# Oracle® Retail Service Layer

Installation Guide
Release 12.0.9

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ORACLE

Oracle® Retail Service Layer Installation Guide, Release 12.0.9

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(viii) the software component known as **Style Report™** developed and licensed by InetSoft Technology Corp. of Piscataway, New Jersey, to Oracle and imbedded in the Oracle Retail Value Chain Collaboration application.

(ix) the software component known as **DataBeacon™** developed and licensed by Cognos Incorporated of Ottawa, Ontario, Canada, to Oracle and imbedded in the Oracle Retail Value Chain Collaboration application.

# Contents

**Preface** ..... **vii**
Audience ..... vii
Related Documents ..... vii
Customer Support ..... vii
Review Patch Documentation ..... vii
Oracle Retail Documentation on the Oracle Technology Network ..... viii
Conventions ..... viii
**1 Preinstallation Tasks** ..... **1**
Prerequisites ..... 1
Check Application Server Requirements ..... 1
Check Oracle Retail Software Dependencies ..... 1
**2 RSLfor<*App*> Installation and Configuration** ..... **3**
Preliminary Steps ..... 3
Install RSLfor<*App*> ..... 5
**3 RSL Deployment Command-line Utility** ..... **7**
rsladmin ..... 7
Commands ..... 7
Usage ..... 7
Using the rsladmin Script for Reinstalling the RSLfor<*App*> ..... 7

# 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 12.0.9 documentation set

- Oracle Retail Service Layer Release Notes

## Customer Support

https://metalink.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

If you are installing the application for the first time, you install either a base release (for example, 13.0) or a later patch release (for example, 13.0.2). If you are installing a software version other than the base release, be sure to read the documentation for each patch release (since the base release) before you begin installation. Patch documentation can contain critical information related to the base release and code changes that have been made since the base release.

## Oracle Retail Documentation on the Oracle Technology Network

In addition to being packaged with each product release (on the base or patch level), all Oracle Retail documentation is available on the following Web site (with the exception of the Data Model which is only available with the release packaged code):

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

Documentation should be available on this Web site within a month after a product release. Note that documentation is always available with the packaged code on the release date.

## 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."

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

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

A hyperlink appears like this.

# 1

# Preinstallation Tasks

## Prerequisites

### Check Application Server Requirements

| Supported on: | Versions Supported: |
|---|---|
| Application Server OS | UNIX based OS certified with Oracle Application Server 10g 10.1.3.3.<br>▪ Oracle Enteprise Linux 4 Patch 5 for Linux x86-64<br>▪ Solaris 10 (SPARC)<br>▪ HP-UX 11.23 (Integrity)<br>▪ AIX 5.3 |
| Application Server | Oracle Application Server 10g 10.1.3.3 with the following patches:<br>▪ 5632264 (NEED UPDATED TIMEZONE FILES (VERSION 4) FOR MORE DST RULE CHANGES)<br>▪ 5398506 (RUNTIME EXCEPTION DID NOT ROLLBACK MESSAGE ON EGATE (SEEBEYOND) TOPIC) |

**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) | 12.0.9 |
| Oracle Retail Store Inventory Management (SIM) | 12.0.9 |
| Oracle Retail Merchandising System (RMS) (Server) | 12.0.9 |
| Oracle Retail Price Management (RPM) (Server) | 12.0.9 |

# 2

# 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/10.1.3.3/OracleAS_1 directory, the OAS_HOME variable will refer to the /u00/product/10.1.3.3/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/10.1.3.3/OracleAS_1 directory and a oc4j instance called oc4j2 has been created, the OC4J_INSTANCE_HOME variable will refer to the /u00/product/10.1.3.3/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 12.0.9 application server file (rslpak1209for<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 rslpak1209for<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 rslpak1209for<app><app_version>_eng_ga.tar and extract this file. This creates two directories: /BOM and /RSL1209for<App>. RSL_INSTALL_HOME refers to the directory structure including the newly created /RSL1209for<App>

   **Example:**
   /u00/product/10.1.3.3/OracleAS_1/RSL1209forRMS

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/10.1.3.3/OracleAS_1/j2ee/oc4j2)
   - **JAVA_HOME**; Set to $ORACLE_HOME/jdk to use the Java 1.5 that comes with the OAS 10.1.3.3.
   - **is_managed_oc4j**: true if installing RSLfor<app> on Oracle Application Server; false if installing on an OC4J standalone instance.
   - **oc4j_host_name**: Host name of the server where Oracle AS is installed (for example, server)
   - **opmn_request_port**: Management port number of the O racle AS instance. Not required if RSLfor<app> is installed on a standalone version of OC4J (for example, 6004)
   - **oc4j_ormi_port**: ORMI port of the OC4J standalone instance. Not applicable if RSLfor<app> is installed on a managed OC4J instance. (for example, 23791)
   - **oas_instance_name**: The O racle AS instance name. Not applicable if RSLfor<app> is installed on an OC4J standalone instance. (for example, OAS.server)
   - **oc4j_instance_name**: OC4J instance name. Not applicable if RSLfor<app> is installed on an OC4J standalone instance. (for example, oc4j2)
   - **oc4j_admin_user**: OC4J administrator account (for example, admin)
   - **oc4j_admin_password**: Password for the OC4J administrator account (for example, admin)
   - **datasourceJdbcUrl**: JDBC URL to the <*App*> database (for example, jdbc:oracle:thn:@dbserver01:1521:dbname)
   - **datasourceUserId**: <App> schema username for the <*App*> database (for example, rms12dev)
   - **datasourcePassword**: <App> schema user password for the <*App*> database (for example, retek)
5. Export PATH=$JAVA_HOME/bin:$PATH so that the java used in the deployment is the java used in runtime of RSL 12.0.9.

## 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.

# 3

# 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.