

**Oracle® Insurance Policy
Administration**

WebLogic Deployment

Installation Instructions – Step 2

Version 9.4.0.0

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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 the database is set up correctly.

Prerequisites

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

- A server with a Windows or Linux operating system.
- WebLogic 11g (Version 10.3.3). 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 Policy Administration v9.4.0 Media Pack from e-Delivery.
- Oracle Insurance Rules Palette V9.4.0 Media Pack from e-Delivery.

INITIAL SYSTEM CONFIGURATION

Database Driver Setup

1. Create a directory on the WebLogic installation machine to store database driver jar files for OIPA (i.e., /opt/oracle/db_drivers/ or C:\oracle\db_drivers\).
2. Copy the database drivers for your database into this folder.
 - **Oracle 11.2** – The necessary driver, **ojdbc-11.2.0.2.jar**, is included in the **libs** folder of the OIPA Media Pack.
 - **Microsoft SQL Server 2005** – download the latest **jtds.jar** file.
 - a. Download **jtds** from the following site: <http://sourceforge.net/projects/jtds/>.
 - b. Click the green **Download** box on the right side of the screen. A pop-up window will open.
 - c. Save the download .zip file to the lib directory you created (i.e., /opt/oracle/lib).
 - d. Open the downloaded .zip file and extract the file **jtds-1.2.5** from the root of the .zip file.
 - e. Rename the file **jtds.jar**.
 - **IBM DB2** – The two necessary .jar files (**db2jcc** 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 9.7.

OIPA Setup

1. Create a directory on the WebLogic server to store various configuration files for OIPA (i.e., /opt/oracle/oipa/ or C:\oracle\oipa\).
2. Create subfolders inside the folder from Step 1 called **conf**, **libs** and **war**.
3. Copy the **PASJava-weblogic.war** file into the **war** subfolder.
4. Copy the following files into the **conf** subfolder:
 - AdminServerMessages.properties
 - APESMessages.properties
 - coherence-cache-config.xml
 - coherence-config.xml
 - DocumentGeneratorMessages.properties
 - ExtensibilityMessages.properties
 - EXTMessages.properties
 - MathMessages.properties
 - PAS.properties
 - PASMessages.properties
 - ResourceBundleMessages.properties
 - SREMessages.properties
 - UtilMessages.properties
5. 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 E18894_01 Documentation Library on the OTN for a complete list of all properties and allowed values.

6. Copy the following files into the **libs** subfolder:
 - antlr-2.7.7.jar
 - commons-collections-3.2.1.jar
 - commons-logging-1.1.1.jar
 - el-api-1.0.jar
 - log4j-1.2.16.jar
 - spring-agent-2.5.6.SEC02.jar
7. Identify the default locale in the PAS.properties file. The locale selected will determine the translation that is loaded in the database for OIPA when it launches.
 - application.defaultLocale
8. If using a DB2 database, you will need to 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
```

Web Application Utility Setup

1. Create a directory on the WebLogic server to store various configuration files for the Web Application Utility (i.e., /opt/oracle/paletteconfig/ or C:\oracle\paletteconfig\).
2. Create subfolders inside the folder from Step 1 called **conf**, **libs**, **uploads** and **war**.
3. Copy the **PaletteConfig.war** file into the **war** subfolder.
4. Copy the **PaletteWebApplication.properties** file into the **conf** subfolder.
5. Open the PaletteWebApplication.properties file and edit the **download.dir** property to point to the **uploads** subfolder created in Step 2.
6. Copy the following file into the **libs** subfolder:
 - el-api-1.0.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>

Note: When selecting a menu option in the WebLogic Administrative Console, the names may differ depending on whether WebLogic is used in development mode or production mode.

Create a Machine

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

Create and Configure OIPA Server

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

Create the OIPA Server

1. Select **Environments>Servers**.
2. Click **New**.
3. Enter OIPA for the name of the server.
4. Set the listener port to a port that is not used by any other application.
5. Click **Next**.
6. 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**.

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/wlserver_10.3/server/lib/weblogic.jar:/opt/oracle/oipa/conf:/opt/oracle/oipa/libs/antlr-2.7.7.jar:/opt/oracle/oipa/libs/commons-collections-3.2.1.jar:/opt/oracle/oipa/libs/commons-logging-1.1.1.jar:/opt/oracle/oipa/libs/el-api-1.0.jar:/opt/oracle/oipa/libs/log4j-1.2.16.jar
```

Note: If using WebLogic on Windows, the separator for files/folders in the classpath is a semicolon.

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/libs/spring-agent-2.5.6.SEC02.jar -
Dtangosol.coherence.cacheconfig=/opt/oracle/oipa/conf/coherence-cache-
config.xml -Dtangosol.pof.config=com-adminserver-pas-web-pof-config.xml -
Dtangosol.coherence.override=/opt/oracle/oipa/conf/coherence-config.xml -
Dweblogic.wsee.skip.async.response=true
```

6. Select **Save**.

Create and Configure Web Application Utility Server

Create the Web Application Utility Server

1. Select **Environments>Servers**.
2. Click **New**.
3. Enter PaletteConfig for the name of the server.
4. Set the listener port to a port that is not used by any other application.
5. Click **Next**.
6. Select **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 Web Application Utility Server

1. Select **Environments>Servers**.
2. Select the PaletteConfig 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/wlserver_10.3/server/lib/weblogic.jar:/opt/oracle/pal
etteconfig/conf:/opt/oracle/db_drivers/ojdbc11.2.0.2.jar:/opt/oracle/palett
econfig/libs/el-api-1.0.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>Data Sources for WebLogic 11g (10.3)**.
2. In the configuration section on the right, select **New**.
3. In the JDBC Data Source Properties pane that appears:
 - Change the Name. This name can be anything, but has to be unique for the entire WebLogic server. If you have more than one OIPA instance on the server, each instance should have a unique name.
 - Change the JDNI Name to ADMINSERVERDS. This name cannot be anything other than ADMINSERVERDS.
 - Select the Oracle database type.
 - Click **Next**.
 - Keep the default driver.
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

What is the name of the database you would like to connect to?

Database Name:

What is the name or IP address of the database server?

Host Name:

What is the port on the database server used to connect to the database?

Port:

What database account user name do you want to use to create database connections?

Database User Name:

What is the database account password to use to create database connections?

Password:

Confirm Password:

- Test the database connection.
- Select **Next**.
- In the **Select Targets** pane that appears, check the box for the OIPA application server. 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. This name can be anything, but has to be unique for the entire WebLogic server. If you have more than one OIPA instance on the server, each instance should have a unique name.
 - 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. This name can be anything, but has to be unique for the entire WebLogic server. If you have more than one OIPA instance on the server, each instance should have a unique name.
 - 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-weblogic.war** file.
 - Click **Next**.
 - For the **Targeting Style** keep the default of **Install this deployment as an application**.
 - Click **Next**.
 - For the **Deployment Target** select the checkbox for the server that will host the OIPA application.
 - Click **Next**.
 - Change the application name if needed.
 - Click **Next**.
 - Select **Finish**.

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 V9.4.0 Media Pack in the PaletteConfig folder.
 - Click **Next**.
 - For the **Targeting Style** keep the default of **Install this deployment as an application**.
 - Click **Next**.
 - For the **Deployment Target** select the checkbox for the server that will host the Web Application Utility.
 - Click **Next**.
 - Change the application name if needed.
 - Click **Next**.
 - Select **Finish**.

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 OIPA and PaletteConfig servers.
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/>. If you change the context name, make sure that name is reflected in the URL.
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/>. The only context name supported is PaletteConfig.
3. Using the login screen that appears:
 - Type **admin** for the **Client ID**.
 - Type **admin** for the **Password**.
 - Select **Login**.