

**Oracle® Insurance Policy
Administration**

WebLogic Deployment
Installation Instructions – Step 2

Version 9.3.1.0

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INTRODUCTION

The Oracle Insurance Policy Administration (OIPA) application and the Oracle Insurance Rules Palette form a solution for configuring, managing and processing policy data. Both applications, along with the Web Application Utility, must be installed and then configured to work together. This install guide will cover step two of the installation process, where the OIPA application and the Web Application Utility are configured using Web Logic.

Please refer to the OIPA database installation instructions in the documentation library provided with the release to ensure your database is set up correctly.

Prerequisites

Before beginning the installation steps, you must have the following components:

- A server with either a Windows, Linux, Solaris or AIX operating system.
- WebLogic 11g (Version 10.3.2). It is recommended that the Sun JDK is used. This can be downloaded from the Oracle Technology Network at http://www.oracle.com/technology/software/products/middleware/htdocs/fmw_11_download.html.
- Administrative rights to the server.
- Oracle Insurance Rules Palette Media Pack V9.3.1 from E-Delivery.

INITIAL SYSTEM CONFIGURATION

IMPORTANT: These installation instructions are written with the assumption that you are using an Oracle database. If you are using SQL Server or DB2, then the steps will vary slightly.

Create a Directory for the Configuration Files

1. Create a directory on the WebLogic installation machine to store configuration files for the Oracle Insurance Policy Administration V9 system (i.e., /opt/oracle/server1).
2. Copy into this folder the following files from the Oracle Insurance Policy Administration V9.4.0 .zip file you downloaded from E-Delivery:

File	Description
PASJava.war	OIPA PASJava WAR file
PAS.properties	PASJava/OIPA settings. A description of the application settings is available on OTN in the OIPA documentation library.
PaletteConfig.war	Web Application Utility WAR file
PaletteWebApplication.properties	Web Application Utility properties file
APEMessages.properties	error messages
DocumentGeneratorMessages.properties	error messages
ExtensibilityMessages.properties	error messages
EXTMessages.properties	error messages
MathMessages.properties	error message
PASMessages.properties	error message
ResourceBundleMessages.properties	error message
SREMessages.properties	error message
UtilMessages.properties	error message
coherence-config.xml	Coherence configuration file
coherence-cache-config.xml	Coherence configuration file

3. If using an Oracle database, please skip this step and proceed to step 5. Create a lib directory and add the database driver (i.e., /opt/oracle/lib). The type of database you are using will determine the driver you need to download.
 - **SQL Server database** – download the **jtids.jar** file.
 - a. Download **jtids** from the following site: <http://sourceforge.net/projects/jtids/>.
 - b. Click **Download** on the top menu bar.
 - c. Click the **download** link for jtids (release 1.2.2).
 - d. Select the **jtids-1.2.2-dist.zip** file. Save the download .zip file to the lib directory you created (i.e., ../opt/oracle/lib).
 - e. Open the downloaded .zip file and extract the file **jtids-1.2.2** from the root of the .zip file.
 - f. Rename the file **jtids.jar**.
 - **DB2 database** – The three necessary .jar files (**db2jcc**, **db2jcc_license_cisuz**, and **db2jcc_license_cu**) are included with the purchase of the DB2 software. These files are not available for download. Contact your IT department if you need assistance locating these files.

Note: Each version of DB2 requires specific drivers. The files above correspond with DB2 9.1.

4. Identify the database type and platform in the PAS.properties file. The property setting must match the type of database being used. The two properties that are used to do this are:
 - application.databaseType
 - jpa.databasePlatform

Note: Refer to the PAS.properties document in the Oracle Insurance Policy Administration E21044-01 Documentation Library on the OTN for a complete list of all properties and allowed values.

5. If using a DB2 database, modify the PAS.properties file to include configuration for case-insensitive searching. If using an Oracle or Microsoft SQL Server database, please skip this step and proceed to step 6.
 - Modify the PAS.properties file to include the following line:

```
search.field.text.caseInsensitive=true
```

6. Copy the following .jar files to the WebLogic lib folder.
(i.e.,.../opt/Oracle/Middleware/Server/domainname/lib). These files are located in the **ext jars** folder in the .zip file you downloaded from E-Delivery.
 - antlr-2.7.6.jar
 - commons-collections.jar
 - commons-logging-1.1.jar
 - el-api.jar
 - log4j-1.2.9.jar
 - spring-agent.jar

CONFIGURING WEBLOGIC

To configure WebLogic use the WebLogic Administration Console. By default the port number is 7001 and `/console` is the context root. Example: <http://hostname:7001/console>

Create a Machine

1. Select **Environments>Machines>New**.
2. Enter the name for the machine.
3. Click **Finish**.

Creating and Configuring Servers

IMPORTANT: OIPA and the Web Application Utility can exist on the same WebLogic server if necessary.

Create the OIPA Server

1. Select **Environments>Servers>New**.
2. Enter the name for the server.
3. Set the listener port to a port that is not used by any other application.
4. Select **Finish**.

Create the Web Application Utility Server

1. Select **Environments>Servers>New**.
2. Enter the name for the server.
3. Set the listener port to a port that is not used by any other application.
4. Select **Finish**.

Add the OIPA Server to the Machine

1. Select **Environments>Machines**.
2. Select the machine that was created.
3. Select the **Servers** tab.
4. Select **Add**.
5. Select the name of the OIPA server created from the **Select a Server** drop-down box.
6. Click **Finish**.

Add the Web Application Utility Server to the Machine

1. Select **Environments>Machines**.
2. Select the machine that was created.
3. Select the **Servers** tab.
4. Select **Add**.
5. Select the name of the Web Application Utility server created from the **Select a Server** drop-down box.
6. Click **Finish**.

Configure the OIPA Server

1. Select **Environments>Servers**.
2. Select the OIPA server that was created.
3. Select the **Server Start** tab.
4. Specify the class path. The path names will vary depending on the configuration.

```
/opt/Oracle/Middleware/jdk160_11/lib/tools.jar:/opt/Oracle/Middleware/wlserv
er_10.3/server/lib/weblogic_sp.jar:/opt/Oracle/Middleware/wlserver_10.3/serv
er/lib/weblogic.jar:/opt/Oracle/OIPA/properties/:/opt/Oracle/OIPA/lib/common
s-logging-1.1.jar:/opt/Oracle/OIPA/lib/commons-
collections.jar:/opt/Oracle/OIPA/lib/antlr-
2.7.6.jar:/opt/Oracle/OIPA/lib/el-api.jar
```

5. Enter the following arguments. This will vary depending on the configuration.

```
-server -Xms512M -Xmx1024M -XX:PermSize=128M -XX:MaxPermSize=256M -
javaagent:/opt/Oracle/OIPA/lib/spring-agent.jar -
Dtangosol.coherence.cacheconfig=/opt/Oracle/OIPA/properties/coherence-cache-
config.xml -Dtangosol.pof.config=com-adminserver-pas-web-pof-config.xml -
Dtangosol.coherence.override=/opt/Oracle/OIPA/properties/coherence-
config.xml -Dweblogic.wsee.skip.async.response=true
```

6. Select **Save**.

Configure the Web Application Utility Server

1. Select **Environments>Servers**.
2. Select the Web Application Utility server that was created.
3. Select the **Server Start** tab.
4. Specify the class path. The path names will vary depending on the configuration.

```
/opt/Oracle/Middleware/jdk160_11/lib/tools.jar:/opt/Oracle/Middleware/wlserv
er_10.3/server/lib/weblogic_sp.jar:/opt/Oracle/Middleware/wlserver_10.3/serv
er/lib/weblogic.jar:/opt/Oracle/PaletteConfig/properties/:/opt/Oracle/db_dri
vers/ojdbc14.jar
```

Note: Make sure you are pointing to the correct directory for the Web Application Utility.

5. Enter the following arguments. This will vary depending on the configuration.

```
-server -Xms64M -Xmx64M
```

6. Select **Save**.

Creating Data Sources

Create the Data Source for ADMINSERVERDS

1. Select **Services>JDBC>Data Sources**.
2. In the configuration section on the right, select **New**.
3. In the JDBC Data Source Properties pane that appears:
 - Change the Name to ADMINSERVERDS
 - Change the JDNI Name to ADMINSERVERDS
 - Select the database type.
 - Select the driver type.
4. Select **Next**.
5. Select **Next** again when Transaction options are displayed.
6. In the Connection Properties pane:
 - Enter the **Database Name**.
 - Enter the **Host Name** of the database server.
 - Enter the **Port** number of the database server.
 - Enter the **Database User Name**. This can be obtained from the database administration who installed the databases.
 - Enter both **Password** entries. This can be obtained from the database administration who installed the databases.
 - Select **Next**.

Figure 1-1: Connection Properties Pane

The screenshot shows a 'Connection Properties' dialog box with the following fields and values:

- Database Name:** orcl
- Host Name:** localhost
- Port:** 1521
- Database User Name:** oipa
- Password:** (masked with four dots)
- Confirm Password:** (masked with four dots)

At the bottom, there are four buttons: Back, Next, Finish, and Cancel.

- Test the database connection.
- Select **Next**.
- In the **Select Targets** pane that appears, check the box for both servers created. This links the data source to the servers that were created.
- Select **Finish**.

Create the Data Source for ADMINSERVERRESOURCEDS

1. Select **Services>JDBC>Data Sources**.
2. In the configuration section on the right, select **New**.
3. In the JDBC Data Source Properties pane that appears:
 - Change the Name to ADMINSERVERRESOURCEDS.
 - Change the JDNI Name to ADMINSERVERRESOURCEDS.
 - Select the database type.
 - Select the driver type.
4. Select **Next**.
5. Select **Next** again when Transaction options are displayed.
6. In the Connection Properties pane:
 - Enter the **Database Name**.
 - Enter the **Host Name** of the database server.
 - Enter the **Port** number of the database server.
 - Enter the **Database User Name**. This can be obtained from the database administrator who installed the databases.
 - Enter both **Password** entries. This can be obtained from the database administrator who installed the databases.
 - Select **Next**.
 - Test the database connection.
 - Select **Next**.
 - In the **Select Targets** pane that appears, check the box for both servers created. This links the data source to the servers that were created.
 - Select **Finish**.

Create the Data Source for ADMINSERVERSEARCHDS

1. Select **Services>JDBC>Data Sources**.
2. In the configuration section on the right, select **New**.
3. In the JDBC Data Source Properties pane that appears:
 - Change the Name to ADMINSERVERSEARCHDS.
 - Change the JDNI Name to ADMINSERVERSEARCHDS.
 - Select the database type.
 - Select the driver type.
4. Select **Next**.
5. Select **Next** again when Transaction options are displayed.
6. In the Connection Properties pane:
 - Enter the **Database Name**.
 - Enter the **Host Name** of the database server.
 - Enter the **Port** number of the database server.
 - Enter the **Database User Name**. This can be obtained from the database administrator who installed the databases.
 - Enter both **Password** entries. This can be obtained from the database administrator who installed the databases.
 - Select **Next**.
 - Test the database connection.
 - Select **Next**.
 - In the **Select Targets** pane that appears, check the box for both servers created. This links the data source to the servers that were created.
 - Select **Finish**.

Create Data Source for ADMINSERVERREADONLYDS

1. Select **Services>JDBC>Data Sources**.
2. In the configuration section on the right, select **New**.
3. In the JDBC Data Source Properties pane that appears:
 - Change the Name to ADMINSERVERREADONLYDS.
 - Change the JDNI Name to ADMINSERVERREADONLYDS.
 - Select the database type.
 - Select the driver type.
4. Select **Next**.
5. Select **Next** again when Transaction options are displayed.
6. In the Connection Properties pane:
 - Enter the **Database Name**.
 - Enter the **Host Name** of the database server.
 - Enter the **Port** number of the database server.
 - Enter the **Database User Name** for the readonly user. This can be obtained from the database administrator who installed the databases.
 - Enter both **Password** entries. This can be obtained from the database administrator who installed the databases.
 - Select **Next**.
 - Test the database connection.
 - Select **Next**.
 - In the **Select Targets** pane that appears, check the box for both servers created. This links the data source to the servers that were created.
 - Select **Finish**.

Deploy OIPA Application

1. Using the navigation tree on the left, select **Deployments**.
2. In the configuration section on the right, select **Install**.
3. In the **Install Application Assistant**:
 - Locate **PASJava.war** file.
 - Select **Next**.
 - For the **Targeting Style** keep the default of **Install this deployment as an application**.
 - Select **Next**.
 - For the **Deployment Target** select the checkbox for the server that will host the OIPA application.
 - Select **Next**.
 - Select **Finish**.
4. Start PASJava.
 - Select **Deployments**.
 - Select the checkbox for **PASJava**.
 - Select **Start**.
 - Select **Servicing all requests**.

Deploy the Web Application Utility

1. Using the navigation tree on the left, select **Deployments**.
2. In the configuration section on the right, select **Install**.
3. In the **Install Application Assistant**:
 - Locate the **PaletteConfig.war** file. This file is in the Oracle Insurance Rules Palette V9.3.0 Media Pack in the Web Application Utility folder.
 - Select **Next**.
 - For the **Targeting Style** keep the default of **Install this deployment as an application**.
 - Select **Next**.
 - For the **Deployment Target** select the checkbox for the server that will host the Web Application Utility.
 - Select **Next**.
 - Select **Finish**.
4. Start PaletteConfig.
 - Select **Deployments**.
 - Select the checkbox for **PaletteConfig**.
 - Select **Start**.
 - Select **Servicing all requests**.

Start the Servers

1. Select **Environment>Servers**.
2. In the configuration section on the right, select **Control** tab.
3. Select the checkbox next to the two servers created.
4. Select the **Start** option.

IMPORTANT: When configuring the rules palette environment use the host name and port number of the PaletteConfig server. The Web Application Utility must always be running in order for users to access the Rules Palette.

TESTING THE DEPLOYMENTS

OIPA Deployment

1. Open a new Internet Explorer window.
2. Navigate to <http://hostname:port/PASJava/>.
3. Using the login screen that appears:
 - Type **install** for the **Client ID**.
 - Type **install** for the **Password**.
 - Select **Login**.

Web Application Utility Deployment

1. Open a new Internet Explorer window.
2. Navigate to <http://hostname:port/PaletteConfig/>.
3. Using the login screen that appears:
 - Type **admin** for the **Client ID**.
 - Type **admin** for the **Password**.
 - Select **Login**.