ORACLE
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Oracle Insurance

Insbridge Rating and Underwriting

SoftRater for WebLogic Installation Guide

Release 4.1

December 2010

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Oracle Insurance Insbridge Rating and Underwriting SoftRater for WebLogic Installation Guide

Release 4.1

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PREFACE

Welcome to *Oracle Insurance Insbridge Rating and Underwriting SoftRater for WebLogic Installation Guide*. This guide describes how to install and configure SoftRater for WebLogic Server 10.3.1. SoftRater may be used in conjunction with the Oracle Insurance Insbridge Rating and Underwriting RateManager (RateManager) system to process rating requests or it may stand alone.

The Insbridge SoftRater Server (IBSS) is the container for all Insbridge web components including the SoftRater Engine. All independent Insbridge components will be contained in the IBSS.

NOTE: *This installation was tested and certified on WebLogic 10.3.1.*

AUDIENCE

This guide is intended for technical personal, such as installers, system administrators and others tasked with configuring SoftRater that would be involved in the maintenance and operation of SoftRater or RateManager. The audience for this guide should have a thorough knowledge of WebLogic.

RELATED DOCUMENTS

For more information, refer to the following Oracle resources:

- The Oracle Insurance Insbridge Rating and Underwriting Framework Administrator.
- The Oracle Insurance Insbridge Rating and Underwriting SoftRater Server Guide.
- You can view these guides in-line at this address:

  http://www.oracle.com/technetwork/documentation/insurance-097481.html

CONVENTIONS

This document may reference the following abbreviations:

- **WL:** WebLogic Server
- **JNDI:** Java Naming and Directory Interface

The following text conventions are used in this document:

Convention	Description
bold	Boldface type indicates graphical user interface elements associated with an action.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
`monospace`	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

SYSTEM REQUIREMENTS

For minimum operating system and hardware requirements, please see the Hardware Software requirements guide.

E-DELIVERY

The Insbridge Rating and Underwriting (IBRU) System is available as a download from the Oracle E-Delivery system. Downloaded files are zipped. Prior to installation, please make sure the source machine(s) where SoftRater for WebLogic will be loaded has an unzip utility.

An unzip utility for most platforms is available on the E-Delivery download page.

Documentation from E-Delivery is in PDF format. Prior to installation, please make sure the source machine(s) where SoftRater for WebLogic documentation will be loaded has a PDF reader.

Files are downloaded with part numbers as file names. Please make note of the part numbers you have downloaded and the corresponding file name. You may be asked to provide the part numbers or the filename if you contact Oracle Support.

The SoftRater for WebLogic 4.1.0 zip file will contain:

- The 4.01.00-insbridge-wbl-eng Folder
  - insbridge.net.softraterconfig.xml
  - IBSS_WL.ear
  - ojsp.jar

No license file is required.

If you are using Insbridge Framework Administrator and RateManager, SoftRater can be installed any time after the Insbridge Framework Administrator and RateManager have been installed. SoftRater must be installed prior to any users creating packages.

Manual History

New editions incorporate any updates issued since the previous edition.

Edition	Publication Number	Product Release	Publication Date	Comment
1st Edition	P01-762-01	V 3.8.9	April 2008	WebLogic 9.2
2nd Edition	P01-762-02	V 3.9.0	May 2008	WebLogic 9.2
3rd Edition	P01-762-03	V 3.10	September 2008	WebLogic 9.2
4th Edition	P01-762-04	V 3.11	December 2008	WebLogic 9.2
5th Edition	P01-762-05	V 3.12	July 2009	WebLogic 9.2
6th Edition	P01-762-06	V 3.13	December 2009	WebLogic 10.3
7th Edition	P01-762-07	R 4.0	April 2010	WebLogic 10.3
8th Edition	P01-762-08	R 4.0.1	August 2010	WebLogic 10.3
9th Edition	P01-762-09	R 4.1	December 2010	WebLogic 10.3

Chapter 1

WEBLOGIC REQUIREMENTS

WebLogic 10.3.1 should be up and running prior to installing the .EAR file.

LOCATING THE CONFIGURATION FILES

We suggest creating a C:\Insbridge\config folder but you may use any folder name you want and you can place the folder any where you want. This folder will hold the necessary files for the SoftRater for WebLogic installation. Take note of the location and make sure you have created this folder prior to running the installation.

NOTE: *For the purposes of this guide, the location will be referred to as C:\Insbridge\config.*

The SoftRater for WebLogic zip file should be downloaded to the WebLogic server prior to configuration. Unzip the file. There will be an XML file, a .JAR file and an .EAR file inside.

- **ojsp.jar**
- **IBSS_WL.ear**
- **Insbridge.net.softraterconfig.xml**

Place these files in the C:\Insbridge\config folder.

NOTE: *It is important that the configuration path specified in the Adding a System Property to WL Server section of this document contain both the application and configuration files. These files need to be placed where you specify in the startWebLogic.cmd file.*

Once you have these files in place, do not move them.

Chapter 2

SETTING UP WEBLOGIC

WebLogic 10.3 should be up and running prior to installing the .EAR file. If you need to create a domain, the following steps may be executed.

NOTE: *This is a suggested domain setup. Your setup may vary.*

It is not required that you set up a separate domain. If you do create a separate Insbridge domain, please verify that there are no port issues. The Insbridge .EAR file can be installed on an already exiting domain.

CREATING A NEW SERVER DOMAIN

To create a new server domain, go to your **Start Menu→Oracle WebLogic→WebLogic Server 11gR1→Tools→ Configuration Wizard** and follow the wizard according to your company standards. In most cases, for the Insbridge application, a default basic configuration could be used.

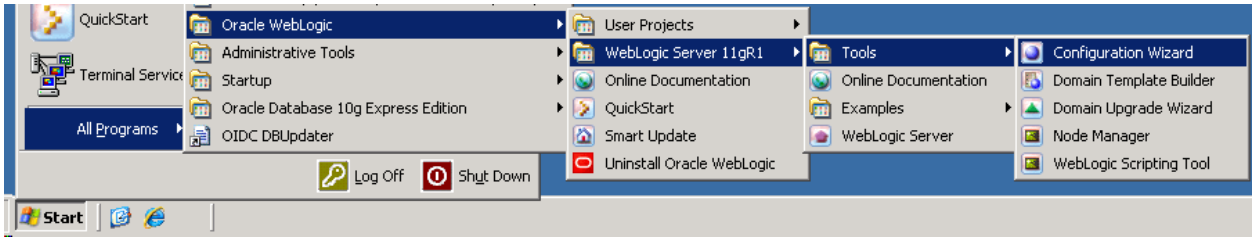


Figure 1 – Creating a New Server Domain

CONFIGURATION WIZARD

On the Welcome screen, you will want to create a new WebLogic domain.

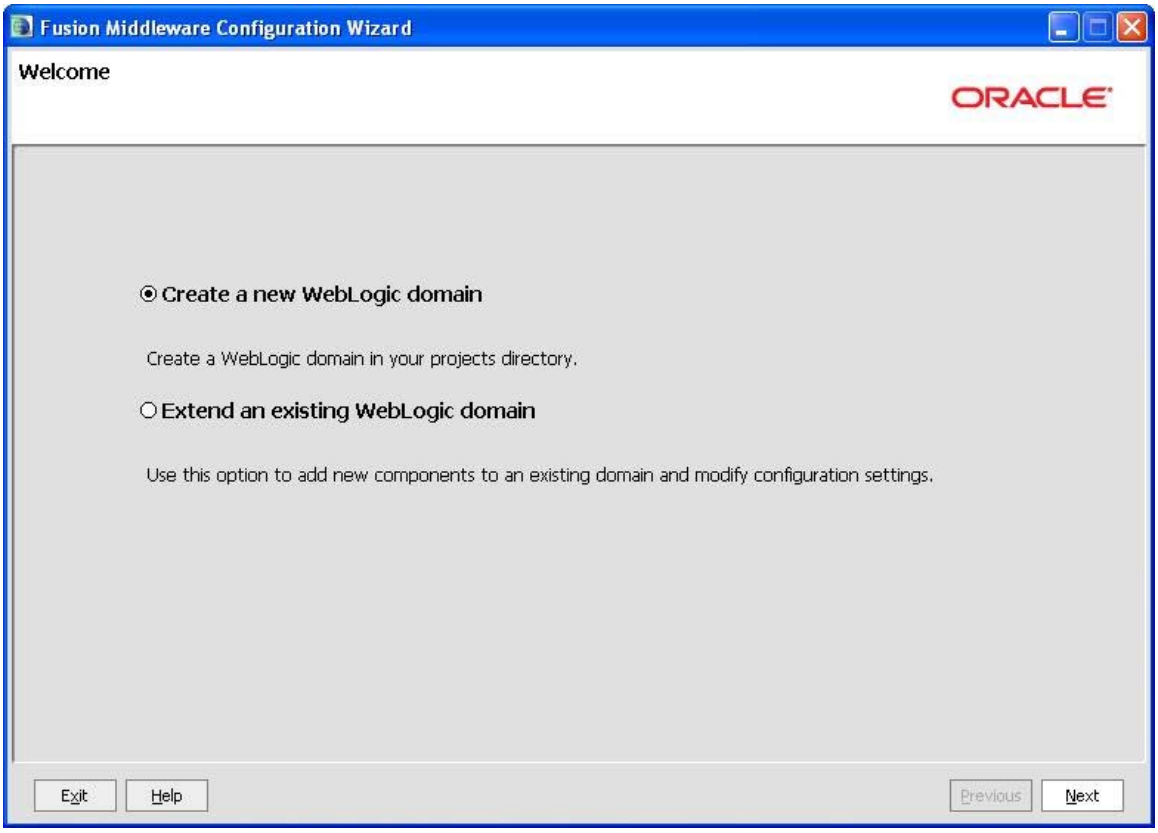


Figure 2 – Creating New WebLogic Domain

1. Select **Create a New WebLogic domain**.
2. Click **Next** to advance to the next screen.

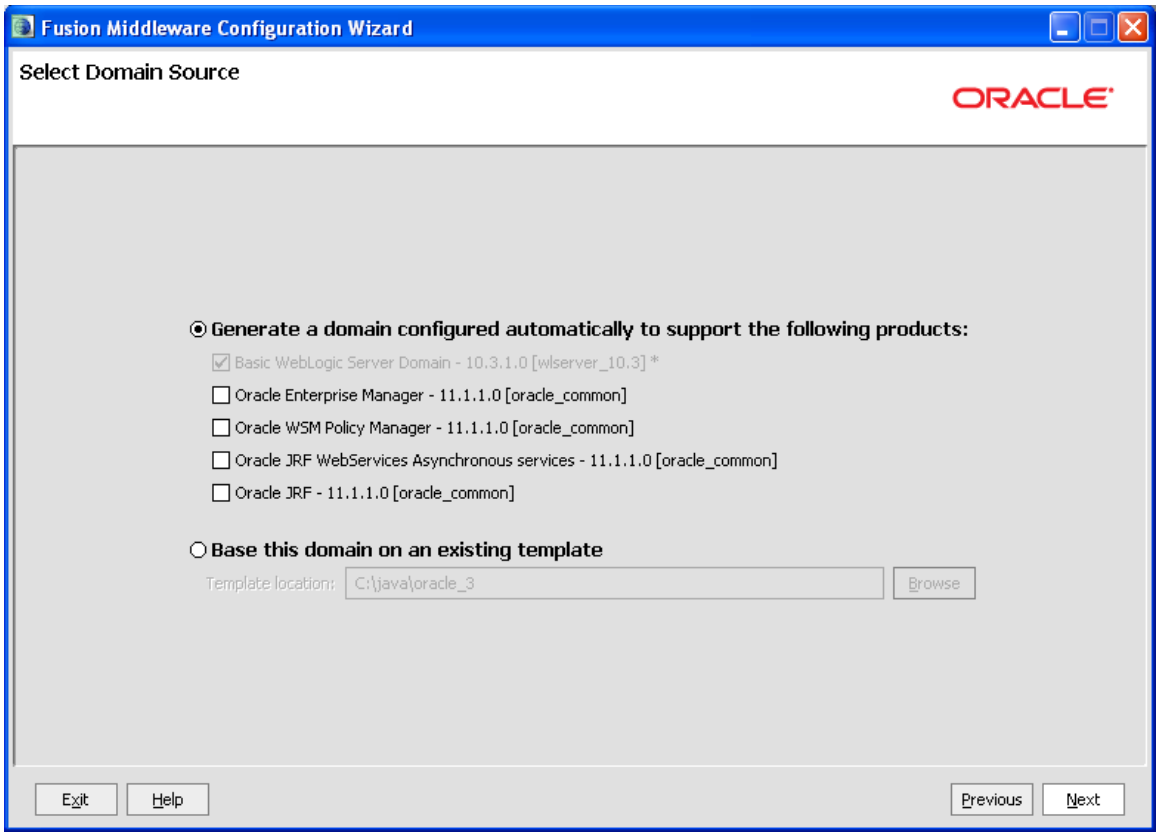


Figure 3 – Selecting Domain Source

3. For a basic installation, select **Generate a domain configured automatically to support the following products:** The **WebLogic Server** option is the only option you will need to select.

4. Click **Next** to continue.

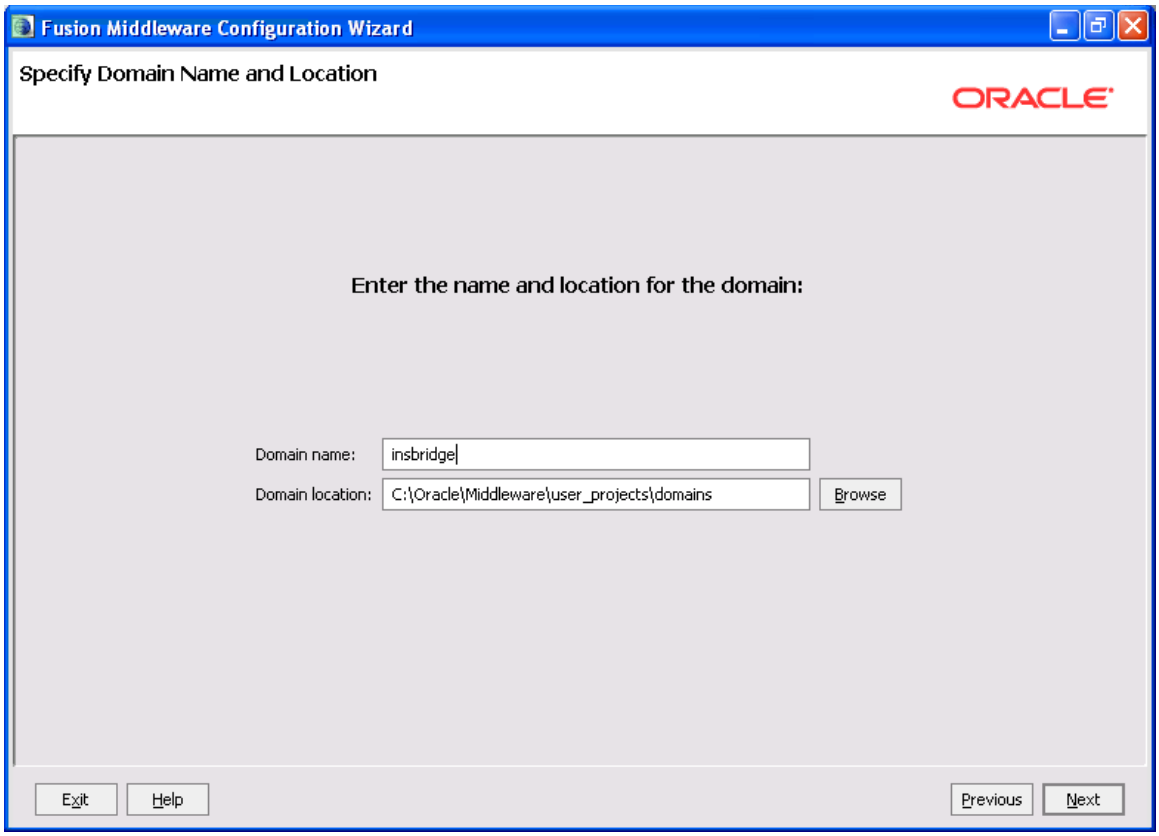


Figure 4 – Specifying Domain Name and Location

5. Specify the **Domain Name** and **Location**. The domain name can be anything that meets your company standards.

6. Click **Next** to continue.

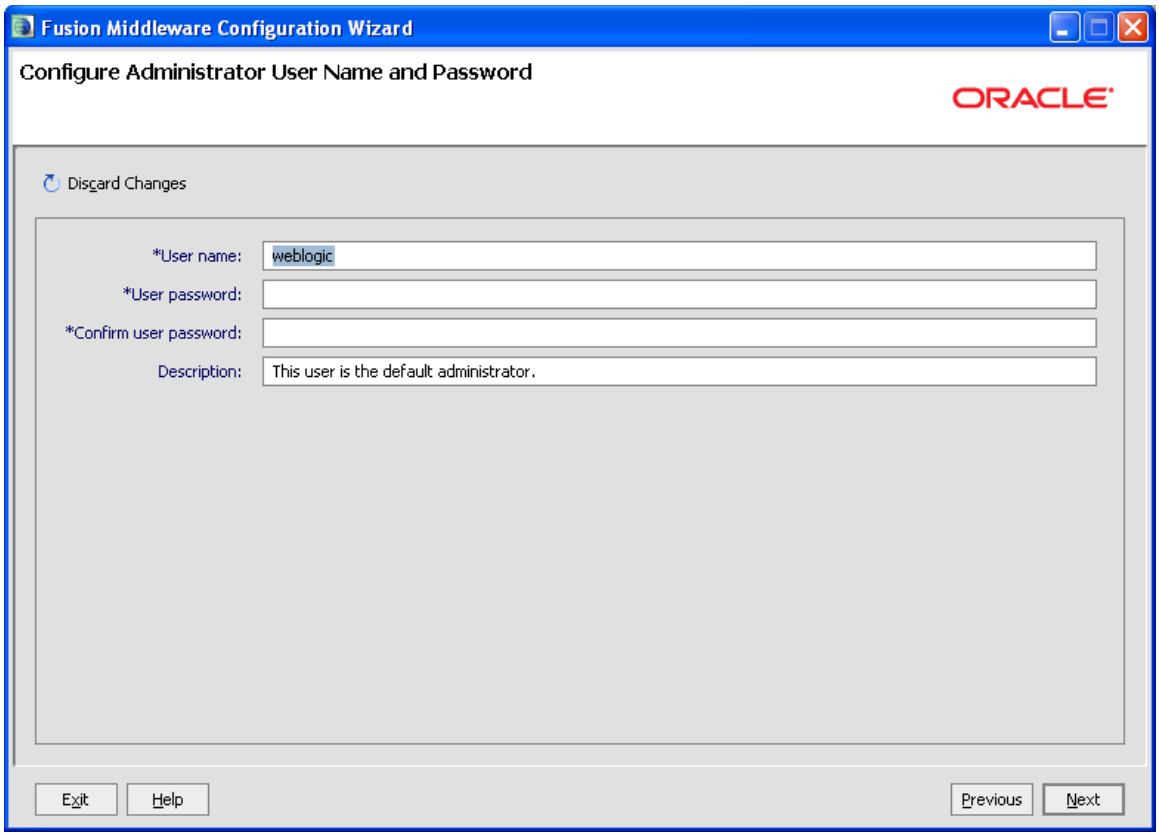


Figure 5 – Creating User Name and Password

7. Next, configure the Administrator User name and password. The **User name** and **password** are WebLogic, unless otherwise specified.

8. The **Description** is optional.

9. Click **Next** to continue.

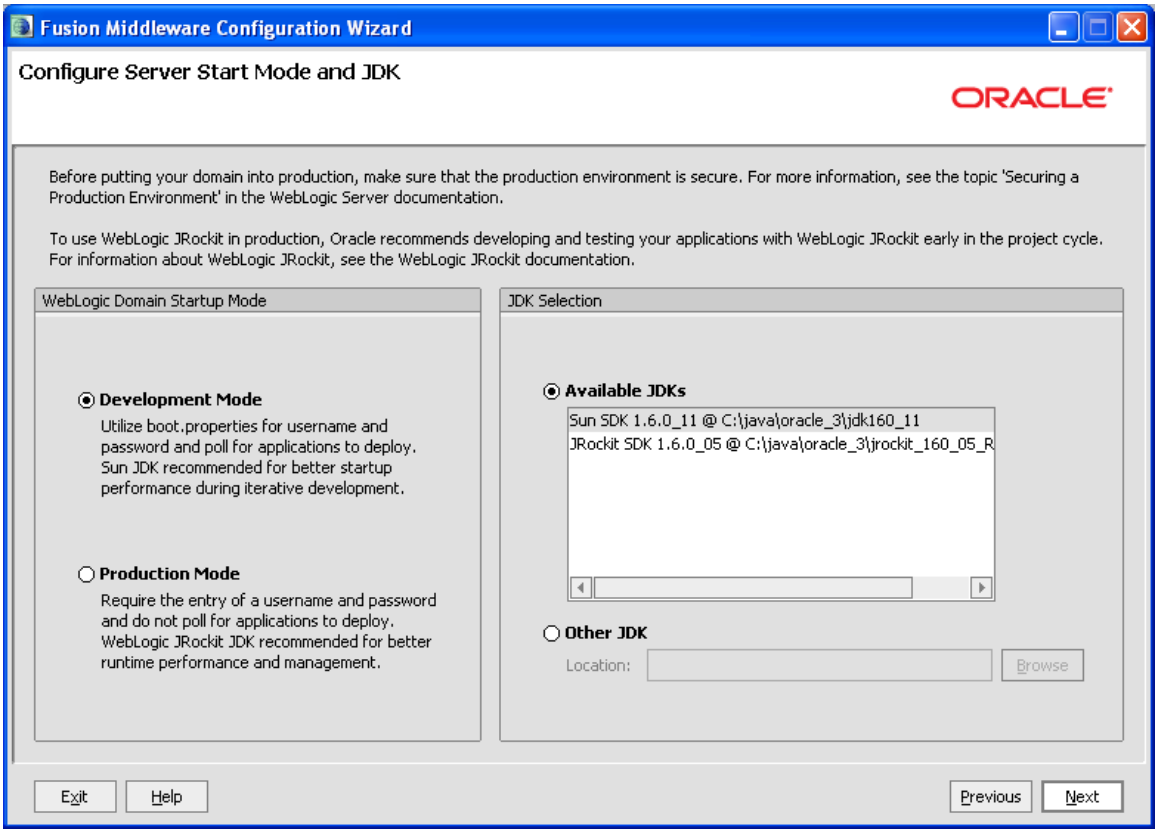


Figure 6 – Configuring Server Start Mode and JDK

10. Select **Development Mode** for the Startup Mode.
11. Select the supplied **Sun SDK** in the **Available JDKs** area.
12. Click **Next** to continue.

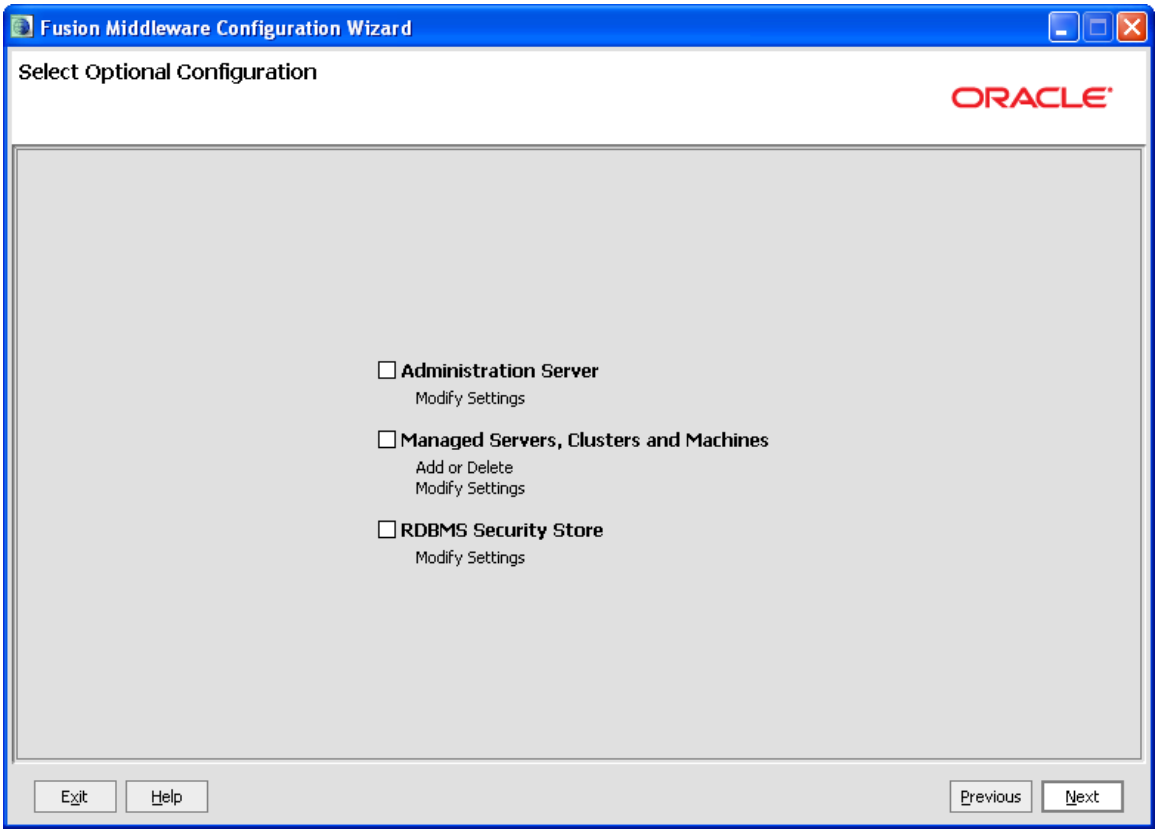


Figure 7 – Customizing Environment and Service Settings

13. These modifications are not required for basic installation.

14. Click **Next**.

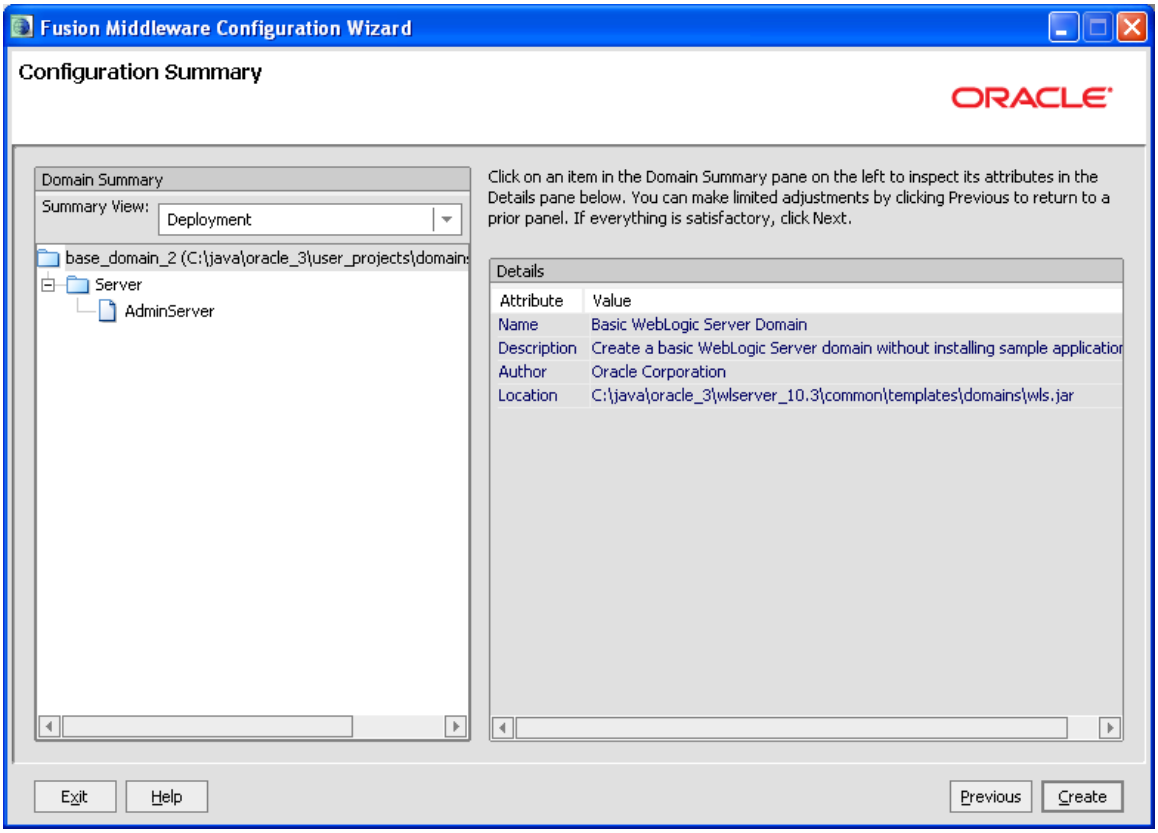


Figure 8 – Creating WebLogic Domain

15. No other changes are necessary. Click **Create**.

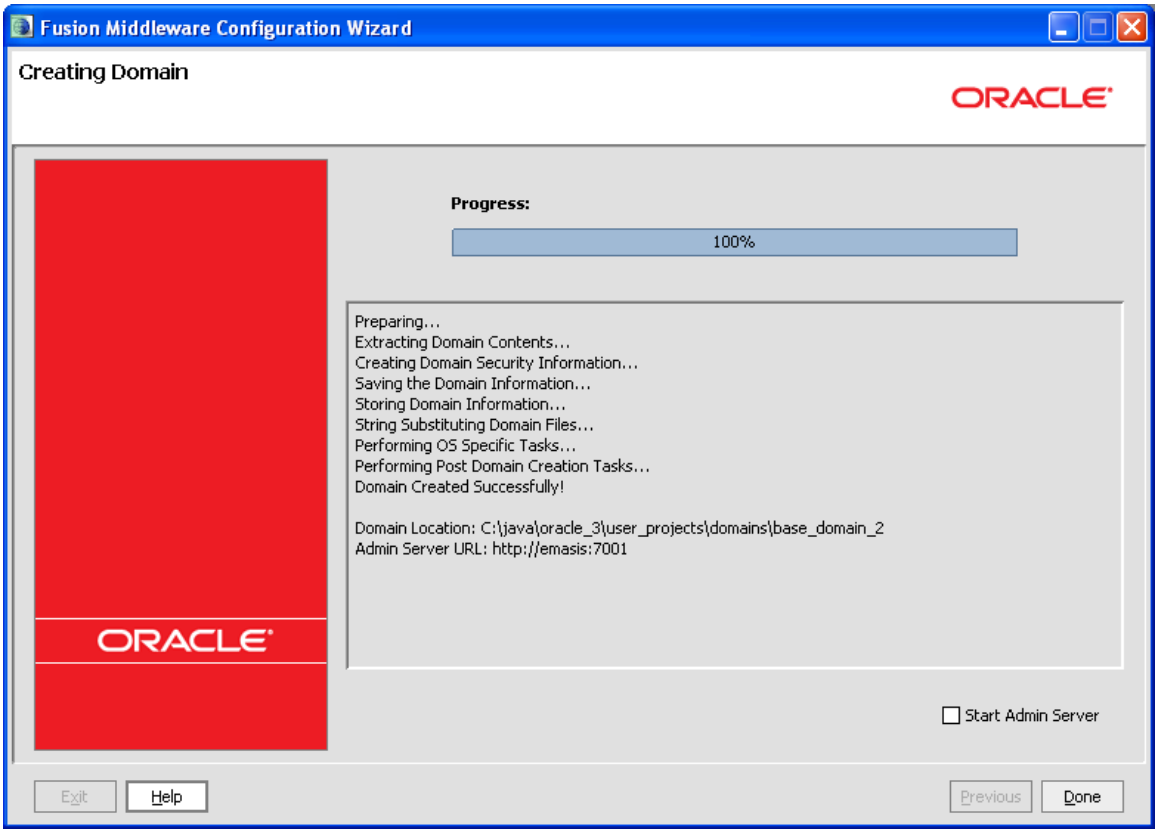


Figure 9 – Start Menu

16. WebLogic will begin the creation of the Domain. The progress bar will display 100% when complete.

17. Click **Done** to close the Wizard. The domain is ready to use.

ADDING A SYSTEM PROPERTY TO WL SERVER

The Insbridge application requires a shared variable on the WebLogic Server that points to the location of the configuration files.

In WebLogic, it is not possible to define variables as part of the Server JNDI. For this reason, you must create a Java System property in the server initialization that can be used by the application to retrieve the path that accesses the system configuration files.

NOTE: *If the server domain was running during these modifications, you will need to restart the server before proceeding.*

Adding to the WebLogic Server - Windows

1. In a Windows Explorer window, enter the server domain location, i.e. %Domain=Home%.

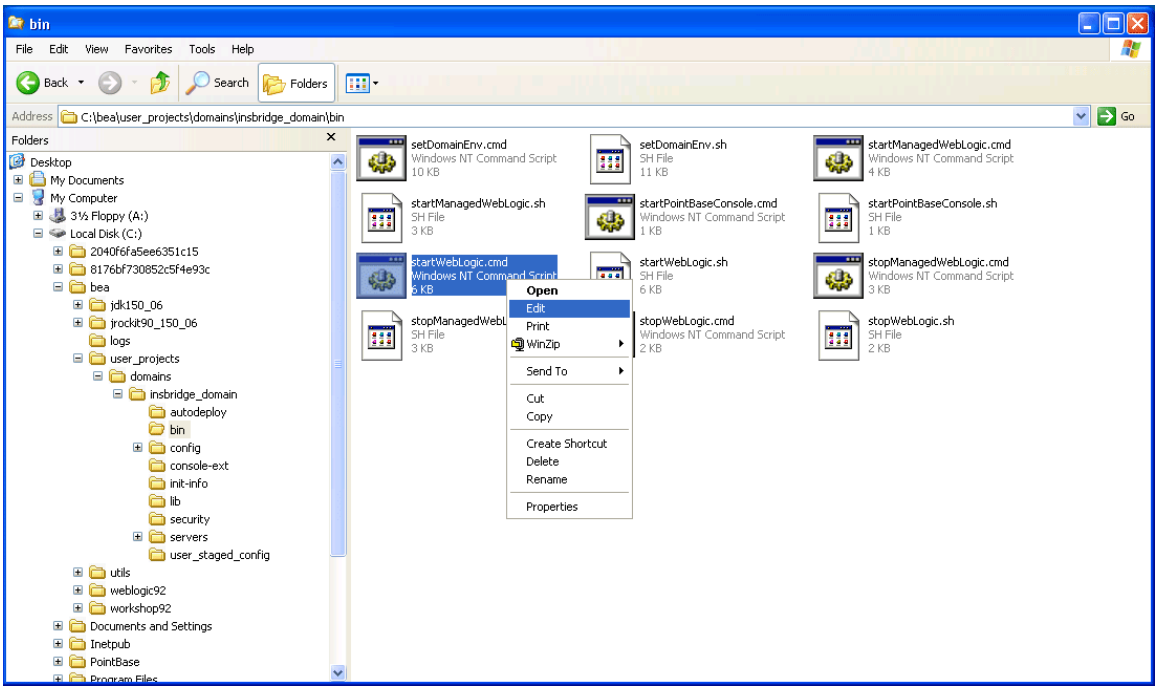


Figure 10 – startWebLogic.cmd File

2. In the "**bin**" folder locate the "**startWebLogic.cmd**" file. Make a backup of the "**startWebLogic.cmd**" file.

3. Open the "**startWebLogic.cmd**"file and right click to **Edit**. Scroll towards the end of the file.

```
if "%WLS_REDIRECT_LOG%"=="" (

%JAVA_HOME%\bin\java %JAVA_VM% %MEM_ARGS% %JAVA_OPTIONS% -Dweblogic.Name=%SERVER_NAME% -
Djava.security.policy=%WL_HOME%\server\lib\weblogic.policy %PROXY_SETTINGS% %SERVER_CLASS%

) else (

%JAVA_HOME%\bin\java %JAVA_VM% %MEM_ARGS% %JAVA_OPTIONS% -Dweblogic.Name=%SERVER_NAME% -
Djava.security.policy=%WL_HOME%\server\lib\weblogic.policy %PROXY_SETTINGS% %SERVER_CLASS%
>"%WLS_REDIRECT_LOG%" 2>&1

)
```

Figure 11 – Editing startWebLogic.cmd File

4. Locate the **DOS if instruction** that looks similar to the one in Figure 11. Your exact file may have slight variations.

5. In both conditions of this instruction you will need to insert the following system property declaration:

   - `-DINSBRIDGE_APP_DIR="C:\Insbridge\config". If you copy, please verify valid characters have been entered.`

     In this declaration, add a system property to the Java Virtual Machine using the "**-D**" parameter, then specify "**INSBRIDGE_APP_DIR**" as the name of the new variable.

     You must also specify the path where the configuration file will be located. i.e. "**C:\Insbridge\Config**". Where **C:\Insbridge\config** is the folder you created earlier.

6. **Save** your changes.

```
if "%WLS_REDIRECT_LOG%"=="" (

%JAVA_HOME%\bin\java %JAVA_VM% %MEM_ARGS% %JAVA_OPTIONS% -Dweblogic.Name=%SERVER_NAME% -
Djava.security.policy=%WL_HOME%\server\lib\weblogic.policy -DINSBRIDGE_APP_DIR= "C:\Insbridge\Config"
%PROXY_SETTINGS% %SERVER_CLASS%

) else (

%JAVA_HOME%\bin\java %JAVA_VM% %MEM_ARGS% %JAVA_OPTIONS% -Dweblogic.Name=%SERVER_NAME% -
Djava.security.policy=%WL_HOME%\server\lib\weblogic.policy -DINSBRIDGE_APP_DIR= "C:\Insbridge\Config"
%PROXY_SETTINGS% %SERVER_CLASS% >"%WLS_REDIRECT_LOG%" 2>&1

)
```

Figure 12 – Edited startWebLogic.cmd File

7. The variable will be added to the Server the next time it is started.

Adding to the WebLogic Server – UNIX

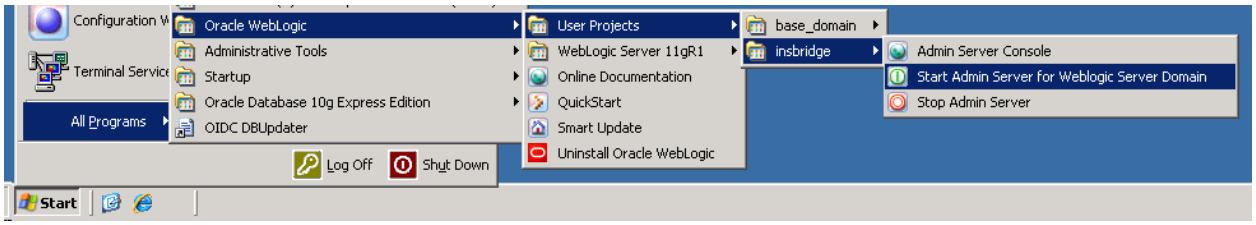
The procedure is similar in UNIX. Locate the "**startWebLogic.sh**" file. In many instances, the file will be located in: ..\Oracle\Middleware\user_projects\domains\insbridge\bin. Open the file and right click to **Edit**. Scroll towards the end of the file and make the necessary changes.

Chapter 3

WEBLOGIC MAIN CONSOLE

Starting the WebLogic Server

To start the WebLogic server, go to the "**Start Menu→Oracle WebLogic→User Projects→<Your Server Domain>→Start Admin Server for WebLogic Server Domain**".



NOTE: *Please do not close the command prompt window that starts the service. Closing the command prompt window will stop the webserver instance.*

Accessing the WebLogic Main Console

The WebLogic Main Console can be accessed once the WebLogic server domain is running by typing http://<ServerName or IP Address>:<Port>/console on your browser. You will need the administrator password used when the server domain was created. i.e. http://localhost:7001/console

Figure 13 – Logging into WebLogic Server

Step 1: Installation of Required Library

The WebLogic Insbridge application requires one WebLogic library to be deployed on to the server prior to the application installation itself. This library will be shipped with the SoftRater for WebLogic application. Place this library anywhere on your disk and then proceed with the installation.

Library	Description
oracle.jsp.next (ojsp.jar)	Oracle Jsp library for ADF applications

Figure 14 – Oracle jsp library

Step 2: Editing on the WebLogic Main Console

The WebLogic administration console offers multiple configuration options. This guide will focus on the deployments features that can be accessed by clicking the highlighted **Deployments** link on the left hand of the console.

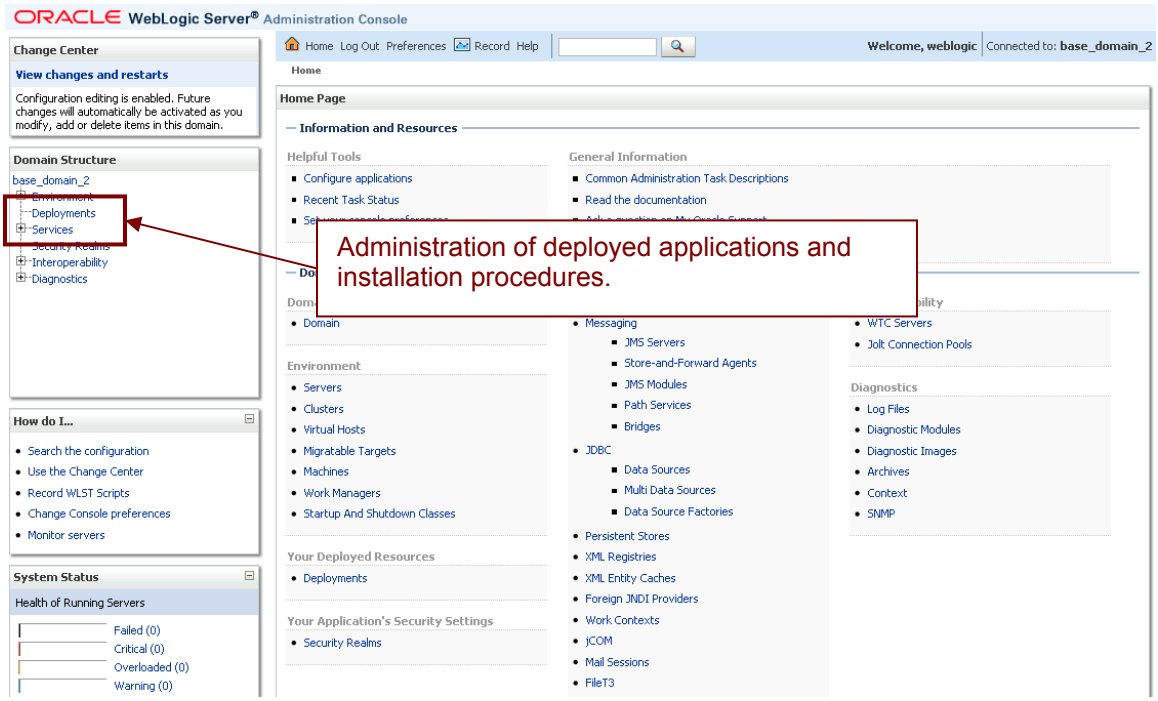


Figure 15 – WebLogic Console

1. Click the **Deployments** link. The screen will refresh with the Deployments Page.

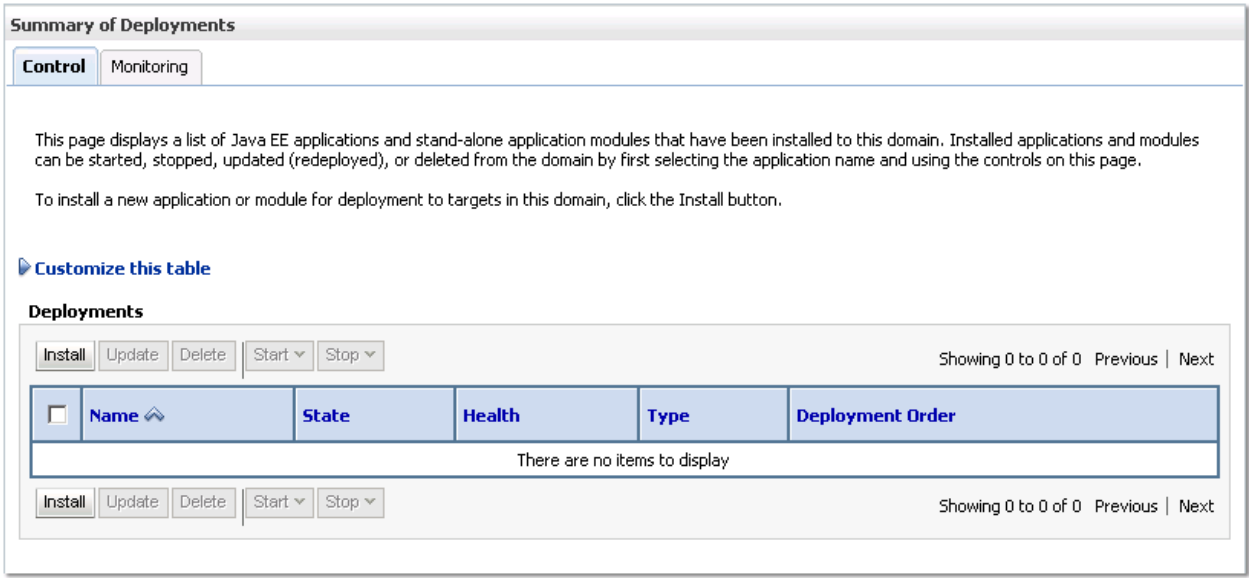


Figure 16 – Deployments Page

2. From the Summary of Deployments Page, click the **Install** button. The screen will refresh to the Install Application Assistant page.

3. The list of Locations will be displayed. Select the location where you placed the "ojsp.jar" file.

4. Select the "ojsp.jar" library.

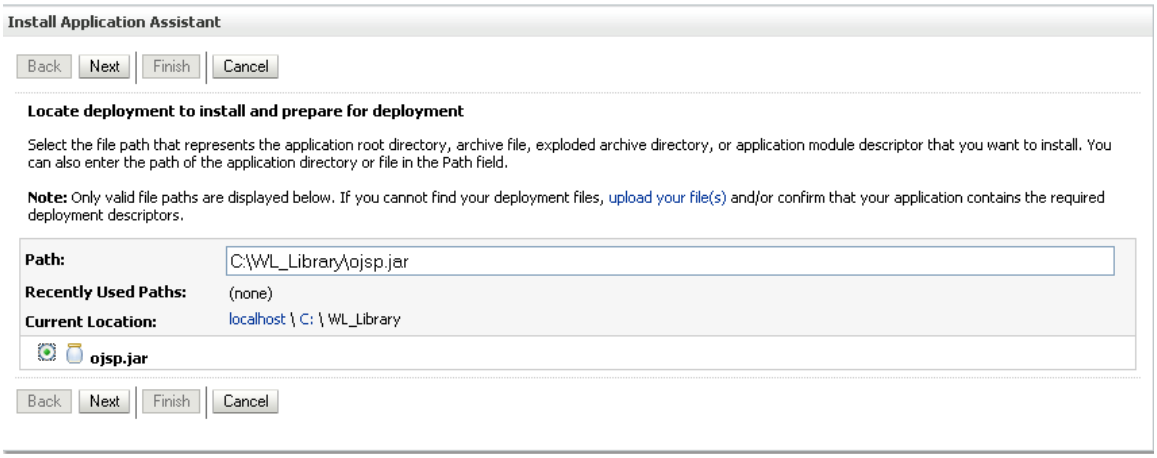


Figure 17 – List of Libraries

5. Click the **Next** button.

6. On the **Optional Settings** page, you will need to change the library name to "oracle.jsp.next". Everything else can be set to the default values click **Finish**.

NOTE: *You can navigate back to the previous folder by clicking the hyperlinks in the **Current Location:** path.*

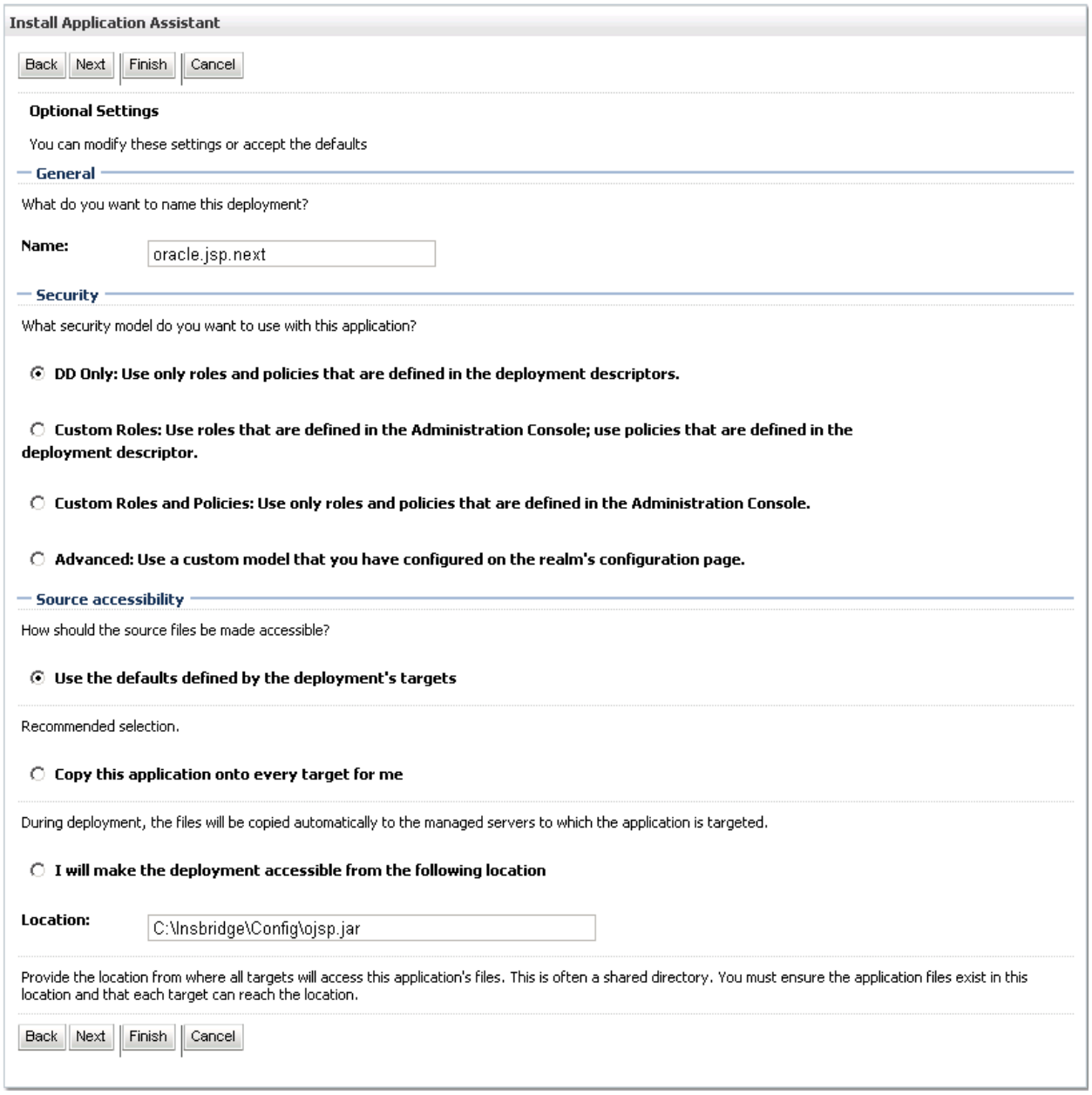


Figure 18 – Selecting Defaults

7. After the library has been added, you will be placed on the Summary of Deployments page. The library you added will be listed. Read the messages at the top of the screen and correct any error messages.

8. The library will be active.

Chapter 4

PREPARATION FOR DB2 INSTALLATION

For DB2 installations please follow the DB2 instruction set below prior to installing EAR file.

For DB2 installations only.

1. Unzip the files to any designated location.

2. Locate and copy the DB2 jar file to the "APP-INF\lib" folder. The DB2 JAR file should be in your DB2 installation folder java directory. You may also download this file from IBM directly.

3. Run the batch file (ex: example.bat) from a console using the following parameters:

   a- Java_Home folder. i.e.: "C:\java\oracle\jdk150_10"

   b- Installation EAR filename. i.e.: **IBSS_WL.EAR**

   Example: "**DB2_Patch C:\java\oracle\jdk150_10\IBSS_WL.EAR**"

4. Check the output messages from the batch file:

   a- If Java_Home folder is invalid an error will be shown.

   "The provided java_home path is not valid."
   "Please provide a valid java_home folder in order to continue."

   b- If parameters are valid, the application will show the compression ratio used for the DB2 jar file.

   c- A message showing "SoftRater EAR Patch applied successfully..." will be displayed once the process completes.

NOTE: *Upon completion of these steps, the batch file will copy the original EAR adding a "DB2_" prefix to the new filename. The new file "DB2_<EAR_FileName>" will be modified adding the DB2 jar file.*

The original EAR should be located on the same folder as the batch file so it can be copied and renamed in the same operation.

NOTE: *An example.bat file is also provided. You may need to change the Java_Home and EAR values in order to run it.*

Chapter 5

INSTALLATION OF THE .EAR FILE

NOTE: *For SQL Server 2005, no additional steps are required. For DB2, please make sure you have completed the DB2 preparation requirements. See Chapter4, Preparing for DB2 Installation.*

The installation of the Insbridge .EAR File begins in the same way as the installation of the WebLogic library.

1. From the Summary of Deployments Page, click the **Install** button. The screen will refresh to the Install Application Assistant page.

2. The list of Locations will be displayed. Click the location you need to reach the .EAR file.

3. Select the **.EAR** file.

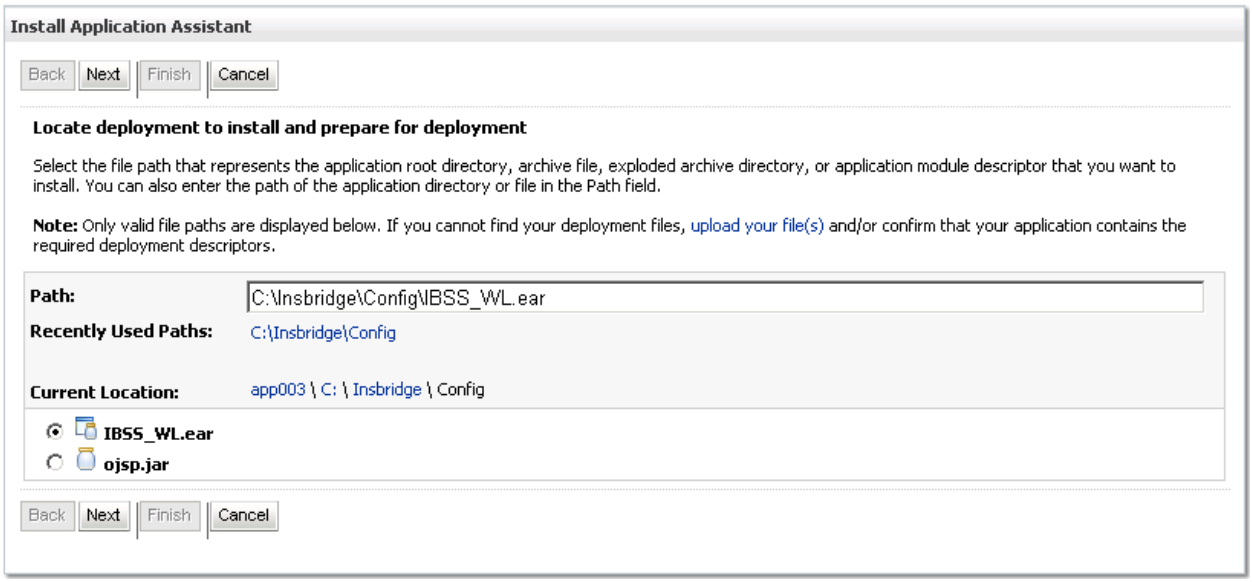


Figure 19 – Select the Application .EAR

4. Click **Next**.

5. Select **Install this deployment as an application** and click **Next**.

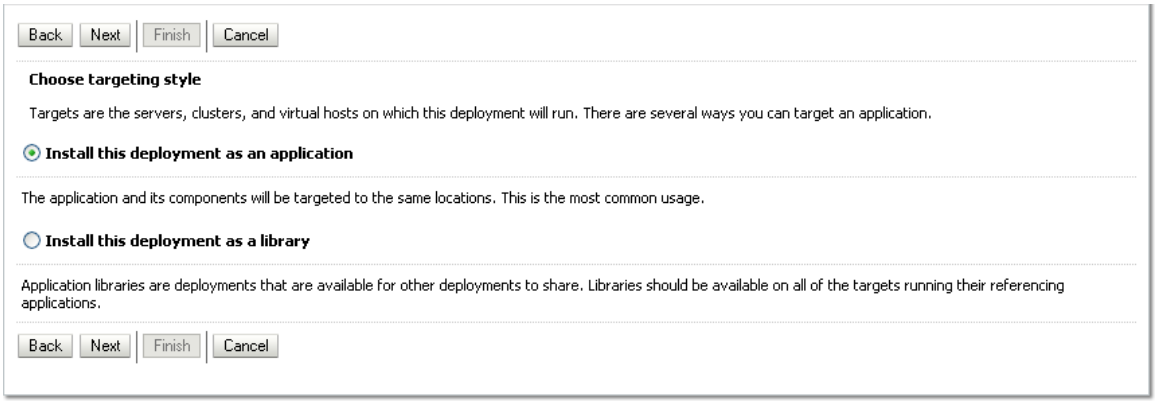


Figure 20 – Verify Application Installation

6. On the **Optional Settings** page, it is recommended that you keep the default values. The deployment name should appear as IBSS_WL.

7. Click **Finish**.

8. After the .EAR File has been added, you will be placed on the Summary of Deployments page. The .EAR File you added will be listed. Read the messages at the top of the screen and correct any error messages.

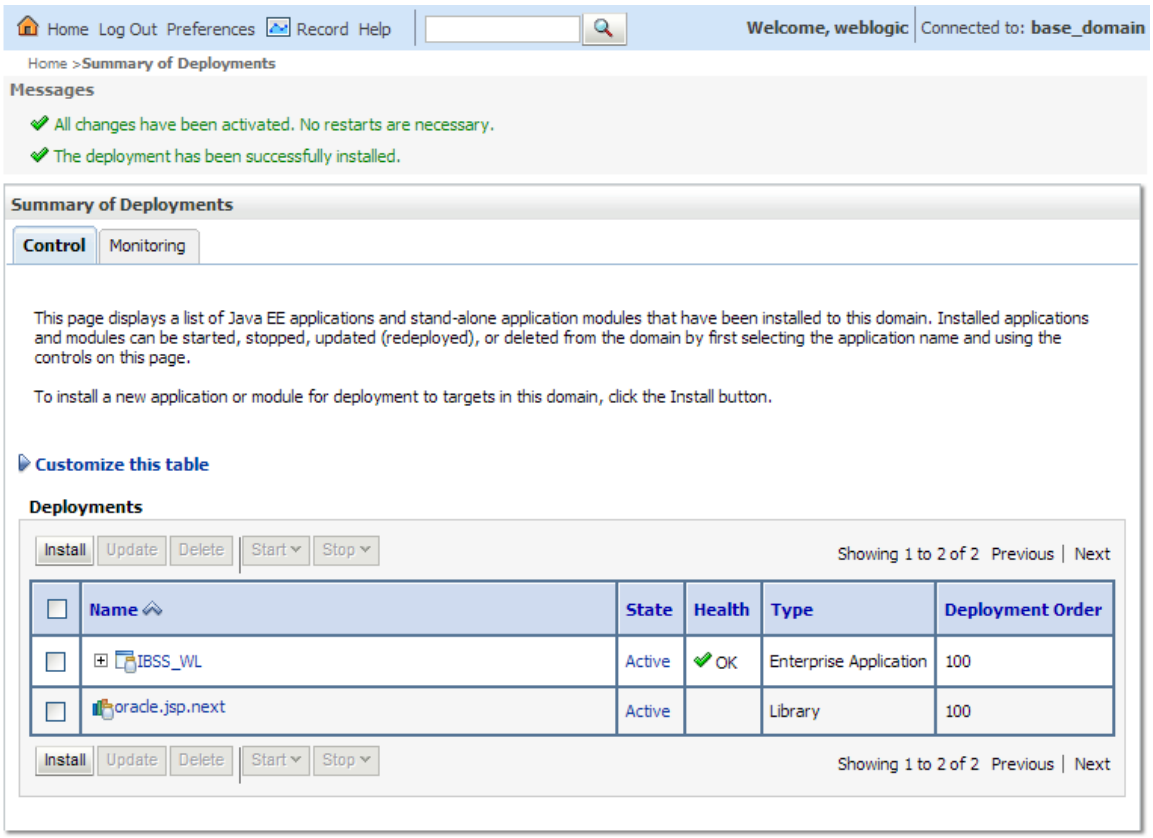


Figure 21 – Successful Installation

Project Composition

The following shows the project composition that should appear when the SoftRater for WebLogic application is expanded. Verify that all the components were successfully installed.

Name	State	Health	Type	Deployment Order
IBSS_WL	Active	OK	Enterprise Application	100
Modules				
IBSS			Web Application	
InsBridgeEJB.jar			EJB Module	
EJBs				
SoftDataEJB			EJB	
SoftRaterEJB			EJB	
SoftServicesGatewayEJB			EJB	
Web Services				
SoftDataWS			Web Service	
SoftRaterWS			Web Service	
SoftServicesGatewayWS			Web Service	

Figure 22 – Project Composition

Chapter 6

CREATING A SOFTRATER DATABASE

The Insbridge Framework Application container for the SoftRater J2EE EJB contains the JDBC connection drivers that support operational connectivity to the DBMS system listed before. It also contains vendor specific DDLs for the SoftRater operations database schema creation which can be altered by DBA's for setup compliance for varying corporate environments, i.e. TABLESPACE and SCHEMA target definitions.

To obtain Database Definition Language (DDL) scripts for a target DBMS type view the "SoftRater\DDL" subdirectory in the Insbridge IBFA installation directory.

i.e. C:\Program Files\Oracle\IGBU\Insbridge\SoftRater\DDL

Please allow the DBA to review the scripts before attempting to create a SoftRater database schema.

The SoftRater EJB data access system contains all the required JDBC drivers for connectivity to the support DBMS's. TCP/IP connection visibility to the DB Platform is required along with the database server system configured connection PORT for operational use of the SoftRater system. No other supplemental drivers or libraries are needed to establish a connection.

IMPORTANT: *It is strongly recommended that any database modification be performed by a qualified database administrator (DBA). The database setup procedures and tasks require the skill set of a database administrator. If you are not a database administrator, please stop. Improper setup may result in unwelcome changes to the database. Please consult with a qualified database administrator before proceeding.*

Microsoft SQL Server

JDBC Driver Class

"com.microsoft.jdbc.sqlserver.SQLServerDriver"

Supported Versions – 2005 SP/2 and 2008 SP/1

User Account Requirements

Create Table
Create Index
Execute on the SoftRater User Defined Stored Procedures

ORACLE

SoftRater database schema is support by all available ORACLE database platforms.

JDBC Driver Class

"oracle.jdbc.driver.OracleDriver"
Using prefix jdbc:oracle:thin:

Supported Versions – 10g, 11g

User Account Requirements

Create Table
Create Index
Query access to “SYS.OBJ$”

IBM DB2

SoftRater database schema is supported on all available DB2 database platforms.

JDBC Driver Class

“com.ibm.db2.jcc.DB2Driver”
For Native AS400 – “com.ibm.as400.access.AS400JDBCDriver”

Supported Version – 9.1

User Account Requirements

Create Table
Create Index
Query access to “SYSIBM.SYSTABLES”

Configuration Settings

- **Required**
  The query dynamics of the SoftRater system requires some modification to Configuration settings. The following Performance Configurations parameters required to the target SoftRater database.
  Instance Level – ASLHEAPSZ >= 1024
  Instance Level – QUERY_HEAP_SZ => 10240
  Database Level – APPLHEAPSZ >= 1024

- **Recommended**
  The query dynamics of the SoftRater system will benefit from the following modification to Configuration settings.

  Instance Level – INTRA_PARRALLEL (Yes) – For Symmetrical Processing Machines (CPU >=2)

  Database Level – DFT_DEGREE (-1) – For Symmetrical Processing Machines (CPU >=2). Allow the optimizer to determine the degree of intra-partition parallelism based on the number of processors and the type of query.

Native z/OS

Support for IBM DB2 for native z/OS requires a specific set of the DDL scripts. They are labeled in the ddls\db2 directory with the ZOS DB2.ZOS prefix. DBA’s should review these scripts, starting with the DB2.ZOS.SETUP.sql file that contains create templates for default; STORAGE GROUP, DATABASE, default TABLESPACE. All other table create scripts can be reviewed, altered and executed in any other to be consistent with chosen database standards.

Chapter 7

ACCESSING THE APPLICATION

You may be able to access the application by typing http://<ServerName or IP Address>:7001/IBSS

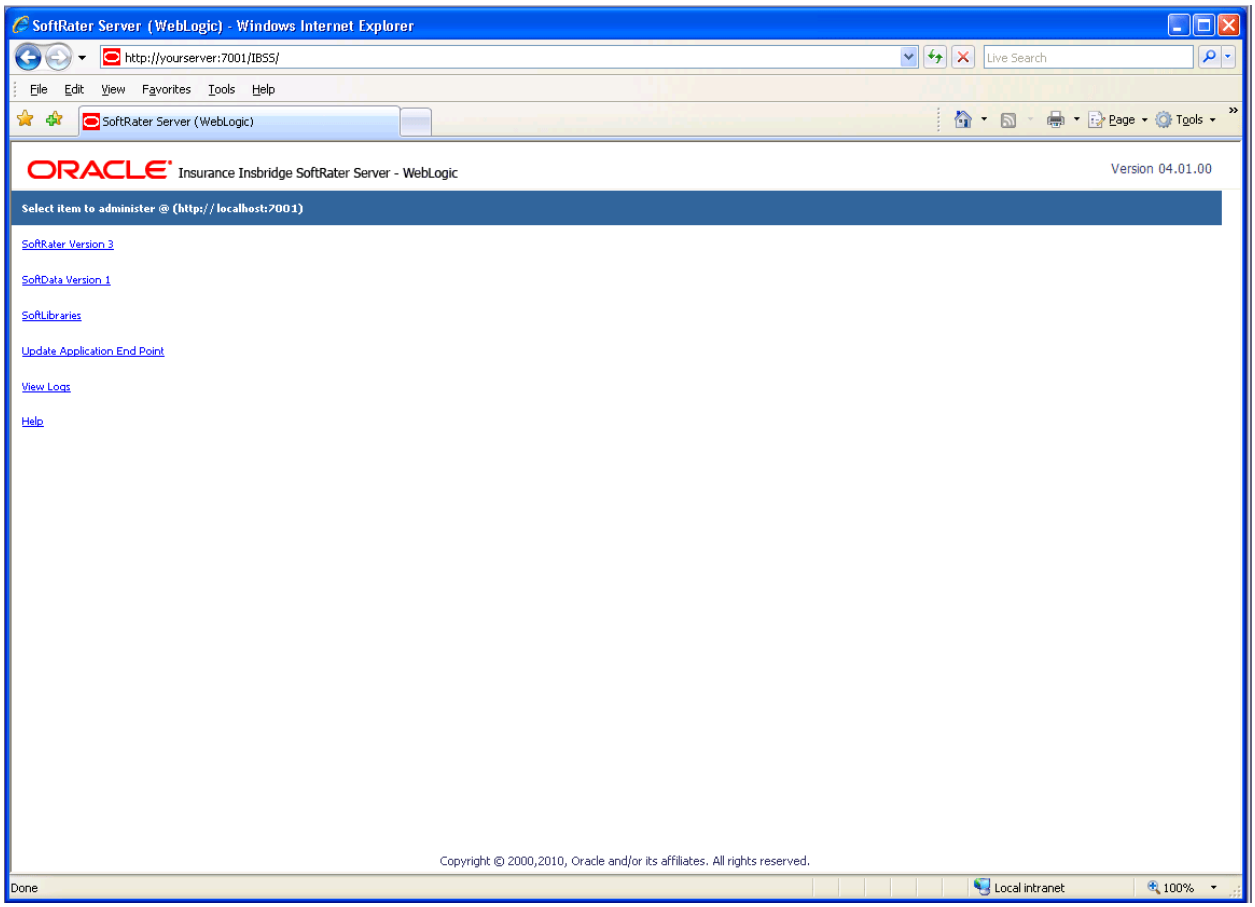


Figure 23 – IBSS Main Page

NOTE: *Notice that if you changed the WebLogic default port (7001) during the Server Domain creation, you should change the default application port on the "Update Application End Point" option located in the IBSS main page before accessing the application WebServices and methods.*

NOTE: *The IBSS parameter in the application URL must be capitalized.*

Chapter 8

SQL SERVER UPGRADE

If you are utilizing SQL Server and want to keep your current Environment settings, you will need to edit the insbridge.net.softraterconfig.xml file.

1. Deploy the new .EAR file.

2. Open the insbridge.net.softraterconfig.xml. The insbridge.net.softraterconfig.xml file will be located in the folder you setup when you initially installed SoftRater for WebLogic. For example, C:\Insbridge\config.

3. Make a back-up copy of this file.

4. In the insbridge.net.softraterconfig.xml file, find this section:

```
<jdbcDriver provider="1" name="SQLSERVER">
  <jdbcDriverClassName>com.microsoft.jdbc.sqlserver.SQLServerDriver</jdbcDriverClassName>
  <jdbcUrlPrefix>jdbc:microsoft:sqlserver://</jdbcUrlPrefix>
  <jdbcFetchSize>25</jdbcFetchSize>
</jdbcDriver>
```

   And replace it with this:

```
<jdbcDriver provider="1" name="SQLSERVER">
  <jdbcDriverClassName>com.microsoft.sqlserver.jdbc.SQLServerDriver</jdbcDriverClassName>
  <jdbcUrlPrefix>jdbc:sqlserver://</jdbcUrlPrefix>
  <jdbcFetchSize>25</jdbcFetchSize>
</jdbcDriver>
```

5. Restart the Application Server.

If you do not need your current environments:

1. Copy the existing insbridge.net.softraterconfig.xml and park it in a safe place. This is precautionary.

2. Copy the insbridge.net.softraterconfig.xml from the SoftRater for WebLogic 4.0.1 zip file.

3. Paste the new file over the current file. The insbridge.net.softraterconfig.xml file will be located in the folder you setup when you initially installed SoftRater for WebLogic. For example, C:\Insbridge\config.

If this is a new installation, you are not required to do any additional steps.

Chapter 9

UPGRADING THE APPLICATION

Oracle Insurance Insbridge Rating and Underwriting Release 4.1 has been tested and certified on WebLogic 10.3.1.

Insbridge Rating and Underwriting is no longer tested and certified on WebLogic 9.2.

UPGRADE NOTICE

This notice is for customers currently running a SoftRater for Java engine release 3.12 or previous. This includes:

- **SoftRater for WebLogic**
- **SoftRater for WebSphere**
- **SoftRater for JBoss**

Necessary updates have been made to the SoftRater for Java engines:

- **SoftRater for WebSphere has been updated to SOAP version 1.1**.
- **SoftRater for WebLogic has been updated to SOAP version 1.2**.
- **SoftRater for JBoss has been updated to SOAP version 1.2**.

These changes mean that the WSDLs for the SoftRater for Java engines have been modified. Updated WSDL documents will need to be incorporated into any client calling application that communicates with SoftRater. If upgrades are done to the SoftRater for Java engines without updating the calling applications, the calling application will fail.

Please update a test environment prior to deploying to production. Install the .EAR file in a test environment to obtain the WSDL. Update your calling application and then test again. When testing is complete, you can upgrade your other environments.

NOTE: *Customers running a Windows only environment, without a Java component, will not be affected.*

These updates are for the SoftRater for Java engines only.

UPGRADING FROM A PREVIOUS RELEASE

Upgrading from Oracle Insurance Insbridge Rating and Underwriting **Release 3.13.4 or previous** to release 4.1 will require the previous .EAR and config files to be removed. The new .EAR file can then be deployed and the new config file must be implemented.

WSDLs have been updated in this release. Any application making a call to SoftRater will need to be updated with the new WSDL. If upgrades are done to SoftRater for WebLogic without updating the calling application, the calling application will fail.

NOTE: UPGRADE YOUR TEST ENVIRONMENT PRIOR TO PRODUCTION.

1. Make a back-up copy of the current config file. The configuration information will need to be re-entered in IBSS. The updated config file will not contain this information. This information cannot be directly imported but a copy of the original file may be helpful when re-entering.
2. Stop the WebLogic Service.
3. Delete the old .EAR file.
4. Start the WebLogic Service.
5. Remove the old config file. Unzip the SoftRater for WebLogic file. Please see Locating the Configuration Files.
6. Verify that the system property is in the WebLogic Server. Please see Adding a System Property to WL Server.
7. Install the required library. Please see Step 1: Installation of Required Library.
8. Install the new .EAR file. Please see Step 2: Editing on the WebLogic Main Console.
9. Enter IBSS. You will need to re-enter the config information. Please see the Insbridge Rating and Underwriting SoftRater Server Guide.
10. If necessary, obtain any WSDL information from IBSS and update any calling application.
11. Test your configuration and updated calling applications before deploying to production.

NOTE: *You do not need to do an upgrade if you are running release 3.13.5, 4.0, or 4.1.*

CONTACTING SUPPORT

If you need assistance with an Oracle Insurance Insbridge Rating and Underwriting System product, please log a Service Request using My Oracle Support at https://support.oracle.com/.

Address any additional inquiries to:

Oracle Corporation
World Headquarters
500 Oracle Parkway
Redwood Shores, CA 94065
U.S.A.

Worldwide Inquiries:
Phone: +1.650.506.7000
Fax: +1.650.506.7200
oracle.com

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