

**Oracle® Retail Merchandising System**  
Installation Guide Addendum  
Release 12.0

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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

## Customer Support

- <https://metalink.oracle.com>

When contacting Customer Support, please provide:

- Product version and program/module name.
- Functional and technical description of the problem (include business impact).
- Detailed step-by-step instructions to recreate.
- Exact error message received.
- Screen shots of each step you take.

## Conventions

**Navigate:** This is a navigate statement. It tells you how to get to the start of the procedure and ends with a screen shot of the starting point and the statement “the Window Name window opens.”

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**Note:** This is a note. It is used to call out information that is important, but not necessarily part of the procedure.

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This is a code sample  
It is used to display examples of code

A [hyperlink](#) appears like this.



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# Introduction

The information in this document reflects modifications and updates to the Oracle Retail Merchandising System (RMS) Installation Guide for 12.0. Using this document in conjunction with that guide provides retailers with a complete overview of the application.

The information in chapters 1 through 6 in this addendum deals with the introduction of Oracle Enterprise Linux as a valid operating system to run Oracle Retail Merchandising System 12.0.3. In order to get RMS 12.0.3 to run on Oracle Enterprise Linux a few additions must be made at the 12.0 level. This install guide addendum points out those changes.

The information in chapter 7 of this addendum deals with an update to the primary and secondary language installation process for a UNIX system. The information contained in chapter 7 replaces the corresponding information in the RMS 12.0 Installation Guide.



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# Oracle Enterprise Linux

With the 12.0.3 release of the Oracle Retail Merchandising System, support for the Oracle Enterprise Linux operating system has been added. All pre-installation requirements for the Oracle Retail Merchandising System remain the same as stated in the RMS 12.0 installation guide, except for the following requirements which are specific to Oracle Enterprise Linux:

## Operating System Version:

- Oracle Enterprise Linux 4 Update 4 for x86-64
- Minimum kernel version kernel-smp-2.6.9-42.0.0.1.EL.x86\_64

## Oracle RDBMS

- Oracle RDBMS 10g Release 2 Enterprise Edition for Linux x86-64
- Minimum 10.2.0.3 patchset
- Patches:  
5397953 (ORA-07445: [KKPAPITGETALL()+2152] [SIGSEGV] [ADDRESS NOT MAPPED TO OBJECT])

## Oracle Application Server

- Oracle Application Server 10g Release 2 (10.1.2.0.2) for Linux x86
- Oracle Application Server 10g Release 3 (10.1.3.0) for Linux x86

## Oracle Retail Merchandising System

- Configured with "No RIB" option



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## RAC and Clustering

The Oracle Retail Merchandising System has been validated to run in two configurations on Linux:

- Standalone OAS & RDBMS installations
- Real Application Cluster RDBMS & Oracle Application Server Clustering

The Oracle Retail products have been validated against a 10.2.0.3 RAC database. When using a RAC database, all JDBC connections should be configured to use OCI connections rather than THIN connections. It is suggested that when using OCI connections, the Oracle Retail products database be configured in the tnsnames.ora file used by the Oracle Application Server installations.

Clustering for Oracle Application Server 10.1.3 is managed as an Active-Active cluster accessed through a hardware Load Balancer. It is suggested that a VirtualHost be added to the OAS 10.1.3 reflecting the Virtual Server Name configured in the load balancer. It is also suggested that the OC4J select method be configured to prefer the use of local OC4J instances. The Oracle Retail products are currently not validated to be distributable at the application level in an OAS 10.1.3 cluster.

Clustering for Oracle Application Server 10.1.2.0.2 is managed as an Active-Active cluster accessed through a hardware Load Balancer. It is suggested that the Web Cache installation included with OAS 10.1.2.0.2 be configured to reflect all application server Mid-Tier installations. Validation has been completed utilizing a RAC 10.2.0.3 Oracle Internet Directory database with the OAS 10.1.2.0.2 cluster.

### References for Configuration:

- Oracle® Application Server High Availability Guide 10g Release 3 (10.1.3) Part Number B15977-02
- Oracle® Application Server High Availability Guide 10g Release 2 (10.1.2) Part Number B14003-05
- Oracle® Database Oracle Clusterware and Oracle Real Application Clusters Administration and Deployment Guide 10g Release 2 (10.2) Part Number B14197-03



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## Partition.ksh

The partition.ksh script that was shipped with RMS 12.0 needs to be replaced with an updated version. The updated version can be found in patch 5985761. This can be downloaded from Metalink.

After the patch has been downloaded from metalink but before starting the Establish Database Partitioning Strategy of Chapter 2 (Database Installation Tasks) in the RMS 12.0 Installation Guide please follow these steps.

### Unzip Patch

1. Copy the zip file to a newly created staging directory on your UNIX server.
2. Unzip the file by entering:  
`unzip 5985761.zip`

### Update Partitioning Scripts

1. Change directories to STAGING\_AREA/partitiong/
2. Copy the contents of STAGING\_AREA/partitiong/ to the RMS 12.0 INSTALL\_DIR/ddl/part directory.

After these steps continue with your partitioning setup as documented in the RMS 12.0 Installation Guide.



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## Updated Seed and Demo Scripts

The seed and demo data scripts that were shipped with RMS 12.0 need to be replaced with updated versions. The updated version can be found in patch 5985761. This can be downloaded from Metalink.

After the patch has been downloaded from metalink but before starting the Create RIB Objects section of Chapter 2 (Database Installation Tasks) in the RMS 12.0 Installation Guide please follow these steps.

### Language Setup

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**Note:** The <xxx>\_fmb.xml.sql and <xxx>\_mmb.xml.sql scripts along with base\_form\_menu\_elements.sql and base\_form\_menu\_elements\_langs.sql scripts needs to be exclusively present in sub directory called form\_menu\_elements inside the INSTALL\_DIR

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#### Primary Language

Language Setup happens during the seed data setup. The language used in the system is user specific which is stored in the USER\_ATTRIB table. The language in which the system will function is the primary language. The primary language is set to English by default during seed data setup.

If the client wishes to have a primary language other than English, the corresponding language has to be selected while seed data script prompts.

#### Secondary Languages

This is required only for clients who wish to have a primary language of English and a secondary language of any combination of the following: German, Spanish, French, Korean, Brazilian Portuguese, Japanese, Simplified Chinese or Traditional Chinese.

The client can insert any of the above languages data by executing the language scripts prompted by the seed data script. The translated values for secondary languages will be stored in TL\_SHADOW table for all columns which support translated values. These columns are stored in TL\_COLUMNS table.

The application can be opened either in primary language or in any of the secondary languages for which the translated values are inserted. The application labels and the descriptions will be displayed in the appropriate secondary language selected.

### Unzip patch

1. Copy the zip file to a newly created staging directory on your UNIX server.
2. Unzip the file by entering:  
unzip 5985761.zip

## Remove Loading RIB data Section

The section of the RMS 12.0 install guide titled “Loading RIB data” (page 15 of 55) can be removed. The new data seeding script will load this data.

## Update Packages for RMS

Complete this section before starting the “Create RMS Database Objects” (page 17 of 55) section of Chapter 2 (Database Installation Tasks) in the RMS 12.0 Installation Guide.

1. Change directories to STAGING\_AREA/seed\_data/db\_objects
2. Copy the contents of STAGING\_AREA/seed\_data/db\_objects to the RMS 12.0 INSTALL\_DIR/db\_objects directory.

## Insert Seed Data for RMS

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**Note:** The rmsseeddata.sql inserts the RMS default names for all the Organization and Merchandise hierarchy fields. If these names have to be modified based on the customers naming convention the table dynamic\_hier\_code has to be updated with the custom names.

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This section replaces the following sections of Chapter 2 (Database Installation Tasks) in the RMS 12.0 Installation Guide

- Insert Data for RMS (page 17 of 55)
  - Insert Additional Data for RMS (page 18 of 55)
  - Insert RTM Data for RMS (page 18 of 55)
  - Insert Secondary Language Data (page 19 of 55)
  - Insert Primary Language Data (page 19 of 55)
1. Change directories to STAGING\_AREA/seed\_data/rms\_scripts
  2. Copy the contents of STAGING\_AREA/seed\_data/rms\_scripts to the RMS 12.0 INSTALL\_DIR/data directory.
  3. Change directories to STAGING\_AREA/seed\_data/rib\_scripts
  4. Copy the contents of STAGING\_AREA/seed\_data/rib\_scripts to the RMS 12.0 INSTALL\_DIR/data directory.
  5. Change directories to STAGING\_AREA/seed\_data/
  6. Copy the STAGING\_AREA/seed\_data/form\_menu\_elements directory to the RMS 12.0 INSTALL\_DIR/data directory.

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**Note:** Your NLS\_LANG should be set to a valid UTF8 setting before running these scripts

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7. Change directories to the RMS 12.0 INSTALL\_DIR/data
8. Log into sqlplus as RMS12DEV and run the following command:  
SQL>@rmsseeddata.sql
9. The following items will be prompted for:
  - Enter the username and password(username/password@database): (to launch SQL loader to load RIB\_DOCTYPES
  - Is Vat on?

- Role to add? Default is DEVELOPER
- Enter Calendar type to be used. (Choices are 454 calendar or Standard Calendar)
- Enter week start - weekend option. (Choices are (1)Sat-Fri. (2)Sun-Sat. (3)Mon-Sun.)
- Enter date to be set as transaction date.

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**Note:** vdate should be entered as any date greater than or equal to 'calendar start date +1 month' Calendar start date is hardcoded in the script

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- Would you like to turn RTM on?
- Install a secondary language (if secondary language is required based on the available languages)

Choices are:

'Enter "all" for all the secondary languages'

'Enter "de" for German'

'Enter "es" for Spanish'

'Enter "fr" for French'

'Enter "ja" for Japanese'

'Enter "ko" for Korean'

'Enter "ptb" for Brazilian Portuguese'

'Enter "zhs" for Simplified Chinese'

'Enter "zht" for Traditional Chinese'

'Leave blank if you do not want to install a secondary language'

- Change the primary language (based on the available languages)

Choices are:

'Enter "all" for all the secondary languages'

'Enter "de" for German'

'Enter "es" for Spanish'

'Enter "fr" for French'

'Enter "ja" for Japanese'

'Enter "ko" for Korean'

'Enter "ptb" for Brazilian Portuguese'

'Enter "zhs" for Simplified Chinese'

'Enter "zht" for Traditional Chinese'

'Leave blank if you do not want to install a secondary language'

10. Check the log files for any errors. If RIB data is not loaded correctly then codes.sql script will throw constraint violation errors.

## Insert Demo Data for RMS

This section replaces the following sections of Chapter 2 (Database Installation Tasks) in the RMS 12.0 Installation Guide

- Insert Demo Data for RMS (page 18 of 55)

1. Change directories to the RMS 12.0 INSTALL\_DIR/data

2. Log into sqlplus as RMS12DEV and run the following command:

```
SQL>@rmsdemodata.sql
```

3. The following items will be prompted for:
  - Enter the Base Country ID (2 Character)
  - Enter the Primary Currency
  - Is Multi Channel On?
  - Is Bracket Costing On?
  - What is the Owner Schema?
  - Number of Items to be created.
  - Transaction Level of the items to be created
    - Line
    - Line Extension
    - Variant
4. Check the log files for any errors

The Demo data script inserts data into WH, STORES, DEPS, CLASS, SUBCLASS and ITEM\_MASTER tables. It also inserts into STOCK\_LEDGER\_INSERTS tables so that locations and Merchandise hierarchy show up in stock ledger for processing.

## Insert Role Data into RMS

Data has to be inserted into rtk\_role\_privs table to maintain the application security.

This table should contain one row for each role set-up in Oracle. If demo data script is executed by the clients, then the data will be populated by a call to GENERAL\_DATA\_INSTALL.RTK\_ROLE\_PRIVS

This table requires the following values for the roles:

- The upper limit that the role is able to approve on an order and this value is expressed in primary currency.
- Whether or not the role is able to approve transfers.
- If TSF\_APPR\_IND indicator is set to 'Y', then users in this role will create transfers in approved status, otherwise the transfer will remain in input status and need to be approved at a later time.

This table is maintained by the DBA.

Data has to be inserted into SEC\_FORM\_ACTION table that holds the actions or privileges that user can perform on the forms and menus. The forms or menus that are not present in this table will be accessible to everyone. The role that performs these actions will be decided by the entries in SEC\_FORM\_ACTION\_ROLE table, which is populated during Demo data setup.

This table has to be maintained by the DBA.

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## Batch and Forms

Code changes were made to allow RMS Batch and Forms to work Oracle Enterprise Linux. These code changes are included in the RMS 12.0.3 patch. Compiling batch or forms on Oracle Enterprise Linux prior to the RMS 12.0.3 patch may not work and is not supported.

Stacking the patches will allow all the fixes from 12.0.1 and 12.0.2 to be included in your environment.

Stacking is done by copying over the code from each patch (12.0.1, 12.0.2 and 12.0.3) into their respective homes.

### Batch

Copy batch libraries from PATCH\_DIR/batch/lib/src to  
MMHOME/oracle/lib/src

Copy batch proc from PATCH\_DIR/batch/proc/src  
MMHOME/oracle/proc/src

### Forms, Menus and Reports

Copy toolset from PATCH\_DIR/toolset/src to  
INSTALL\_DIR/toolset/src

Copy forms, menus and libraries from PATCH\_DIR/forms/src to  
INSTALL\_DIR/rms/forms/src

Copy reports and libraries from PATCH\_DIR/reports/src to  
INSTALL\_DIR/rms/reports/src

Compile all according to the RMS 12.0 install guide. The one exception to this is the Libraries for batch need to use the following command in Linux

```
make -f retek.mk -r retek rms resa
```

this command replaces the command on page 21 of 55.



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## Database Installation Tasks Update

The following information replaces information from the corresponding sections in the RMS 12.0 Installation Guide for a UNIX installation.

### Create the Database as Follows

1. Login to UNIX as the Oracle user; typically the user that owns the Oracle RDBMS software.
2. Create the Oracle recommended OFA directory structure for the database (datafile directories, adump, bdump, cdump, arch, create, exp, pfile, udump, utl\_file\_dir)
3. Place an entry in the oratab file for the database and execute oraenv to set the ORACLE\_SID and ORACLE\_HOME environment variables.
4. Copy INSTALL\_DIR/create\_db/init.ora to the \$ORACLE\_HOME/pfile directory and rename it to init\${ORACLE\_SID}.ora. Modify the parameters according to guidelines specified in this file.
5. Create a symbolic link from \$ORACLE\_HOME/pfile/init\${ORACLE\_SID}.ora to \$ORACLE\_HOME/dbs/init\${ORACLE\_SID}.ora.
6. Modify the INSTALL\_DIR/create\_db/crdb1.sql file. Refer to comments in this file regarding modifications that need to be made.

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**Note:** We recommend that you set your database to UTF8.

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7. Login to SQL\*Plus as SYSDBA and execute INSTALL\_DIR/create\_db/crdb1.sql. Review crdb1.log for errors and correct as needed.
8. Login to SQL\*Plus as SYSDBA and execute INSTALL\_DIR/create\_db/crdb2.sql. Review crdb2.log for errors and correct as needed.
9. Login to SQL\*Plus as SYSDBA and execute INSTALL\_DIR/create\_db/crdb3.sql. Review JServer.log, context.log and xdb\_protocol.log for errors and correct as needed.
10. Configure the listener. The RMS application uses external procedure calls. Therefore, the listener.ora and tnsnames.ora files must be configured properly. Refer to Appendix B.

## Insert Secondary Language Data

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**Note:** These scripts are only for customers who wish to have a primary language of English and a secondary language of any combination of the following: German, Spanish, French, Korean, Brazilian Portuguese, Japanese, Simplified Chinese or Traditional Chinese. The scripts are UTF-8 encoded. We recommend installing them into a database that has been set to UTF-8.

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1. Change directories to `INSTALL_DIR/data/lang`
2. Set the sqlplus session so that the encoding component of the `NLS_LANG` is UTF8. For example `AMERICAN_AMERICA.UTF8`
3. Log into sqlplus as `RMS12DEV` and run the following command:  
`SQL> @rms12sec_<lang>.sql`
4. Check the log file `rms12sec_<lang>.log` for any errors.
  - `<lang>` is the country code for the language you wish to install.
  - all - all the secondary languages
  - de - German
  - es - Spanish
  - fr - French
  - ja - Japanese
  - ko - Korean
  - ptb - Brazilian Portuguese
  - zhs - Simplified Chinese
  - zht - Traditional Chinese

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**Note:** Multiple secondary languages can be added to a primary language install of English.

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## Insert Primary Language Data

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**Note:** These scripts are only for customers who wish to have a primary language of one of the following: German, Spanish, French, Korean, Brazilian Portuguese, Japanese, Simplified Chinese or Traditional Chinese. . The scripts are UTF-8 encoded. We recommend installing them into a database that has been set to UTF-8.

The following scripts will prompt for a country code and a currency code. Make sure you use either a 2 or 3 letter country code based on what was chosen previously.

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1. Change directories to `INSTALL_DIR/data/lang`
2. Set the sqlplus session so that the encoding component of the `NLS_LANG` is UTF8. For example `AMERICAN.AMERICA.UTF8`
3. Log into sqlplus as `RMS12DEV` and run the following command:  
`SQL> @rms12prim_<lang>.sql`
4. Check the log file `rms12prim_<lang>.log` for any errors.
  - `<lang>` is the country code for the language you wish to install.
  - `de` - German
  - `es` - Spanish
  - `fr` - French
  - `ja` - Japanese
  - `ko` - Korean
  - `ptb` - Brazilian Portuguese
  - `zhs` - Simplified Chinese
  - `zht` - Traditional Chinese

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**Note:** Only one language can be set as the primary language for the system.

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