Oracle® Retail Data Warehouse

Installation Guide
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Oracle® Retail Data Warehouse Installation Guide, Release 13.0.5

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Primary Author: Donna Linde

Contributors: Nathan Young

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Contents

Send Us Your Comments ..... **vii**

Preface ..... **ix**

Audience ix
Related Documents ix
Customer Support ix
Review Patch Documentation ix
Oracle Retail Documentation on the Oracle Technology Network ix
Conventions x

1 Preinstallation Tasks **1**

Check for the Current Version of the Installation Guide 1
Implementation Capacity Planning 1
Check Database Server Requirements 2
Verify Single Sign-On 3
Check Web Browser and Client Requirements 3
Supported Oracle Retail Products 4
Supported Oracle Retail Integration Technologies 4
Additional Oracle Technologies 4
Create Staging Directory for RDW Database Schema Patch 4
Create Staging Directory for RDW Application Server Files 4

2 Patch RDW Database **5**

RDW DDL 5
Create Time in RDW 5
Update RDW Data 5
Update RDW Language Data 6
Update RETL Scripts 6

3 Oracle BI Infrastructure Installation and Configuration Tasks **7**

Install Oracle Business Intelligence Enterprise Edition 7
Install RDW 13.0.5 Repository and Set up Database Connection 7
Create Staging Directory for RDW Oracle BI EE Files 7
Installing the Repository 7
Set Up the Database Connection 8

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Oracle Retail Data Warehouse Installation Guide, Release 13.0.5

Oracle welcomes customers' comments and suggestions on the quality and usefulness of this document.

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?
- Does the structure of the information help you with your tasks?
- Do you need different information or graphics? If so, where, and in what format?
- 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).

> **Note:** Before sending us your comments, you might like to check that you have the latest version of the document and if any concerns are already addressed. To do this, access the new Applications Release Online Documentation CD available on My Oracle Support and www.oracle.com. It contains the most current Documentation Library plus all documents revised or released recently.

Send your comments to us using the electronic mail address: retail-doc_us@oracle.com

Please give your name, address, electronic mail address, and telephone number (optional).

If you need assistance with Oracle software, then please contact your support representative or Oracle Support Services.

If you require training or instruction in using Oracle software, then please contact your Oracle local office and inquire about our Oracle University offerings. A list of Oracle offices is available on our Web site at www.oracle.com.

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

You can find more information about this product in these resources:

- *Oracle Retail Data Warehouse Release Notes*
- *Oracle Retail Data Warehouse Data Model*

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, 13.1.2). If you are installing the base release and 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.

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

(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
```

1

Preinstallation Tasks

Check for the Current Version of the Installation Guide

Corrected versions of Oracle Retail installation guides may be published whenever critical corrections are required. For critical corrections, the rerelease of an installation guide may not be attached to a release; the document will simply be replaced on the Oracle Technology Network Web site.

Before you begin installation, check to be sure that you have the most recent version of this installation guide. Oracle Retail installation guides are available on the Oracle Technology Network at the following URL:

http://www.oracle.com/technology/documentation/oracle_retail.html

An updated version of an installation guide is indicated by 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 an installation guide with part number E123456-**01**.

If a more recent version of this installation guide is available, that version supersedes all previous versions. Only use the newest version for your installation.

Implementation Capacity Planning

There is significant complexity involved in the deployment of Oracle Retail applications, and capacity planning is site specific. Oracle Retail strongly suggests that before installation or implementation you engage your integrator (such as the Oracle Retail Consulting team) and hardware vendor to request a disk sizing and capacity planning effort.

Sizing estimates are based on a number of factors, including the following:

- Workload and peak concurrent users and batch transactions
- Hardware configuration and parameters
- Data sparcity
- Application features utilized
- Length of time history is retained

Additional considerations during this process include your high availability needs as well as your backup and recovery methods.

Check Database Server Requirements

General Requirements for a database server running RDW include:

Supported on 10gR2	Versions Supported:
Database Server OS	OS certified with Oracle Database 10gR2 and 11gR2 Enterprise Edition. Options are: ▪ AIX 5.3 ▪ AIX 6.1 (Actual hardware or LPARs) ▪ Solaris 10 Sparc (Actual hardware or Logical Domains) ▪ Oracle Linux 4 Update 5 for x86-64 (Actual hardware or Oracle virtual machine) ▪ Red Hat Enterprise Linux 4 Update 5 (RHEL 4.5) for x86-64 (Actual hardware or Oracle virtual machine) ▪ Oracle Linux 5 Update 3 for x86-64 (Actual hardware or Oracle virtual machine) ▪ Red Hat Enterprise Linux 5 Update 3 (RHEL 5.3) for x86-64 (Actual hardware or Oracle virtual machine) ▪ HP-UX 11.23 (Integrity 64-bit) ▪ HP-UX 11.31 (Integrity 64-bit)
Database Server (10gR2)	Oracle Database 10g Release 2 Enterprise Edition (10.2.0.5 patchset required) with the following components: ▪ Oracle Database 10g ▪ Oracle Partitioning ▪ Oracle Net Services ▪ Oracle Call Interface (OCI) ▪ Oracle Programmer ▪ Oracle XML Development Kit ▪ Companion CD **Patches:** ▪ 10.2.0.5 patchset: 8202632 **Others components:** ▪ Perl compiler 5.0 or later ▪ X-Windows interface ▪ ANSI compliant C compiler (certified with OS and database version)

Supported on 10gR2	Versions Supported:
Database Server (11gR2)	Oracle Database 11g Release 2 (11.2.0.1) Enterprise Edition with the following components: ▪ Oracle Partitioning ▪ Example CD **Patches:** ▪ 9582272 - ORA-600 [KKDLREADONDISKDEFVAL: ERROR] OCCURS WHEN ALTER TRIGGER IS EXECUTED. ▪ 9130054 - MASSIVE ORA-2051 SIGNALLED DURING SOA TEST AGAINST 11.2.0.1/2 DATABASE ▪ 9932143 - [CTS] 3 FAILURES IN JMS/AQ RUN DIDN'T GET EXPECTED MSG BACK AND REDELIVERED FLAG ▪ 9010222 - APPS ST 11G ORA-00600 [KKSFBC-REPARSE-INFINITE-LOOP]. ▪ 9100882: SOA: ORA-600 [KGHFRE3] SIGNALLED ▪ 9861859 - ORA-600 [kkmupsViewDestFro_4] can occur parsing a MERGE statement with join elimination happening. ▪ 9367425 -- PROCESS CRASHED WHEN USING 11GR2 JDBC/OCI ▪ 9495959 -- HANG WHEN TWO THREADS TRY TO CREATE THE ENV HANDLE AT THE SAME **Note:** Patches 9367425 and 9495959 must be applied together. **Others components:** ▪ Perl compiler 5.0 or later ▪ X-Windows interface ▪ ANSI compliant C compiler (certified with OS and database version)

Verify Single Sign-On

If a Single Sign-On is to be used, verify the Oracle Infrastructure Server 10g version 10.1.2.2 server has been installed. Verify the Mid-Tier server hosting Oracle ForRDW is registered with the Infrastructure Oracle Internet Directory.

Check Web Browser and Client Requirements

General requirements for client running RDW 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	JRE 1.4.1+
Browser	Microsoft Internet Explorer version 7.0

Supported Oracle Retail Products

Requirement	Version
Oracle Retail Merchandising System (RMS)/Oracle Retail Oracle Retail Sales Audit (ReSA)	13.0.5
Oracle Retail Invoice Matching (ReIM)	13.0.5
Oracle Retail Price Management (RPM)	13.0.5
Oracle Retail Merchandise Financial Planning (MFP)	13.0

Supported Oracle Retail Integration Technologies

Integration Technology	Version
Oracle Retail Extract, Transform and Load (RETL)	13.0.4

Additional Oracle Technologies

Integration Technology	Version
Oracle Business Intelligence Standard EditionOne	10.1.3.4.0
Oracle Business Intelligence Enterprise Edition	10.1.3.4.0

Create Staging Directory for RDW Database Schema Patch

To create a staging directory for RDW database schema patch, do the following.

1. Log into the database server as oretail.
2. Create a staging directory for the RDW database schema patch.
3. Copy the rdw13.0.5-code.zip and rdw13.0.5-db.zip files from the RDW 13.0.5 release to the staging directory. This is referred to as DB_PATCH_DIR when installing database software.
4. Change directories to DB_PATCH_DIR and extract the rdw13.0.5-code.zip and rdw13.0.5-db.zip files.

Create Staging Directory for RDW Application Server Files

To create a staging directory for RDW application server files, do the following.

1. Log into the application server as the oretail user.
2. Create a staging directory for the RDW application patch files.
3. Copy the file rdw13.0.5-metadata.zip from the RDW 13.0.5 release to staging directory. This will be referred to as APP_PATCH_DIR when installing application software.
4. Change directories to APP_PATCH_DIR and extract the file rdw13.0.5-metadata.zip.

2

Patch RDW Database

Before you apply the RDW 13.0.5 patch, do the following.

- Make a backup of all your objects and database schema.
- Check that RMS 13.0.5 is installed.
- Review the enclosed RDW 13.0.5 Patch Release Notes (rdw-1305-rn.pdf).
- Review each of the enclosed defect documents.

Before copying over any files, do the following.

- 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 RDW13DM as the Oracle owning schema.

RDW DDL

> **Note:** In the STAGING_AREA/ddl/dm/part/data_def there is a file that contains sample data for partitioing PRICING_ITEM_DAY_DM table. If you are installing RDW for the first time, use this corrected sample file to replace the original one. The original file had a missing/incomplete last line/end of file.

Create Time in RDW

> **Note:** In the STAGING_AREA/install there is a file called cr_time_g.c that should be used if installing RDW for the first time. Replace the base RDW 13.0 cr_time_g.c with the one shipped in this patch before installing RDW 13.0.x for the first time. Refer to the base install guide for additional instructions.

Update RDW Data

To update RDW data, do the following.

1. Change directories to STAGING_AREA/dbasql.
2. Log in to SQL*Plus as RDW13DM and run the following command:
   ```
   SQL> @patch1305ctl.sql
   ```
3. Check the log file patch1305ctl.log for any errors.

Update RDW Language Data

To update RDW language data, do the following.

1. Change directories to STAGING_AREA/install.
2. Set the SQL*Plus session so that the encoding component of the NLS_LANG is UTF8. For example,AMERICAN_AMERICA.UTF8
3. Log in to SQL*Plus as RDW13DM and run the following command:

   ```
   SQL> @c9297572_rdw_13_0.5_supplier_parent_<lang>.SQL
   ```

   - <lang> is the country code for the language you wish to install.
   - DE – German
   - ES– Spanish
   - FR – French
   - IT - Italian
   - JA – Japanese
   - KO – Korean
   - PT-BR – Brazilian Portuguese
   - RU - Russian
   - ZH – Simplified Chinese
   - ZH-TW – Traditional Chinese

Update RETL Scripts

To update RETL scripts, do the following.

1. Change directories to STAGING_AREA/rfx/src.
2. Copy all the files from this directory to INSTALL_DIR/retl/rfx/src.

   ```
   cp -R * INSTALL_DIR/retl/rfx/src
   cp –R * INSTALL_DIR/retl/rfx/lib
   ```

3

Oracle BI Infrastructure Installation and Configuration Tasks

This chapter provides general installation instructions and recommended configuration considerations for Oracle Business Intelligence Enterprise Edition (BI EE).

Install Oracle Business Intelligence Enterprise Edition

For step-by-step instructions on how to install Oracle BI, see the Installing Oracle BI EE Infrastructure chapter of the *Oracle Business Intelligence Infrastructure Installation and Configuration Guide*.

> **Note:** You must complete all the steps described in the Patch RDW Database chapter of this document before performing the following steps.

Install RDW 13.0.5 Repository and Set up Database Connection

Installing the RDW repository and setting up the database connection requires the following steps.

Create Staging Directory for RDW Oracle BI EE Files

To create a staging directory for RDW Oracle BI EE files, do the following.

1. Log into the Oracle BI EE server as oretail.
2. Create a staging directory for the RDW Oracle BI EE files.
3. Copy the rdw13.0.5-metadata.zip file from the RDW 13.0.5 release to the staging directory. This is referred to as INSTALL_DIR.
4. Change directories to INSTALL_DIR and extract the rdw13.0.5-metadata.zip file. This creates an rdw/rpd/ subdirectory under INSTALL_DIR.

Installing the Repository

To install the respository, do the following.

1. Stop the Oracle BI Server service.

   > **Note:** The RDW.rpd file was generated from OBIEE 10.1.3.3.2. If your Oracle BI EE is not on this patch, issues may result when applying the RDW.rpd file.

2. Copy the Repository file (RDW.rpd) to the <BI_INSTALL_DIRECTORY>/OracleBI/server/Repositorydirectory from the staging directory "<INSTALL_DIR >/rdw/rpd".
3. Update the configuration file located at <BI_INSTALL_DIRECTORY>/Oracle BI/server/Config/NQSConfig.INI. Add a new line under the [REPOSITORY] section. For example:

```
 [ REPOSITORY ]
Star    =   RDW.rpd, DEFAULT;
```

4. Other default repositories should be commented out in the NQSConfig.INI. For example:

```
       [ REPOSITORY ]
Star   =   RDW.rpd, DEFAULT;
#Star  =   Paint.rpd, DEFAULT;
```

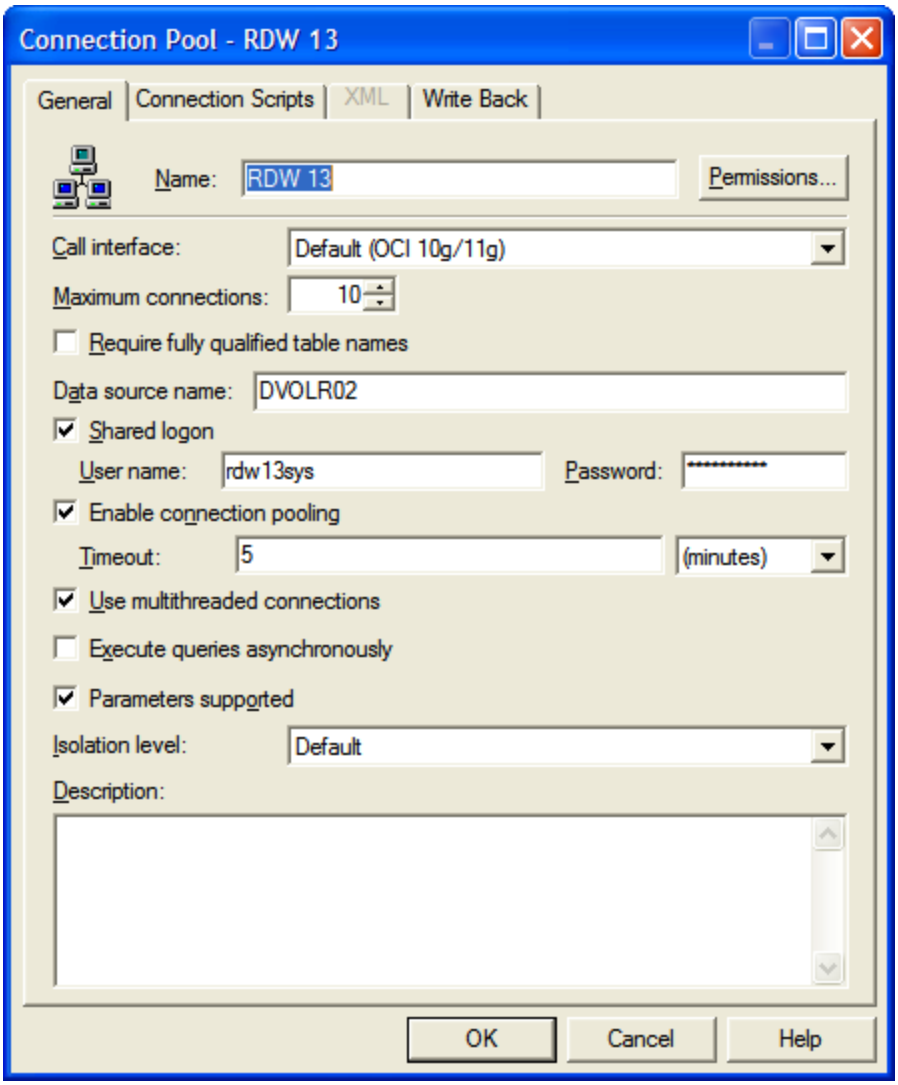
5. Save and close NQSConfig.INI.
6. Start Oracle BI Server service.

Set Up the Database Connection

Refer to the Configuring Data Sources for Oracle Business Intelligence chapter of the *Oracle Business Intelligence Infrastructure Installation and Configuration Guide* for additional details about the database connection.

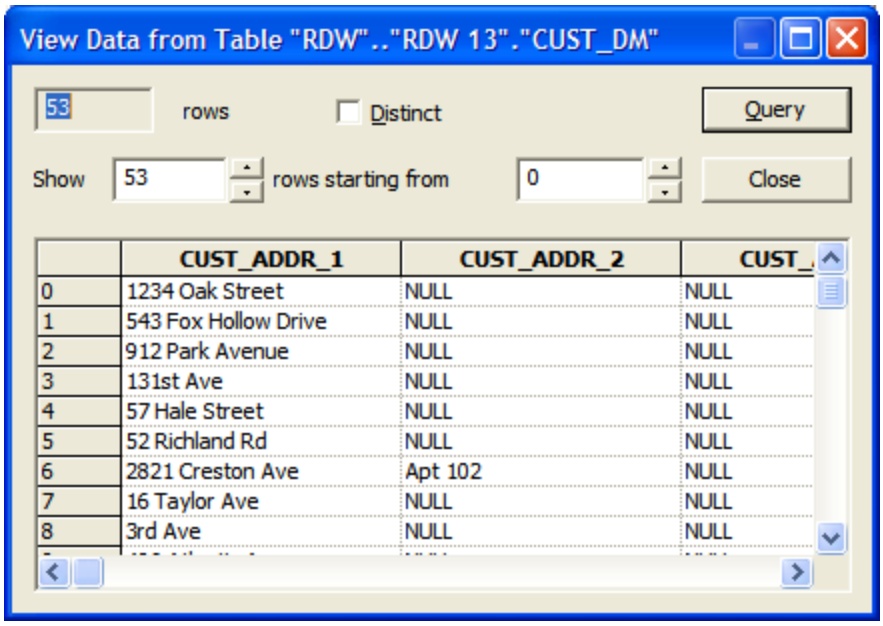
> **Note:** The screen shots in the steps below are samples only. The screens that appear depend on the set up of the user's system.

1. Open RDW.rpd using the Oracle BI Server Administration tool.
2. In the Physical Layer, open the Connection Pool (RDW13) and specify the database name, username, and password and click OK.



Connection Pool Editor

3. Save the RDW.rpd file.
4. Test the Database connection by right clicking on any of the tables in the Physical Layer and select View Data.



Successful Database Connection Confirmation