

**Oracle® Retail Warehouse Management System**  
Installation Guide  
Release 12.0.12  
E38125-02

February 2014

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Oracle Retail Warehouse Management System, Installation Guide, Release 12.0.12

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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?
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- Are the examples correct? Do you need more examples?

If you find any errors or have any other suggestions for improvement, then please tell us your name, the name of the company who has licensed our products, the title and part number of the documentation and the chapter, section, and page number (if available).

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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 12.0.12 documentation set:

- *Oracle Retail Warehouse Management System Release Notes*
- *Oracle Retail Warehouse Management System User Interface User Guide*
- *Oracle Retail Warehouse Management System Radio Frequency User Guide*

## 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, 12.0) or a later patch release (for example, 12.0.12). If you are installing the base release, additional patch, and bundled hot fix releases, read the documentation for all releases that have occurred since the base release before you begin installation. Documentation for patch and bundled hot fix releases can contain critical information related to the base release, as well as information about code changes since the base release.

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## Oracle Retail Documentation on the Oracle Technology Network

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/technology/documentation/oracle\\_retail.html](http://www.oracle.com/technology/documentation/oracle_retail.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

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# Preinstallation Tasks

## Check Database Server Requirements

General Requirements for a database server running RWMS include:

Supported on:	Versions Supported:
Database Server OS	<p>OS certified with Oracle Database 9i Enterprise Edition. Options are:</p> <ul style="list-style-type: none"> <li>▪ AIX 5.3</li> <li>▪ Solaris 10 Sparc</li> <li>▪ HP-UX 11.23 (PARISC)</li> </ul>
Database Server	<p>Oracle Database 9i Enterprise Edition (minimum 9.2.0.8 patchset required) with the following patches and components:</p> <p><b>Patches:</b></p> <ul style="list-style-type: none"> <li>▪ 9.2.0.8 patchset 4547809.</li> <li>▪ Oneoff patch: 4689959 (DST RULE CHANGE IN US, NEED PATCHED TIMEZONE FILES)</li> </ul> <p><b>Components:</b></p> <ul style="list-style-type: none"> <li>▪ Oracle Database</li> <li>▪ Oracle Partitioning</li> <li>▪ Oracle Net Services</li> <li>▪ Oracle Call Interface (OCI)</li> <li>▪ Oracle Programmer</li> <li>▪ Oracle XML Development Kit</li> </ul> <p><b>Other Components:</b></p> <ul style="list-style-type: none"> <li>▪ Perl compiler 5.0 or later</li> <li>▪ x-Windows interface</li> </ul>

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## Check Application Server Requirements

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

Supported on:	Versions Supported:
Application Server OS	Application Server OS certified with Oracle Application Server (9IAS) 1.0.2.2.x and Forms Server 6i. Options are: <ul style="list-style-type: none"> <li>▪ AIX5.3</li> <li>▪ Solaris 10</li> <li>▪ HP-UX 11.23</li> </ul> Application Server Oracle Application Server (9IAS) 1.0.2.2.x x-Windows interface (only if UNIX OS)
Application Server	Oracle Application Server Forms and Reports (9IAS) 1.0.2.2.x with the forms server 6i upgrade for RWMS from 6.0.8.27.0 (patch set 18) to 6.0.8.28.0 (patch set 19)

## Check Web Browser and Client Requirements

General requirements for client running RWMS include:

Requirement	Version
Operating system	Microsoft Windows XP Pro SP2
Sun JRE Plug-in	Sun JRE 1.5.0_12 or later, or JRE 1.6.0_03 or later
Browser	Microsoft Internet Explorer version 7.0 or 8.0

## Supported Oracle Retail Products

Requirement	Version
RMS	12.0.12
SIM	12.0.12

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## Database Upgrade Instructions

This chapter describes how you can upgrade the RWMS database with this patch release. Before you apply the RWMS 12.0.12 patch:

- Make a backup of all your objects and database schema.
- Check that RWMS 12.0.11 is installed.
- Review the enclosed RWMS 12.0.12 Patch Release Notes (rwms-12012-rn.pdf).
- Review each of the enclosed defect documents.
- Note: The RWMS 12.0.12 patch contains all the bundled hot fix releases plus the delta from the last patch to this release. The following make up the RWMS 12.0.12 patch
  - 12.0.11.1
  - 12.0.11.2
  - 12.0.11.3
  - 12.0.11.4
  - 12.0.11.5
  - 12.0.11.6
  - 12.0.11.7
  - 12.0.12.delta (delta between 12.0.11.7 and 12.0.12 release)

With this release, patching is made more flexible by allowing the ability to start the patch at any hot fix level. For example, if 12.0.11.5 has already been applied in the environment, then applying 12.0.11.6, 12.0.11.7 and 12.0.12.delta is only necessary.

The installation instructions explain how to install all bundled hot fixes plus the delta.

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.

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**Note:** These instructions refer to RWMS12DEV as the Oracle owning schema.

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### Copy from CD Directory

1. Copy the rwms12012patch.zip file from the CD/ directory to a newly created staging directory on your UNIX server.
2. Unzip the file using the following command:  
`unzip rwms12012dbpatch.zip`

## Apply RWMS 12.0.11.1 Bundled Hot Fix Release

Run the following scripts only if the RWMS 12.0.11.1 bundled hot fix release has not been installed in the environment:

### Alter RWMS Tables

1. Change directories to STAGING\_AREA/rwms12.0.11.1/dbcs.
2. Log in to SQL\*Plus as RWMS12DEV and run the following command:  
`SQL> @patch120111dbcs.sql`
3. Check the log file patch120111dbcs.log for any errors.

### Alter RWMS Database Objects

1. Change directories to STAGING\_AREA/rwms12.0.11.1/db\_objects.
2. Log in to SQL\*Plus as RWMS12DEV and run the following command:  
`SQL> @patch120111objects.sql`
3. Check the log file patch120111objects.log for any errors. Validating the invalid objects will be completed at the end.

### Update Data for RWMS

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**Note:** Ensure that you have your NLS\_LANG set to UTF-8.  
For example AMERICAN\_AMERICA.UTF8

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1. Change directories to STAGING\_AREA/rwms12.0.11.1/data.
2. Log in to SQL\*Plus as RWMS12DEV and run the following command:  
`SQL> @patch120111ctl.sql`
3. Check the log file patch120111ctl.log for any errors.

## Apply RWMS 12.0.11.2 Bundled Hot Fix Release

Run the following scripts only if RWMS 12.0.11.1 has been installed and RWMS 12.0.11.2 bundled hot fix release has not been installed in the environment.

### Alter RWMS Database Objects

1. Change directories to STAGING\_AREA/rwms12.0.11.2/db\_objects.
2. Log in to SQL\*Plus as RWMS12DEV and run the following command:  
`SQL> @patch120112objects.sql`
3. Check the log file patch120112objects.log for any errors. Validating the invalid objects will be completed at the end.

### Update Data for RWMS

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**Note:** Ensure that you have your NLS\_LANG set to UTF-8.  
For example AMERICAN\_AMERICA.UTF8

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1. Change directories to STAGING\_AREA/rwms12.0.11.2/data.
2. Log in to SQL\*Plus as RWMS12DEV and run the following command:  
`SQL> @patch120112ctl.sql`
3. Check the log file patch120112ctl.log for any errors.

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## Apply RWMS 12.0.11.3 Bundled Hot Fix Release

Run the following scripts only if RWMS 12.0.11.1 and RWMS 12.0.11.2 have been installed and RWMS 12.0.11.3 bundled hot fix release has not been installed in the environment:

### Alter RWMS Tables

1. Change directories to STAGING\_AREA/rwms12.0.11.3/dbcs.
2. Log in to SQL\*Plus as RWMS12DEV and run the following command:  
`SQL> @patch120113dbcs.sql`
3. Check the log file patch120113dbcs.log for any errors.

### Alter RWMS Triggers

1. Change directories to STAGING\_AREA/rwms12.0.11.3/triggers.
2. Log in to SQL\*Plus as RWMS12DEV and run the following command:  
`SQL> @patch120113triggers.sql`
3. Check the log file patch120113triggers.log for any errors.

### Alter RWMS Database Objects

1. Change directories to STAGING\_AREA/rwms12.0.11.3/db\_objects.
2. Log in to SQL\*Plus as RWMS12DEV and run the following command:  
`SQL> @patch120113objects.sql`
3. Check the log file patch120113objects.log for any errors. Validating the invalid objects will be completed at the end.

### Update Data for RWMS

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**Note:** Ensure that you have your NLS\_LANG set to UTF-8.  
For example AMERICAN\_AMERICA.UTF8

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1. Change directories to STAGING\_AREA/rwms12.0.11.3/data.
2. Log in to SQL\*Plus as RWMS12DEV and run the following command:  
`SQL> @patch120113ctl.sql`
3. Check the log file patch120113ctl.log for any errors.

## Apply RWMS 12.0.11.4 Bundled Hot Fix Release

Run the following scripts only if RWMS 12.0.11.1, RWMS 12.0.11.2, and RWMS 12.0.11.3 have been installed and RWMS 12.0.11.4 bundled hot fix release has not been installed in the environment:

### Alter RWMS Database Objects

1. Change directories to STAGING\_AREA/rwms12.0.11.4/db\_objects.
2. Log in to SQL\*Plus as RWMS12DEV and run the following command:  
`SQL> @patch120114objects.sql`
3. Check the log file patch120114objects.log for any errors. Validating the invalid objects will be completed at the end.

### Update Data for RWMS

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**Note:** Ensure that you have your NLS\_LANG set to UTF-8.  
For example AMERICAN\_AMERICA.UTF8

---

1. Change directories to STAGING\_AREA/rwms12.0.11.4/data.
2. Log in to SQL\*Plus as RWMS12DEV and run the following command:  
`SQL> @patch120114ctl.sql`
3. Check the log file patch120114ctl.log for any errors.

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## Apply RWMS 12.0.11.5 Bundled Hot Fix Release

Run the following scripts only if RWMS 12.0.11.1, RWMS 12.0.11.2, RWMS 12.0.11.3, and RWMS 12.0.11.4 have been installed and RWMS 12.0.11.5 bundled hot fix release has not been installed in the environment:

### Alter RWMS Tables

1. Change directories to STAGING\_AREA/rwms12.0.11.5/dbcs.
2. Log in to SQL\*Plus as RWMS12DEV and run the following command:  
`SQL> @patch120115dbcs.sql`
3. Check the log file patch120115dbcs.log for any errors.

### Alter RWMS Triggers

1. Change directories to STAGING\_AREA/rwms12.0.11.5/triggers.
2. Log in to SQL\*Plus as RWMS12DEV and run the following command:  
`SQL> @patch120115triggers.sql`
3. Check the log file patch120115triggers.log for any errors.

### Alter RWMS Database Objects

1. Change directories to STAGING\_AREA/rwms12.0.11.5/db\_objects.
2. Log in to SQL\*Plus as RWMS12DEV and run the following command:  
`SQL> @patch120115objects.sql`
3. Check the log file patch120115objects.log for any errors. Validating the invalid objects will be completed at the end.

### Update Data for RWMS

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**Note:** Ensure that you have your NLS\_LANG set to UTF-8.  
For example AMERICAN\_AMERICA.UTF8

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1. Change directories to STAGING\_AREA/rwms12.0.11.5/data.
2. Log in to SQL\*Plus as RWMS12DEV and run the following command:  
`SQL> @patch120115ctl.sql`
3. Check the log file patch120115ctl.log for any errors.

## Apply RWMS 12.0.11.6 Bundled Hot Fix Release

Run the following scripts only if RWMS 12.0.11.1, RWMS 12.0.11.2, RWMS 12.0.11.3, RWMS 12.0.11.4 and RWMS 12.0.11.5 have been installed and RWMS 12.0.11.6 bundled hot fix release has not been installed in the environment:

### Alter RWMS Database Objects

1. Change directories to STAGING\_AREA/rwms12.0.11.6/db\_objects.
2. Log in to SQL\*Plus as RWMS12DEV and run the following command:  
`SQL> @patch120116objects.sql`
3. Check the log file patch120116objects.log for any errors. Validating the invalid objects will be completed at the end.

### Update Data for RWMS

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**Note:** Ensure that you have your NLS\_LANG set to UTF-8.  
For example AMERICAN\_AMERICA.UTF8

---

1. Change directories to STAGING\_AREA/rwms12.0.11.6/data.
2. Log in to SQL\*Plus as RWMS12DEV and run the following command:  
`SQL> @patch120116ctl.sql`
3. Check the log file patch120116ctl.log for any errors.

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## Apply RWMS 12.0.11.7 Bundled Hot Fix Release

Run the following scripts only if RWMS 12.0.11.1, RWMS 12.0.11.2, RWMS 12.0.11.3, RWMS 12.0.11.4, RWMS 12.0.11.5 and RWMS 12.0.11.6 have been installed and RWMS 12.0.11.7 bundled hot fix release has not been installed in the environment:

### Alter RIB Objects

1. Change directories to STAGING\_AREA/rwms12.0.11.7/rib\_objects.
2. Log in to SQL\*Plus as RWMS12DEV and run the following command:  
`SQL> patch120117rib.sql`
3. Check the log file patch120117rib.log for any errors.

### Alter RWMS Tables

1. Change directories to STAGING\_AREA/rwms12.0.11.7/dbcs.
2. Log in to SQL\*Plus as RWMS12DEV and run the following command:  
`SQL> @patch120117dbcs.sql`
3. Check the log file patch120117dbcs.log for any errors.

### Alter RWMS Triggers

1. Change directories to STAGING\_AREA/rwms12.0.11.7/triggers.
2. Log in to SQL\*Plus as RWMS12DEV and run the following command:  
`SQL> @patch120117triggers.sql`
3. Check the log file patch120117triggers.log for any errors.

### Alter RWMS Database Objects

1. Change directories to STAGING\_AREA/rwms12.0.11.7/db\_objects.
2. Log in to SQL\*Plus as RWMS12DEV and run the following command:  
`SQL> @patch120117objects.sql`
3. Check the log file patch120117objects.log for any errors. Validating the invalid objects will be completed at the end.

### Update Data for RWMS

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**Note:** Ensure that you have your NLS\_LANG set to UTF-8.  
For example AMERICAN\_AMERICA.UTF8

---

1. Change directories to STAGING\_AREA/rwms12.0.11.7/data.
2. Log in to SQL\*Plus as RWMS12DEV and run the following command:  
`SQL> @patch120117ctl.sql`
3. Check the log file patch120117ctl.log for any errors.

## Apply the Delta from RWMS 12.0.11.7 to 12.0.12

Run the following scripts only after the RWMS 12.0.11.1, RWMS 12.0.11.2, RWMS 12.0.11.3, RWMS 12.0.11.4, RWMS 12.0.11.5, RWMS 12.0.11.6, and RWMS 12.0.11.7 bundled hot fix releases have been installed in the environment:

### Alter RIB Objects

1. Change directories to STAGING\_AREA/rwms12.0.12.delta/rib\_objects.
2. Log in to SQL\*Plus as RWMS12DEV and run the following command:  
`SQL> patch12012rib.sql`
3. Check the log file patch12012rib.log for any errors.

### Alter RWMS Triggers

1. Change directories to STAGING\_AREA/rwms12.0.12.delta/triggers.
2. Log in to SQL\*Plus as RWMS12DEV and run the following command:  
`SQL> @patch12012triggers.sql`
3. Check the log file patch12012triggers.log for any errors.

### Alter RWMS Database Objects

1. Change directories to STAGING\_AREA/rwms12.0.12.delta/db\_objects.
2. Log in to SQL\*Plus as RWMS12DEV and run the following command:  
`SQL> @patch12012objects.sql`
3. Check the log file patch12012objects.log for any errors.

### Update Data for RWMS

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---

**Note:** Ensure that you have your NLS\_LANG set to UTF-8.  
For example AMERICAN\_AMERICA.UTF8

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1. Change directories to STAGING\_AREA/rwms12.0.12.delta/data.
2. Log in to SQL\*Plus as RWMS12DEV and run the following command:  
`SQL> @patch12012ctl.sql`
3. Check the log file patch12012ctl.log for any errors.

### Validate all Invalid Objects

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**Note:** Deadlocked objects may appear when running this script. This is expected. Run the script until no invalid objects remain.

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1. Change directories to STAGING\_AREA/utility.
2. Log in to SQL\*Plus as RWMS12DEV and run the following command:  
`SQL> @inv_obj_comp.sql`
3. This script may need to be run more than once.

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# Application Server Installation Instructions

This chapter describes how you can apply this patch release to an RWMS 12.0.x environment set up for your business.

In this chapter,

- STAGING\_AREA indicates the location where the RWMS 12.0.12 files are extracted.
- INSTALL\_DIR indicates the location where the RWMS 12.x files have been installed.
- 9iAS\_ORACLE\_HOME indicates the location where the Oracle 9iAS Forms 6i and Reports Services (9iAS) are installed.

## Copy from CD Directory

1. Copy the `rwms12012patch.zip` file from the CD to a newly created staging directory on your UNIX server. This zip file also contains the database files.
2. Unzip the file using the following command:

```
unzip rwms12012patch.zip
```

## Setting Up the Environment Variables

1. Set and export your DISPLAY variable.

For example:

```
export DISPLAY=10.1.2.153:0.0
```

2. Set the following variables:

```
export FORMS60_PATH= <INSTALL_DIR>/forms/bin
```

(Fill in the appropriate values for <INSTALL\_DIR>)

```
export UP=<db_user>/<db_user_password>@<oracle_db>
```

(db\_user is the RWMS oracle schema owner.)

```
export LD_LIBRARY_PATH=
```

```
9IAS_ORACLE_HOME/6iserver/lib:9IAS_ORACLE_HOME/6iserver/network/jre11/lib/sparc/native_threads
```

```
export REPORTS60_PATH=<INSTALL_DIR>/reports/bin
```

```
export PATH=<INSTALL_DIR>/forms6i_scripts:$PATH
```

```
export NLS_LANG=AMERICAN.AMERICA.utf8
```

```
export TK60_UNKNOWN=(location of the Tk2Motif.rgb)
```

## Copying the Files

1. Copy all the files from <STAGING\_AREA>/<release version>/forms/src to <INSTALL\_DIR>/forms/src for all bundled hot fix releases in this order: `rwms12.0.11.1`, `rwms12.0.11.2`, `rwms12.0.11.3`, `rwms12.0.11.4`, `rwms12.0.11.5`, `rwms12.0.11.6`, `rwms12.0.11.7`, `rwms12.0.12.delta`.
2. Copy all the files from <STAGING\_AREA>/<release version>/forms/bin to <INSTALL\_DIR>/forms/bin for all bundled hot fix releases in this order: `rwms12.0.11.7`.

## Compiling the RWMS Libraries (\*.pll)

1. Change directories to <INSTALL\_DIR>/forms/src.
2. Copy all of the libraries (.pll files) in the <INSTALL\_DIR>/forms/src to the <INSTALL\_DIR>/forms/bin.
3. Change directories to <INSTALL\_DIR>/forms/bin.
4. Run the `pll2plx` script.  
This converts the .pll files to .plx format. The `messge36.pll` and `stand36.pll` files are not converted.

## Compiling the Forms (\*.fmb)

1. Change directories to <INSTALL\_DIR>/forms/src.
2. Use the `fmb2fmx` script in the following manner to compile and generate the executable forms (.fmx):  

```
> chmod 755 fmb2fmx (if necessary).  
> ./fmb2fmx
```
3. Check to make sure each .fmb file has a corresponding .fmx file. If a form fails to compile (there is no .fmx file), you may have to manually compile the form by launching the form builder tool (`f60desm&`).
4. From the <INSTALL\_DIR>/forms/src directory, run the following command to move all the .fmx files to the <INSTALL\_DIR>/forms/bin directory:  

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

## Compiling the Menus (\*.mmb)

1. Change directories to <INSTALL\_DIR>/forms/src.
2. Use the `mmb2mmx` script in the following manner to compile and generate the executable form menu (.mmx):  

```
> chmod 755 mmb2mmx (if necessary).  
> ./mmb2mmx
```
3. From the <INSTALL\_DIR>/forms/src directory, run the following command to move all the .mmx files to the <INSTALL\_DIR>/forms/bin directory:  

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