

Oracle® Insurance Policy Administration

WebLogic Deployment

Installation Instructions – Step 2 Version 10.0.0.0

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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, in which 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.

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Oracle customers have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

Prerequisites

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

- A server with a Windows or Linux operating system.
- WebLogic 11g (Version 10.3.6.0). It is recommended that the latest update of the Oracle 1.7 JDK be used. This can be downloaded from the Oracle Technology Network.
- Administrative rights to the server.
- Oracle Insurance Policy Administration v10.0.0.0 Media Pack from The Oracle Software Delivery Cloud.
- Oracle Insurance Rules Palette V10.0.0.0 Media Pack from The Oracle Software Delivery Cloud. The Web Application Utility files are included in this Media Pack in the PaletteConfig folder.



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 directory.
 - Oracle 11.2 The necessary driver, ojdbc-11.2.0.2.jar, is included in the libs directory of the OIPA Media Pack.
 - Microsoft SQL Server 2008 download the latest jtds.jar file.
 - a. Download jtds from the following site: <u>http://sourceforge.net/projects/jtds/</u>.
 - 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-1.2.6** 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 10.1.



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 subdirectories inside the directory from Step 1 called **conf**, **libs** and **war**.
- 3. Copy **PASJava-weblogic.war** file from the OIPA distribution zip file into the **war** subdirectory and rename to **PASJava.war**

Note: Extension classes/jars developed using OIPA extension interfaces should be copied to PASJava-weblogic.war/WEB-INF/lib before copying **PASJava-weblogic.war** to the war subdirectory. This is required for the extensions to work.

- 4. Copy the following files from the properties files directory into the conf directory:
 - coherence-cache-config.xml
 - coherence-config.xml
 - PAS.properties
- 5. Copy the following files from the **ext jars** directory into the **libs** directory:
 - antlr-3.4.jar
 - commons-collections-3.2.1.jar
 - commons-logging-1.1.1.jar
 - el-api-2.2.jar
 - log4j-1.2.16.jar
 - spring-instrument-3.1.0.RELEASE.jar
- 6. Download aspectj-1.6.11.jar from http://www.eclipse.org/downloads/download.php?file=/tools/aspectj/aspectj-1.6.11.jar
 - 1. Open aspectj-1.6.11.jar with an unzipping software and retrieve aspectjrt.jar and aspectjweaver.jar from the lib folder.
 - 2. Copy aspectjrt.jar and aspectjweaver.jar into libs sub-directory.
- 7. <u>Unzip the OIPA distribution and again unzip opss_standalone.zip. Copy the .jars below to the **libs** <u>folder.</u></u>
 - o ... \opss_standalone\modules\oracle.pki_11.1.1\ oraclepki.jar
 - o <u>.. \opss_standalone\modules\oracle.osdt_11.1.1 \osdt_cert.jar</u>
 - <u>... \opss_standalone\modules\oracle.osdt_11.1.1 \osdt_core.jar</u>
- 8. Unzip the OIPA distribution and again unzip coherence.zip. Copy ..\ coherence\lib\coherence.jar into the **libs** folder.
- 9. Use a text editor to open the PAS.properties file that you just copied to the server. The PAS.properties file contains properties for Oracle, SQL Server, and DB2 database types, with the Oracle settings active by default. The inactive settings are commented out with a '#' character at the start of each line. To



change a setting, remove the '#' from the required property setting, and insert it at the beginning of the setting you want to de-activate.

- 10. The properties 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 System Properties document in the Oracle Insurance Policy
	Administration E40981_01 Documentation Library on the OTN for a complete list of
	all properties and allowed values.

- 11. 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
- 12. If using an Oracle or Microsoft SQL Server database, please skip this step. If using a DB2 database, you will need to modify the PAS.properties file to include configuration for case-insensitive searching:
 - 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 subdirectories inside the directory from Step 1 called conf, libs, uploads and war.

Note: Grant read-write-execute permissions on all these directories.

- 3. Copy the PaletteConfig-waswl.war file into the war subdirectory and rename to PaletteConfig.war.
- 4. Copy the **PaletteWebApplication.properties** file into the **conf** subdirectory.
- 5. Open the **PaletteWebApplication.properties** file and edit the **download.dir** property to point to the **uploads** subdirectory created in Step 2.



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 Environment>Machines>New.
- 2. Enter the name for the machine.
- 3. If the OS is not UNIX, select Other from the Machine OS drop-down list.
- 4. Click Next.
- 5. 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 Environment>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 Environment>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 Environment>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/orac
le/oipa/libs/antlr-3.4.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-
2.2.jar:/opt/oracle/oipa/libs/log4j-
1.2.16.jar:/opt/oracle/Middleware/wlserver_10.3/server/lib/consoleapp/APP-
INF/lib/jstl.jar:/opt/oracle/oipa/libs/aspectjrt.jar:/opt/oracle/oipa/libs/aspectjweaver.jar
:/opt/oracle/oipa/libs/coherence.jar:/opt/oracle/oipa/libs/oraclepki.jar:/opt/oracle/oipa/li
bs/osdt_cert.jar:/opt/oracle/oipa/libs/osdt_core.jar
```

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

- 5. Enter the following arguments. The path names will vary depending on the configuration. The memory settings can be altered for your needs as well.
 - -server -Xms512M -Xmx2048M -XX:PermSize=128M -XX:MaxPermSize=512M
 - -javaagent:/opt/oracle/oipa/libs/spring-instrument-3.1.0.RELEASE.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 Environment>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 Environment>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 Environment>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/paletteconfig/conf/:/opt/oracle/db_drivers/ojdbc-11.2.0.2.jar

Note: The example lists the driver for the Oracle database. Make sure that the classpath refers to the correct drivers for SQL Server or DB2 as needed.

Make sure the classpath points to the correct directory for the Web Application Utility.

- 5. Enter the following arguments. This will vary depending on the configuration. -server -Xms256M -Xmx512M -XX:PermSize=128M -XX:MaxPermSize=256M
- 6. Select Save.



Create 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, click New and Select Generic Data Source.
- 3. In the JDBC Data Source Properties pane that appears:
 - a. 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, then each instance should have a unique name.
 - b. Change the JNDI Name to ADMINSERVERDS. This name cannot be anything other than ADMINSERVERDS.
 - c. Select the Oracle database type.
 - d. Click Next.
 - e. Keep the default driver.
- 4. Select Next.
- 5. Select Next again when Transaction options are displayed.
- 6. In the **Connection Properties** pane:
 - a. Enter the Database Name.
 - b. Enter the Host Name of the database server.
 - c. Enter the Port number of the database server.
 - d. Enter the Database user name. This can be obtained from the database administrator who installed the databases.
 - e. Enter both password entries. This can be obtained from the database administrator who installed the databases.
 - f. Select Next.



Database Name:	orcl
What is the name or IP address of	the database server?
Host Name:	localhost
What is the port on the database	server used to connect to the database?
Port:	1521
What database account user nam Database User Name:	e do you want to use to create database connecti
	sword to use to create database connections?
What is the database account pas	
What is the database account pas Password:	••••

Figure 1-1: Connection Properties Pane

- 7. Test the database connection.
- 8. Select Next.
- 9. In the **Select Targets** pane that appears, check the box for the OIPA application server. This links the data source to the server that was created.
- 10. Select Finish.



Create the Data Source for ADMINSERVERRESOURCEDS

- 1. Select Services> Data Sources.
- 2. In the configuration section on the right, click New and then Select Generic Data Source.
- 3. In the JDBC Data Source Properties pane that appears:
 - a. 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.
 - b. Change the JNDI Name to ADMINSERVERRESOURCEDS.
 - c. Select the database type.
 - d. Select the driver type.
- 4. Select Next.
- 5. Select **Next** again when Transaction options are displayed.
- 6. In the **Connection Properties** pane:
 - a. Enter the Database Name.
 - b. Enter the Host Name of the database server.
 - c. Enter the Port number of the database server.
 - d. Enter the Database user name for a readonly user. This can be obtained from the database administrator who installed the databases.
 - e. Enter both password entries. This can be obtained from the database administrator who installed the databases.
 - f. Select Next.
- 7. Test the database connection.
- 8. Select Next.
- 9. 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 was created.
- 10. Select Finish.



Create the Data Source for ADMINSERVERSEARCHDS

- 1. Select Services> Data Sources.
- 2. In the configuration section on the right, click **New** and then **Select Generic Data Source**.
- 3. In the JDBC Data Source Properties pane that appears:
 - a. 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.
 - b. Change the JNDI Name to ADMINSERVERSEARCHDS.
 - c. Select the database type.
 - d. Select the driver type.
- 4. Select Next.
- 5. Select **Next** again when Transaction options are displayed.
- 6. In the **Connection Properties** pane:
 - a. Enter the Database Name.
 - b. Enter the Host Name of the database server.
 - c. Enter the Port number of the database server.
 - d. Enter the Database user name for a readonly user. This can be obtained from the database administrator who installed the databases.
 - e. Enter both password entries. This can be obtained from the database administrator who installed the databases.
 - f. Select Next.
- 7. Test the database connection.
- 8. Select Next.
- 9. 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 was created.
- 10. Select Finish.



Create Data Source for ADMINSERVERREADONLYDS

- 1. Select Services> Data Sources.
- 2. In the configuration section on the right, click New and then Select Generic Data Source.
- 3. In the JDBC Data Source Properties pane that appears:
 - a. Change the Name to ADMINSERVERREADONLYDS.
 - b. Change the JNDI Name to ADMINSERVERREADONLYDS.
 - c. Select the database type.
 - d. Select the driver type.
- 4. Select Next.
- 5. Select Next again when Transaction options are displayed.
- 6. In the Connection Properties pane:
 - a. Enter the Database Name.
 - b. Enter the Host Name of the database server.
 - c. Enter the Port number of the database server.
 - d. Enter the Database user name for the readonly user. This can be obtained from the database administrator who installed the databases.
 - e. Enter both password entries. This can be obtained from the database administrator who installed the databases.
 - f. Select Next.
- 7. Test the database connection.
- 8. Select Next.
- 9. 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 was created.
- 10. 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:
 - a. Locate the **PASJava.war** file.
 - b. Click Next.
 - c. For the **Choose targeting style** keep the default of Install this deployment as an application.
 - d. Click Next.
 - e. For the **Select deployment targets**, select the checkbox for the server that will host the OIPA application.
 - f. Click Next.



- g. Change the application name if needed.
- h. Click Next.
- i. 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:
 - a. Locate the PaletteConfig.war file.
 - b. Click Next.
 - c. For the Targeting Style keep the default of Install this deployment as an application.
 - d. Click Next.
 - e. For the **Deployment Target** select the checkbox for the server that will host the Web Application Utility.
 - f. Click Next.
 - g. Change the application name if needed.
 - h. Click Next.
 - i. 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 URL of the PaletteConfig server. The Web Application Utility must always be running in order for users to access the Rules Palette.



TEST THE DEPLOYMENTS

The initial test of the deployment is to confirm that the application presents a login screen when the application URL is opened. Final testing of the OIPA deployment must wait until after the Web Application Utility is configured and initial users have been set up.

OIPA Deployment

- 1. Open a new Internet Explorer window.
- 2. Navigate to http://hostname:port/PASJava/.

Note: If you change the context name, use that name in the URL instead of PASJava.

3. Confirm that the login screen appears.

Web Application Utility Deployment

- 1. Open a new Internet Explorer window.
- 2. Navigate to http://hostname:port/PaletteConfig/.

Note: If you change the context name, use that name in the URL instead of PaletteConfig.

3. Confirm that the Web Application Utility set-up screen appears.