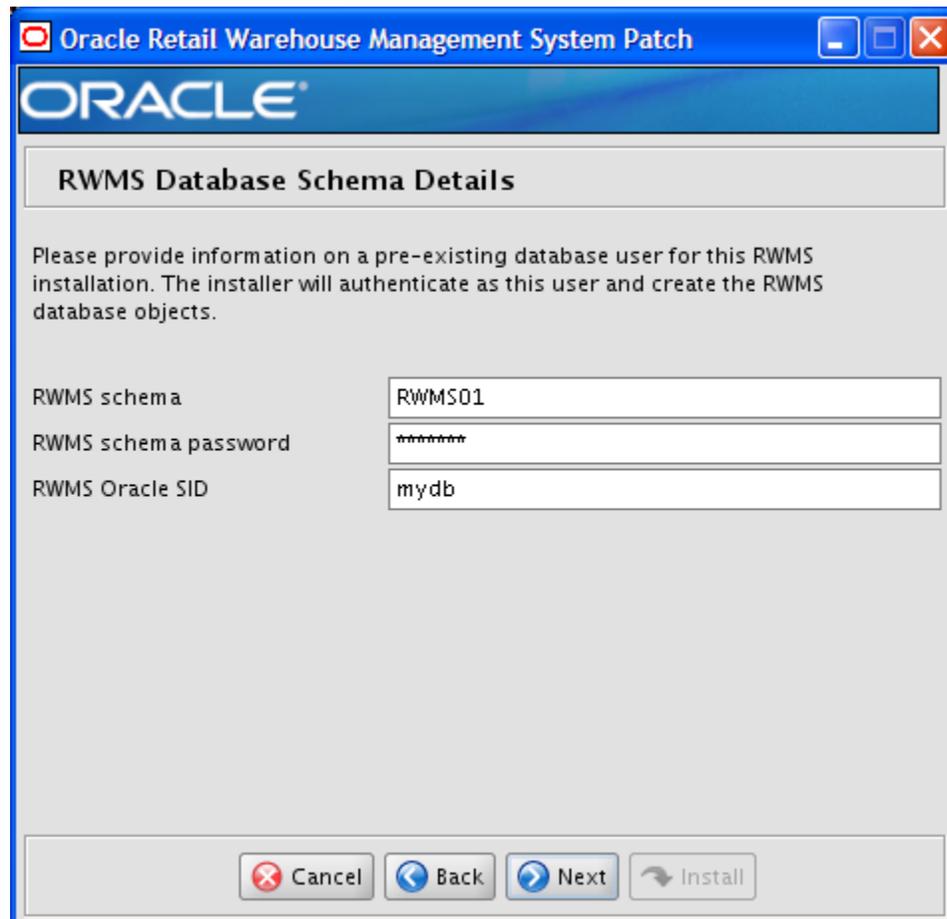
```
#####
# Oracle 11.2.0.x Parameter file
#
# NOTES: Before using this script:
#       1. Change <datafile_path>, <admin_path>, <utl_file_path>, <diag_path>
and <hostname>
#       values as appropriate.
#       2. Replace the word SID with the database name.
#       3. Size parameters as necessary for development, test, and production
environments.
# -----
# MAINTENANCE LOG
#
# Date      By      Parameter      Old/New      Notes
# +-----+ +-----+ +-----+ +-----+ +-----+
#
#
#####
# -----
# The policy is to give 60% for sga and 40% for PGA out of Memory Target at
startup
# -----
memory_target          = 2000M
# -----
audit_file_dest        = <admin_path>/adump
compatible              = 11.2.0
control_files           = (<datafile_path>/control01.ctl
                        ,<datafile_path>/control02.ctl)
db_block_size          = 8192      # Default is 2k; adjust before db creation,
cannot change after db is created
db_cache_size          = <A mimimum starting value >
db_file_multiblock_read_count = 16      # Platform specific (max io
size)/(block size)
db_name                = SID
diagnostic_dest        = '<diag_path>'
java_pool_size         = 100M
job_queue_processes    = 5          # Oracle Retail required; number of
cpu's + 1
local_listener         =
"(ADDRESS=(PROTOCOL=TCP)(HOST=<hostname>)(PORT=1521))"
nls_calendar           = GREGORIAN
nls_date_format        = DD-MON-RR # Oracle Retail required; if RDW
database see later entry for proper format
nls_language           = AMERICAN  # Default
nls_numeric_characters = "., "    # Should be explicitly set to ensure all
users/batch get the same results
nls_sort               = BINARY    # Should be explicitly set to ensure all
sessions get the same order
nls_territory          = AMERICA   # Default
open_cursors           = 900      # Oracle Retail required (minimum=900);
default is 50
```

```
plsql_optimize_level          = 2          # 10g change; use this setting
to optimize plsql performance
processes                     = 2000      # Max number of OS processes that can connect
to the db
query_rewrite_enabled         = TRUE      # Oracle Retail required for function-
based indexes
session_cached_cursors       = 900       # Oracle Retail required;
shared_pool_size              = <A minimum starting value >
shared_pool_reserved_size    = < 10% of the shared_pool_size >
undo_management               = AUTO
undo_retention                 = 1800     # Currently set for 30 minutes; set to avg
length of transactions in sec
undo_tablespace               = undo_ts
utl_file_dir                  = <utl_file_path>
workarea_size_policy          = auto      # Should be set to auto
when pga_aggregate_target is set
#
# *** Set these parameters for Oracle Retail Data Warehouse (RDW) database ***
#nls_date_format              = DD-MON-RRRR # Required by MicroStrategy
#query_rewrite_integrity     = TRUSTED
#star_transformation_enabled = TRUE
#utl_file_dir                 = <Windows_utl_file_path>,
<UNIX_util_file_path>
#
# *** Archive Logging, set if needed ***
#log_archive_dest_1           = 'location=<admin_path>/arch/'
#log_archive_format           = SIDarch_%r_%s_%t.log
#log_buffer                   = 10485760 # Set to (512K or 128K)*CPUs
#log_checkpoint_interval      = 51200    # Default:0 - unlimited
#log_checkpoint_timeout       = 7200     # Default:1800 seconds
```

Appendix: RWMS Database Patch Installer Screens

The following details about your environment are necessary for the installer to successfully patch the RWMS database schema.

Screen: Database Schema Details

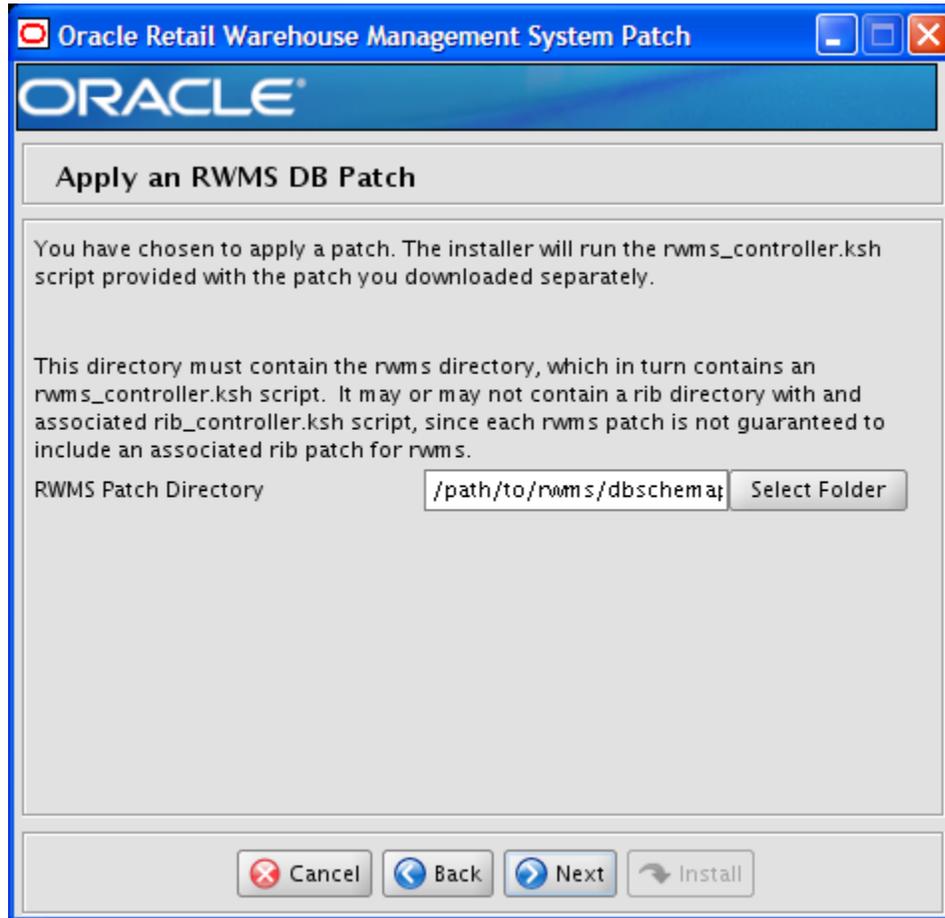


Field Title	RWMS schema
Field Description	Provide the RWMS database user here. The installer logs into the database as this user to create the RWMS schema. This user must already exist in the database when the RWMS database schema installer is run.
Example	RWMS01

Field Title	RWMS schema password
Field Description	Database password for the RWMS schema Owner.

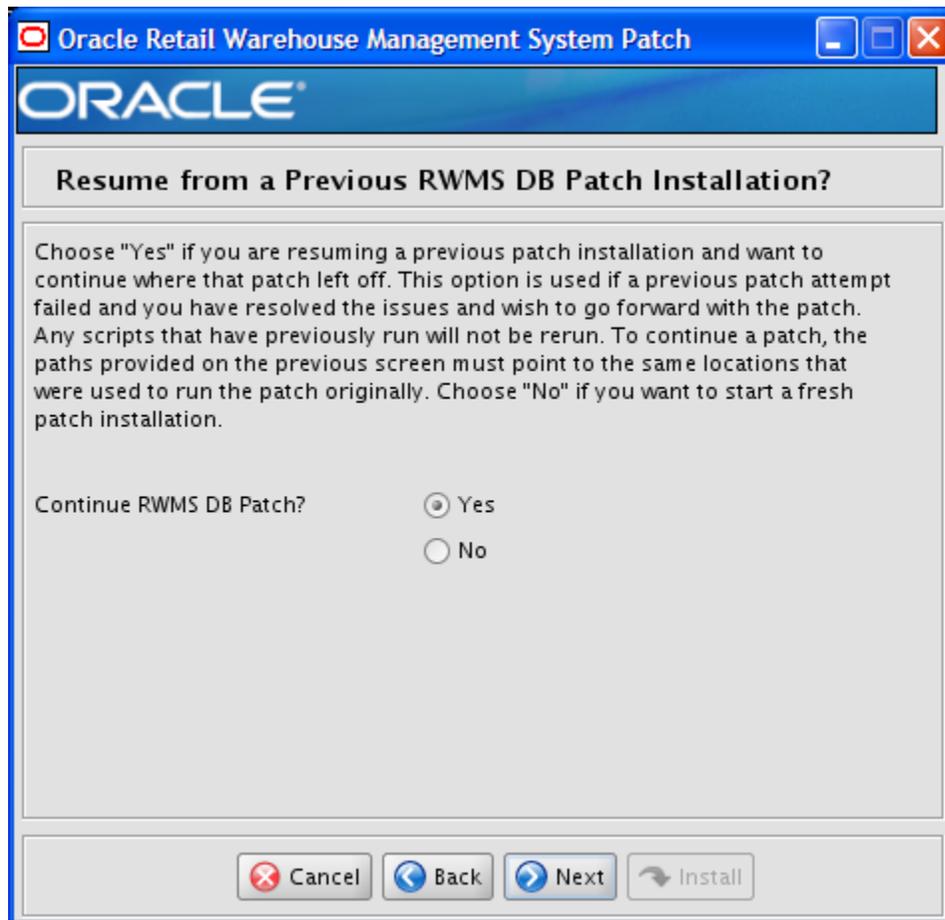
Field Title	RWMS Oracle SID
Field Description	Oracle system identifier for the database where the RWMS patch will be applied.
Example	mydb

Screen: Apply an RWMS DB Patch



Field Title	RWMS Patch Directory
Field Description	Provide the directory path to the RWMS patch you want to install. The installer runs only the patch you provide. Note: The directory you choose must contain <code>rwms/rwms_controller.ksh</code> , and may contain <code>rib/rib_controller.ksh</code> .
Example	<code>/path/to/rwms/dbschemapatch/rwms-dbpatch/<version></code> for all 13.1.x patches Note: The patch option is intended for patches starting with 13.1.5.1.

Screen: Continue RWMS DB Patch



Field Title	Continue RWMS DB Patch?
Field Description	<p>The patch process allows you to continue a previously run patch if it stopped before completion or failed. If Yes is selected, any scripts that were previously run for the RWMS patch will be skipped. If No is selected, the patch will start from the beginning.</p> <p>Note: To continue a patch, the content of the “processed” directories in the RWMS Patch chosen on the previous screen must be the same as it was after the previous patch was stopped. If you choose No, this directory will be cleared, and you will not be able to continue this patch in the future.</p>

Appendix: Installer Silent Mode

In addition to the GUI and text interfaces of the RWMS installer, there is a silent mode that can be run. This mode is useful if you wish to run a repeat installation without retyping the settings you provided in the previous installation. It is also useful if you encounter errors in the middle of an installation and wish to continue.

The installer runs in two distinct phases. The first phase involves gathering settings from the user. At the end of the first phase, a properties file named `ant.install.properties` is created with the settings that were provided. Then the second phase begins, where this properties file is used to provide your settings for the installation.

To skip the first phase and re-use the `ant.install.properties` file from a previous run, follow these instructions:

1. Edit the `ant.install.properties` file and correct any invalid settings that may have caused the installer to fail in its previous run.
2. Look for duplicate properties in the `ant.install.properties` file. Some properties are set on multiple pages to ensure default values when a page is only displayed under certain conditions. For example, if there are two instances of `input.property.name`, remove all but the last one.
3. Run the installer again with the **silent** argument.

Example: `install.sh silent`

Appendix: Common Installation Errors

This section provides some common errors encountered during installation of RWMS.

Database Installer hangs on startup

Symptom

When the database schema installer is run, the following is written to the console and the installer hangs indefinitely:

```
Running pre-install checks
Running tnsping to get listener port
```

Solution

The installer startup script is waiting for control to return from the **tnsping** command, but **tnsping** is hanging. Type Control+C to cancel the installer, and investigate and solve the problem that is causing the **tnsping <sid>** command to hang. This can be caused by duplicate database listeners running.

Unreadable buttons in the Installer

If you are unable to read the text within the installer buttons, it probably means that your `JAVA_HOME` is pointed to a pre-1.4.2 JRE or JDK.

Set `JAVA_HOME` with the appropriate JDK (the same JDK that has been used by WebLogic Server).

Warning: Could not create system preferences directory

Symptom

The following text appears in the installer Errors tab:

```
May 22, 2006 11:16:39 AM java.util.prefs.FileSystemPreferences$3 run
WARNING: Could not create system preferences directory. System preferences are
unusable.
May 22, 2006 11:17:09 AM java.util.prefs.FileSystemPreferences
checkLockFile0ErrorCode
WARNING: Could not lock System prefs. Unix error code -264946424.
```

Solution

This is related to Java bug 4838770. The `/etc/.java/.systemPrefs` directory may not have been created on your system. See <http://bugs.sun.com> for details.

This is an issue with your installation of Java and does not affect the Oracle Retail product installation.

Warning: Could not find X Input Context

Symptom

The following text appears in the console window during execution of the installer in GUI mode:

```
Couldn't find X Input Context
```

Solution

This message is harmless and can be ignored.

Unresponsive drop-downs

Symptom

In GUI mode, when you click on the drop-down list, the list does not appear, and the following message appears in the console window:

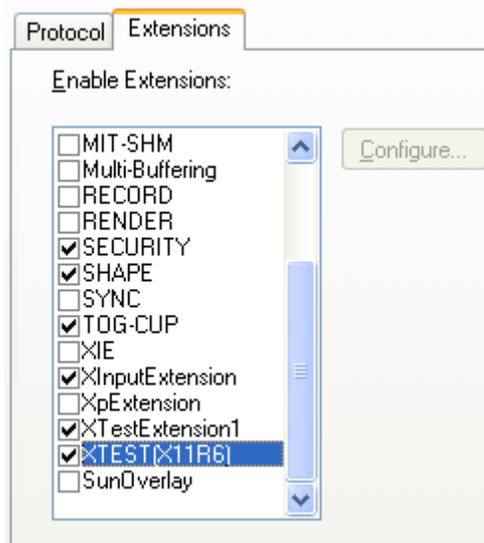
```
XTEST extension not installed on this X server: Error 0
```

Solution

To run the installer in GUI mode, you must have the XTEST extension enabled in your X server.

Enabling XTEST in Exceed:

1. Open Xconfig to edit Exceed configuration.
2. Go to the X Server Protocol settings.
3. Click the Extensions tab.
4. Make sure that the XTEST extension is selected:



5. Restart the X Server and run the installer again.

Could not execl robot child process: Permission denied

Symptom

When opening a drop-down list in GUI mode of the RWMS installer, the installer freezes up and displays the following message in the console:

```
Couldn't execl robot child process: Permission denied
```

Solution

As the owner of the database ORACLE_HOME (i.e. *oracle*), grant execute permissions to the `awt_robot*` files under `$ORACLE_HOME/jdk/jre/lib`. The database schema installer uses `$ORACLE_HOME/jdk` for its `JAVA_HOME`.

Example (using SUN Solaris):

```
chmod a+x $ORACLE_HOME/jdk/jre/lib/sparc/awt_robot
chmod a+x $ORACLE_HOME/jdk/jre/lib/sparcv9/awt_robot
```

ConcurrentModificationException in Installer GUI

Symptom

In GUI mode, the errors tab shows the following error:

```
java.util.ConcurrentModificationException
    at
java.util.AbstractList$Itr.checkForComodification(AbstractList.java:448)
    at java.util.AbstractList$Itr.next(AbstractList.java:419)
... etc
```

Solution

You can ignore this error. It is related to third-party Java Swing code for rendering of the installer GUI and does not affect the retail product installation.

ORA-04031 (unable to allocate memory) error during database schema installation

Symptom

When running the database schema installer you get the following error one or more times:

```
[ora:sqlplus] alter package
[ora:sqlplus] *
[ora:sqlplus] ERROR at line 1:
[ora:sqlplus] ORA-04031: unable to allocate 92120 bytes of shared memory ("shared
[ora:sqlplus] pool", "unknown object", "PL/SQL MPCODE", "BAMIMA: Bam Buffer")
```

Solution

There was not enough available memory in the shared pool on the database at the time of compilation. There are several choices to get past this error:

- Log into the database and attempt to recompile invalid objects in the database schema. Subsequent attempts to compile the same object(s) can be successful.
- Have a DBA increase the shared pool size on the database and re-run the installer from scratch on a new schema user.

GUI screens fail to open when running Installer

Symptom

When running the installer in GUI mode, the screens fail to open and the installer ends, returning to the console without an error message. The ant.install.log file contains this error:

```
Fatal exception: Width (0) and height (0) cannot be <= 0  
java.lang.IllegalArgumentException: Width (0) and height (0) cannot be <= 0
```

Solution

This error is encountered when Antinstaller is used in GUI mode with certain X Servers. To workaround this issue, copy ant.install.properties.sample to ant.install.properties and rerun the installer.

Appendix: Web Browser Configuration

This appendix provides information on configuring Internet Explorer and Mozilla Firefox Web browsers for operation with RWMS.

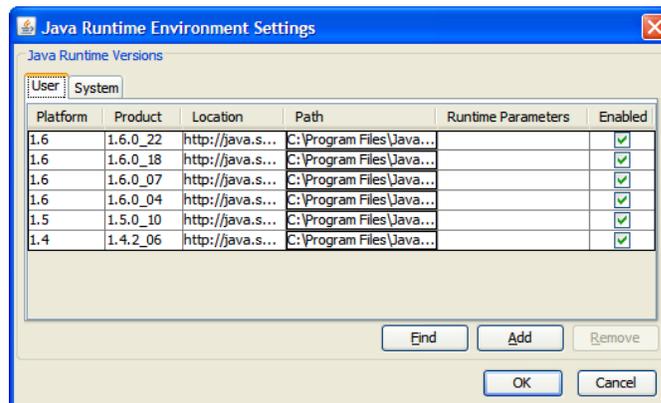
Note: The Oracle's Java Runtime Environment (JRE) is required to support Applets within a sandboxed security environment in the Web browser. The security architecture of the JRE has changed from JRE1.6.0_37 and higher and requires additional configuration in Windows.

Microsoft Internet Explorer Version 8.0 or 9.0

Note: Before proceeding, ensure that you have the JRE 1.6.0_37 or higher installed.

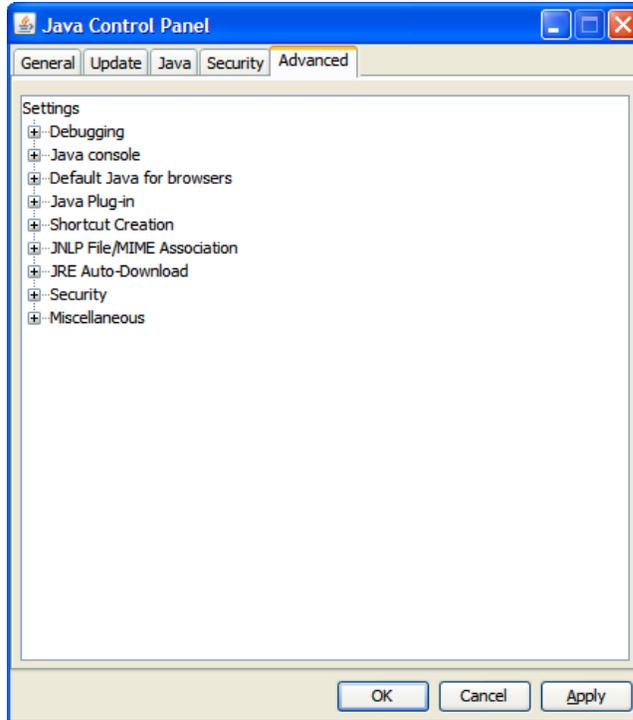
To configure the latest JRE for Internet Explorer 8 or 9, do the following:

1. Use the Windows Control Panel and open the **Java** Control Panel.
2. Select the **Java** tab in the Java Control Panel, and click **View** to confirm that the JRE1.6.0_37 or higher product is installed and enabled.



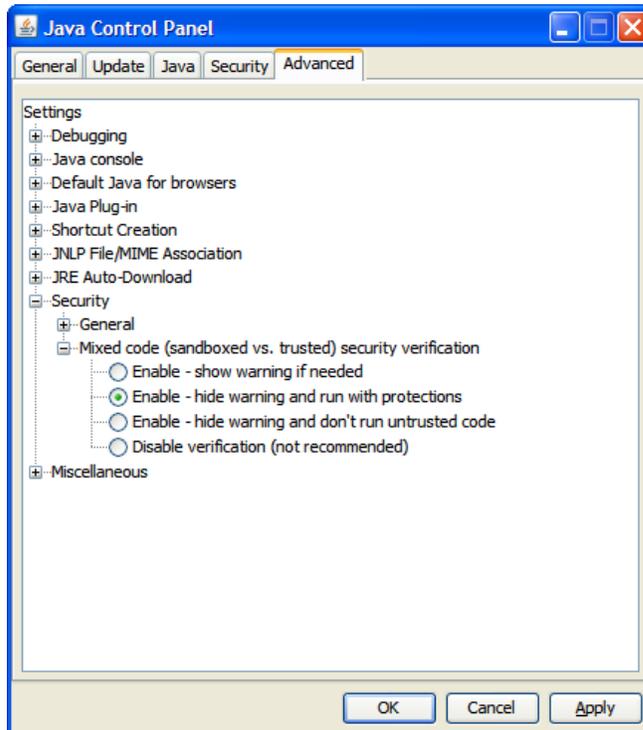
Java Runtime Environment Settings Window

3. Click **OK** and return back to the Java Control Panel.
4. Click the **Advanced** tab.



Options in the Advanced Tab

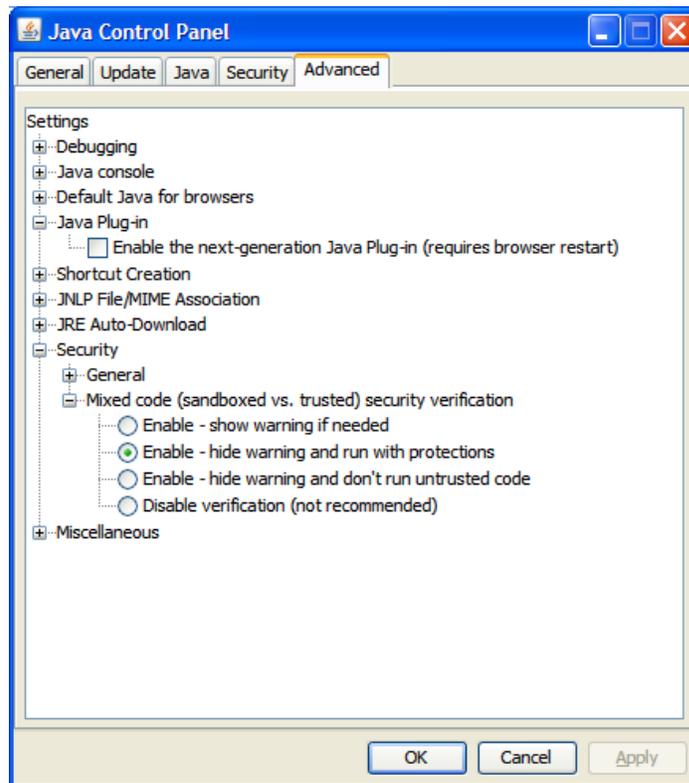
5. Click the Plus (+) icon and expand **Security**, and then expand **Mixed code**.



Mixed Code Settings in Java Control Panel

6. Click the **Enable – hide warning and run with protections** option to stop warning popup messages from appearing, but still enables the Java applet code to execute with protection.

7. Disable the next generation Java Plug-in option by expanding **Java Plug-in**, and then clearing the **Enable the next-generation Java Plug-in** check box.



Java Plug-in Option in Java Control Panel

8. Restart your Web browser to run the RMS Forms displays.

Mozilla Firefox ESR 17+

Mozilla Firefox supports a JRE sandboxed environment in a different manner to Internet Explorer with additional plug-ins to support specific versions of the Java Console for the JREs. Firefox includes the accurate JPI versions. The formsweb.cfg file defines how Web browsers handle Forms applets. The browser is instructed to use the Java Platform Interface (JPI) for applets using the following entry in the formsweb.cfg file located at <ORACLE_HOME>/forms/server:

```
jpi_mimetype=application/x-java-applet;jpi-version=1.4.2_06
```

Update this entry to the following to make Firefox work:

```
jpi_mimetype=application/x-java-applet
```

Note: No server restart is required for this to work.

This does not impact the operation of Internet Explorer Web browsers configured as described in the previous section.

Firefox sets the plug-in interfaces it uses, so by removing the version details it can now use the relevant JRE installed. You must also configure the Firefox Web browser to ignore warnings about pages that use low grade security in the Options menu under the Security tab (in a similar way to Internet Explorer).

Appendix: Installation Order

This section provides a guideline as to the order in which the Oracle Retail applications should be installed. If a retailer has chosen to use some, but not all, of the applications the order is still valid less the applications not being installed.

Note: The installation order is not meant to imply integration between products.

Enterprise Installation Order

1. Oracle Retail Merchandising System (RMS), Oracle Retail Trade Management (RTM), Oracle Retail Sales Audit (ReSA)
2. Oracle Retail Service Layer (RSL)
3. Oracle Retail Extract, Transform, Load (RETL)
4. Oracle Retail Active Retail Intelligence (ARI)
5. Oracle Retail Warehouse Management System (RWMS)
6. Oracle Retail Allocation
7. Oracle Retail Invoice Matching (ReIM)
8. Oracle Retail Price Management (RPM)

Note: During installation of RPM, you are asked for the RIBforRPM provider URL. Since RIB is installed after RPM, make a note of the URL you enter. If you need to change the RIBforRPM provider URL after you install RIB, you can do so by editing the `jndi_provider.xml` file.

9. Oracle Retail Central Office (ORCO)
10. Oracle Retail Returns Management (ORRM)
11. Oracle Retail Back Office (ORBO) or Back Office with Labels and Tags (ORLAT)
12. Oracle Retail Store Inventory Management (SIM)

Note: During installation of SIM, you are asked for the RIB provider URL. Since RIB is installed after SIM, make a note of the URL you enter. If you need to change the RIB provider URL after you install RIB, you can do so by editing the `jndi_providers_ribclient.xml` file.

13. Oracle Retail Predictive Application Server (RPAS)
14. Oracle Retail Demand Forecasting (RDF)
15. Oracle Retail Category Management (CM)
16. Oracle Retail Replenishment Optimization (RO)
17. Oracle Retail Analytic Parameter Calculator Replenishment Optimization (APC RO)
18. Oracle Retail Regular Price Optimization (RPO)
19. Oracle Retail Merchandise Financial Planning (MFP)
20. Oracle Retail Size Profile Optimization (SPO)

21. Oracle Retail Assortment Planning (AP)
22. Oracle Retail Item Planning (IP)
23. Oracle Retail Item Planning configured for COE (IPCOE)
24. Oracle Retail Advanced Inventory Planning (AIP)
25. Oracle Retail Integration Bus (RIB)
26. Oracle Retail Point-of-Service (ORPOS)
27. Oracle Retail Analytics Applications
28. Oracle Retail Data Warehouse (RDW)
29. Oracle Retail Workspace (ORW)