

# Retek® Service Layer™ 11.1.1

## Installation Guide



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# Chapter 1 – RSLfor<App> Installation and Configuration

## Introduction

RSL “applications” only exist for non-Java/J2EE service providers such as RMS (Oracle Forms based). Other implementations of RSL exist but are bundled within other Retek J2EE applications and are installed as part of those applications. Currently RSL provides an implementation for integrating applications to RMS. RPM is the only Retek 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’s OC4J 9.0.4 (Oracle Container for J2EE) and IBM’s WebSphere 5.1.

The following two sections describe the typical steps for deploying the RSLfor<app> application in OC4J 9.0.4 and WebSphere 5.1

## Installing RSLfor<app> in OC4J 9.0.4

### Prerequisites

- OC4J 9.0.4 instance properly installed and configured.
- Service Providing Application must have all of the RSL components installed (e.g. Stored Procedures, Tables, Oracle Objects). Refer to that application’s installation guide for specifics.
- RSL should be installed in its own OC4J instance and should no coexist with other Retek products running in the same OC4J installation.



**Note:** OAS\_HOME refers to the home directory of the J2EE component of the OC4J installation, for instance, assuming that OC4J was installed in the /u00/oc4j\_904 directory, the OAS\_HOME variable will refer to the /u00/oc4j\_904/j2ee/home directory.

## Preliminary Steps

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

1. Log into the UNIX server where OC4J 9.0.4 is installed as the retek user and determine where the RSL 11.1.0 application server file (rslpak1110for<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 rslpak1110for<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 rslpak1110for<app><app\_version>\_eng\_ga.tar and extract this file. This will create two directories: /BOM and /RSL1110for<App>. RSL\_INSTALL\_HOME refers to the directory structure including the newly created /RSL1110for<App>



**Example:** /u00/oc4j\_904/rsl11/RSL1110forRMS

4. Edit the following parameters in the RSL\_INSTALL\_HOME/oas/config/rsl-config.properties file to configure OC4J for the RSLfor<App> application.
  - **OAS\_HOME:** Value of OAS\_HOME  
(e.g. /u00/oc4j\_904/j2ee/home)
  - **oas\_host\_name:** Host name of the server where WebSphere is installed  
(e.g. server)
  - **oas\_ormi\_port:** ORMI port which the above serverName utilizes  
(e.g. 23791)
  - **oas\_user:** OC4J administrator account  
(e.g. admin)
  - **oas\_password:** Password for the OC4J administrator account  
(e.g. admin)
  - **datasourceJdbcUrl:** JDBC URL to the <App> database  
(e.g. jdbc:oracle:thin:@dbserver01:1521:dbname)
  - **datasourceUserId:** <App> schema username for the <App> database  
(e.g. rms11dev)
  - **datasourcePassword:** <App> schema user password for the <App> database  
(e.g. retek)



## Install RSLfor<App>

Ensure the OC4J Server is running. From RSL\_INSTALL\_HOME/oas, run the rsinstall.sh script. This will perform the following:

- Creates a new directory under \$OAS\_HOME called rsl-<app>. This will be 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
- Creates the JDBC DataSource and the RSL-LIB shared library
- Configures OC4J specific deployment files for the rsl-<app> application.
- Restarts OC4J

After the script has successfully run, verify that the application is running and the Oracle DataSource was configured properly by executing the OC4J command-line utility from the \$OAS\_HOME directory:

```
java -jar admin.jar ormi://<oas_host_name>:<oas_ormi_port> <oas_user> <oas_password> -  
application rsl-<app> -listDataSource
```

## Installing RSLfor<app> in WebSphere 5.1

### Prerequisites

- WebSphere 5.1 Application Server instance properly installed and configured.
- Service Providing Application must have all of the RSL components installed (e.g. Stored Procedures, Tables, Oracle Objects). Refer to that application's installation guide for specifics.
- RSL should be installed in its own WebSphere server and should not coexist with other Retek products running in the same WebSphere server. Multiple WebSphere servers running within a single WAS instance can be used.



**Note:** WAS\_HOME refers to the location where WebSphere is installed for RSL (e.g. /u00/webasp/WebSphere/AppServer). WAS\_INSTANCE\_HOME refers to the specific application server instance that the RSLfor<App> application will be deployed in. (e.g. /u00/webasp/WebSphere/rslddev). If the WebSphere server installation uses only one instance, then WAS\_HOME will be the same as WAS\_INSTANCE\_HOME.

## Preliminary Steps

Configuration scripts are provided to create and configure the RSLfor<app> application in WebSphere, including its JDBC DataSource and shared library using jacl scripts.

1. Log into the UNIX webserver where WebSphere 5.1 is installed as the retek user and determine where the RSL 11.1.0 application server file (rslpak1110for<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 rslpak1110for<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 rslpak1110for<app><app\_version>\_eng\_ga.tar and extract this file. This will create two directories: /BOM and /RSL1110for<App>. RSL\_INSTALL\_HOME refers to the directory structure including the newly created /RSL1110for<App>



**Example:** /u00/webasp/rsl11/RSL1110forRMS

4. Edit the following parameters in the RSL\_INSTALL\_HOME/was/config/rsl-config.properties file to configure WebSphere for the RSLfor<App> application.
  - **WAS\_HOME:** Value of WAS\_HOME  
(e.g. /u00/webasp/WebSphere/AppServer)
  - **WAS\_INSTANCE\_HOME:** Value of WAS\_INSTANCE\_HOME  
(e.g. /u00/webasp/WebSphere/AppServer)
  - **APP\_EAR:** Fully qualified path to the rsl-<app>.ear file, including the ear file  
(e.g. /u00/webasp/rsl11/RSL1110forRMS/ear/rsl-rms.ear)
  - **APP\_NAME:** Application name  
(e.g. rsl-rms)
  - **host\_name:** Host name of the server where WebSphere is installed  
(e.g. server)
  - **cell:** The cell name of the WebSphere instance where the RSLfor<App> application will be installed. The cell name can be determined by the name of the directory under WAS\_INSTANCE\_HOME/config/cells  
(e.g. serverxxxx)
  - **node:** Node name of the WebSphere instance where the RSLfor<App> application will be installed. The node name can be determined by the name of the directory under WAS\_INSTANCE\_HOME/config/cells/<cell name>/nodes  
(e.g. serverxxxx)
  - **serverName:** Server name within the WebSphere instance where the RSLfor<App> application will be installed. The server name can be determined by the name of the directory under WAS\_INSTANCE\_HOME/config/cells/<cell name>/nodes/<node name>/servers. The default server name is server1  
(e.g. server1)

- **was\_soap\_port:** SOAP port which the above serverName utilizes  
(e.g. 8880)
- **datasourceJarPath:** Path to and including the oracle driver file ojdbc14.jar. The directory structure for this path and the placement of the driver file is created by the script rslinstall.sh, so path does not exist yet. The path will be INSTANCE\_HOME/rsl-<app> when rslinstall.sh is run.  
(e.g. /u00/webasp/WebSphere/AppServer/rsl-rms/ojdbc14.jar)
- **datasourceJdbcUrl:** JDBC URL to the <App> database  
(e.g. jdbc:oracle:thin:@dbserver01:1521:dbname)
- **datasourceUserId:** <App> schema username for the <App> database  
(e.g. rms11dev)
- **datasourcePassword:** <App> schema user password for the <App> database  
(e.g. retek)
- **datasourceAlias:** Name of the Java 2 Connector Security Alias to be created for registering the user and password information for the <App> database. The following default setting must be used: datasourceAlias=RSLAlias
- **datasourceName:** Name given to the resource to be used when accessing the database. The following default setting must be used: datasourceName=Oracle Rsl Datasource
- **datasourceJndiName:** JNDI name for the datasource. The following default setting must be used: datasourceJndiName=jdbc/OracleRslIDs

### Install RSLfor<App>

Ensure the WebSphere Application Server is running. From RSL\_INSTALL\_HOME/was, run the rslinstall.sh script. This will perform the following:

- Creates a new directory under \$WAS\_HOME called rsl-<app>. This will be referred to as RSL\_LIB
- Copies the jar file from the \$RSL\_INSTALL\_HOME/rsl-<app>/oracle directory to this new RSL\_LIB directory
- Copies the files from the \$RSL\_INSTALL\_HOME/properties directory to this new RSL\_LIB directory
- Runs the configure.sh script from the \$RSL\_INSTALL\_HOME/was/config directory to create the JDBC DataSource and the RSL-LIB shared library
- Runs the rsladmin.sh script to install the rsl-<app>.ear file
- Restarts WebSphere

After the script has successfully run, verify that the application is running and the Oracle DataSource was configured properly by verifying the following information in the WebSphere Administration Console:

- **Application is running:** From the WebSphere Admin Console, click on Applications -> Enterprise Applications. If the application started it will show a green arrow next to the application name. If errors occurred, a red x will be shown next to the application name. Check the WebSphere log files (in the \$WAS\_INSTANCE\_HOME/logs/<server-name> directory) in order to troubleshoot the error.
- **Oracle DataSource:** From the WebSphere Admin Console, click Resources -> JDBC Providers. You will see “Oracle JDBC Thin Driver (XA)” as the available resource. All of the <App> DataSources are defined here. The “Oracle Rsl Datasource” is the DataSource that the RSL utilizes.

# Chapter 2 – 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 re-installing 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 following the steps described in the last chapter.