

Oracle® Retail Service Layer
Installation Guide
Release 12.0.11

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Oracle Retail Service Layer, Installation Guide, Release 12.0.11

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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?
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- Do you need different information or graphics? If so, where, and in what format?
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Preface

The Oracle Retail Service Layer development team delivers RSL “applications” only for non-Java/J2EE service providers such as RMS (Oracle Forms based). Other implementations of RSL exist but are bundled within other Oracle Retail J2EE applications and are installed as part of those applications. Currently RSL provides an implementation for integrating applications to RMS. RPM is the only Oracle Retail J2EE application that provides an implementation of RSL integrated with their application.

An application-specific version of RSL in a J2EE environment is referred to as RSLfor<App> (for this release only RSLforRMS). This application is packaged as an EAR file that must be deployed in an application server. Currently, RSL applications have been certified to install and execute in Oracle Application Server 10g.

Audience

This manual is designed for System Administrators, Developers, and Applications Support personnel installing the RSL for <app> implementation provided by the RSL team.

Related Documents

For more information, see the following documents in the Oracle Retail Service Layer Release 12.0.11 documentation set

- *Oracle Retail Service Layer 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, 12.0) or a later patch release (for example, 12.0.10). 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

Preinstallation Tasks

Prerequisites

Check Application Server Requirements

Supported on:	Versions Supported:
Application Server OS	OS certified with Oracle Application Server 10g 10.1.3.4. Options are: <ul style="list-style-type: none"> ▪ AIX 5.3 ▪ Solaris 10 SPARC (Actual hardware or Logical Domains) ▪ HP-UX 11.23 (PA-RISC) ▪ Oracle Enterprise Linux 4 Update 4 (OEL 4.4) for x86-64 ▪ Oracle Enterprise Linux 5 Update 3 (OEL 5.3) for x86-64 ▪ RedHat Enterprise Linux 4 Update 4 (RHEL 4.4) for x86-64 ▪ RedHat Enterprise Linux 5 Update 3 (RHEL 5.3) for x86-64
Application Server	Oracle Application Server 10g 10.1.3.4 with the following patches: <ul style="list-style-type: none"> ▪ 5632264 (NEED UPDATED TIMEZONE FILES (VERSION 4) FOR MORE DST RULE CHANGES) ▪ 4601861 (NEED TO EXPOSE NZOS_SETIOSEMANTICS)

Note: This release of RSLfor<App> is only supported in a managed OC4J instance as part of Oracle AS 10g. It is not supported on OC4J standalone

Check Oracle Retail Software Dependencies

Service Providing Application (e.g. RMS) must have all of the RSL components installed (such as Stored Procedures, Tables, and Oracle Objects). Refer to that application's installation guide for specifics.

Supported Oracle Retail Products

Integrates with:	Version
Oracle Retail Allocation (Client)	12.0.11
Oracle Retail Store Inventory Management (SIM)	12.0.11
Oracle Retail Merchandising System (RMS) (Server)	12.0.11
Oracle Retail Price Management (RPM) (Server)	12.0.11

RSLfor<App> Installation and Configuration

Note: In this document, OAS_INSTANCE_HOME refers to the home directory of the default J2EE component of the Oracle Application Server installation. For example, assuming that the Oracle Application Server was installed in the /u00/product/10.1.3.4/OracleAS_1 directory, the OAS_HOME variable will refer to the /u00/product/10.1.3.4/OracleAS_1/j2ee/home directory.

Note: In this document, OC4J_INSTANCE_HOME refers to the home directory of the J2EE component of the Oracle AS installation where the RSLfor<app> will be installed (which can be different from the OAS_INSTANCE_HOME described above). For example, assuming that the Oracle Application Server was installed in the /u00/product/10.1.3.4/OracleAS_1 directory and a oc4j instance called oc4j2 has been created, the OC4J_INSTANCE_HOME variable will refer to the /u00/product/10.1.3.4/OracleAS_1/j2ee/oc4j2 directory.

Preliminary Steps

Configuration scripts are provided to deploy and configure the RSLfor<app> application in Oracle AS, including its JDBC DataSource and shared library using the OC4J command-line utility.

1. Log into the UNIX server where Oracle Application Server is installed and determine where the RSL 12.0.11 application server file (rslpak12011for<app><app_version>_eng_ga.tar) will be installed. There should be a minimum of 25 MB disk space available for the application installation files.
2. Copy rslpak12011for<app><app_version>_eng_ga.tar located at CD/appserverunix to a newly created staging directory on the UNIX server.
3. Change directories to the location of rslpak12011for<app><app_version>_eng_ga.tar and extract this file. This creates two directories: /BOM and /RSL12011for<App>. RSL_INSTALL_HOME refers to the directory structure including the newly created /RSL12011for<App>

Example:
/u00/product/10.1.3.4/OracleAS_1/RSL12011forRMS

4. Edit the following parameters in the `RSL_INSTALL_HOME/oas/config/rsl-config.properties` file to configure Oracle AS for the RSLfor<App> application.
 - **OC4J_HOME:** Value of `OC4J_INSTANCE_HOME`
(for example, `/u00/product/10.1.3.4/OracleAS_1/j2ee/oc4j2`)
 - **JAVA_HOME:** Set to `$ORACLE_HOME/jdk` to use the Java 1.5 that comes with the OAS 10.1.3.4.
 - **is_managed_oc4j:** true if installing RSLfor<app> on Oracle Application Server; false if installing on an OC4J standalone instance.
 - **oc4j_host_name:** Host name of the server where Oracle AS is installed
(for example, `server`)
 - **opmn_request_port:** Management port number of the Oracle AS instance. Not required if RSLfor<app> is installed on a standalone version of OC4J
(for example, `6004`)
 - **oc4j_ormi_port:** ORMI port of the OC4J standalone instance. Not applicable if RSLfor<app> is installed on a managed OC4J instance.
(for example, `23791`)
 - **oas_instance_name:** The Oracle AS instance name. Not applicable if RSLfor<app> is installed on an OC4J standalone instance.
(for example, `OAS.server`)
 - **oc4j_instance_name:** OC4J instance name. Not applicable if RSLfor<app> is installed on an OC4J standalone instance.
(for example, `oc4j2`)
 - **oc4j_admin_user:** OC4J administrator account
(for example, `admin`)
 - **oc4j_admin_password:** Password for the OC4J administrator account
(for example, `admin`)
 - **datasourceJdbcUrl:** JDBC URL to the <App> database
(for example, `jdbc:oracle:thin:@dbserver01:1521:dbname`)
 - **datasourceUserId:** <App> schema username for the <App> database
(for example, `rms12dev`)
 - **datasourcePassword:** <App> schema user password for the <App> database
(for example, `retex`)
5. Export `PATH=$JAVA_HOME/bin:$PATH` so that the java used in the deployment is the java used in runtime of RSL 12.0.11.

Install RSLfor<App>

Ensure the Oracle Application Server is running. From `RSL_INSTALL_HOME/oas`, run the `rslinstall.sh` script. This performs the following:

- Creates a new directory under `$OC4J_INSTANCE_HOME` called `rsl-<app>`. This is referred to as `RSL_LIB`
- Copies the files from the `$RSL_INSTALL_HOME/properties` directory to this new `RSL_LIB` directory
- Installs the `rsl-<app>.ear` file
- Configures OC4J specific deployment files for the `rsl-<app>` application.
- Restarts the OC4J instance.

After the script has successfully run, verify that the application is running and the Oracle DataSource was configured properly by logging into the Oracle Enterprise Manager 10g Application Server Control.

RSL Deployment Command-Line Utility

rsladmin

The command-line utility performs server-side administrative functions for the RSLfor<App> application. This utility can be used following the initial installation of the RSLfor<App> as described in the previous chapter.

Commands

The following commands are available for this utility:

- **bounce:** Stops and restarts the application server.
- **stop:** Stops the application server.
- **start:** Starts the application server.
- **dellogs:** Deletes *.log from the application server's log directory.
- **install:** Installs the RSLfor<App> application.
- **uninstall:** Uninstalls the RSLfor<App> application.
- **reinstall:** Reinstalls the RSLfor<App> application.

Usage

Run this utility by using the following command:

```
rsladmin.sh <command>
```

Using the rsladmin Script for Reinstalling the RSLfor<App>

If the RSLfor<App> application had been previously installed, follow these steps to re-install it:

1. Edit the properties in the rsl-config.properties file for the instance of the application server where the application will be installed on. To generate the deployed ear file, run:

```
rsladmin.sh install
```
2. Uninstall the previous RSLfor<App> instance:

```
rsladmin.sh uninstall
```
3. Bounce the application server to accept the changes and start the RSLfor<App> application by running:

```
rsladmin.sh bounce
```

After installation, verify that the RSLfor<App> application is running by logging into the Oracle Enterprise Manager 10g Application Server Control.