

Oracle Insurance SoftRater for WebSphere Installation Guide

Version 3.11

December 2008

The Programs (which include both the software and documentation) contain proprietary information; they are provided under a license agreement containing restrictions on use and disclosure and are also protected by copyright, patent, and other intellectual and industrial property laws. Reverse engineering, disassembly, or decompilation of the Programs, except to the extent required to obtain interoperability with other independently created software or as specified by law, is prohibited.

The information contained in this document is subject to change without notice. If you find any problems in the documentation, please report them to us in writing. This document is not warranted to be error-free. Except as may be expressly permitted in your license agreement for these Programs, no part of these Programs may be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose.

If the Programs are delivered to the United States Government or anyone licensing or using the Programs on behalf of the United States Government, the following notice is applicable:

U.S. GOVERNMENT RIGHTS

Programs, software, databases, and related documentation and technical data delivered to U.S. Government customers are "commercial computer software" or "commercial technical data" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the Programs, including documentation and technical data, shall be subject to the licensing restrictions set forth in the applicable Oracle license agreement, and, to the extent applicable, the additional rights set forth in FAR 52.227-19, Commercial Computer Software--Restricted Rights (June 1987). Oracle USA, Inc., 500 Oracle Parkway, Redwood City, CA 94065.

The Programs are not intended for use in any nuclear, aviation, mass transit, medical, or other inherently dangerous applications. It shall be the licensee's responsibility to take all appropriate fail-safe, backup, redundancy and other measures to ensure the safe use of such applications if the Programs are used for such purposes, and we disclaim liability for any damages caused by such use of the Programs.

The Programs may provide links to Web sites and access to content, products, and services from third parties. Oracle is not responsible for the availability of, or any content provided on, third-party Web sites. You bear all risks associated with the use of such content. If you choose to purchase any products or services from a third party, the relationship is directly between you and the third party. Oracle is not responsible for: (a) the quality of third-party products or services; or (b) fulfilling any of the terms of the agreement with the third party, including delivery of products or services and warranty obligations related to purchased products or services. Oracle is not responsible for any loss or damage of any sort that you may incur from dealing with any third party.

Oracle, JD Edwards, and PeopleSoft are registered trademarks of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

Contents

FIGURES.....	4
PREFACE.....	5
<i>Audience.....</i>	<i>5</i>
<i>Additional Information.....</i>	<i>5</i>
<i>Notational Conventions</i>	<i>5</i>
<i>E-Delivery.....</i>	<i>6</i>
<i>Manual History</i>	<i>6</i>
CHAPTER 1	7
SYSTEM REQUIREMENTS	7
<i>IBM WebSphere 6.1.....</i>	<i>7</i>
<i>IBSR or IBRM Database Server.....</i>	<i>7</i>
CHAPTER 2	8
INSTALLATION PROCEDURES.....	8
<i>Create INSBRIDGE_APP_DIR in Name Space Bindings.....</i>	<i>8</i>
<i>Create an Insbridge Shared Library.....</i>	<i>10</i>
<i>Install the IBSS EAR</i>	<i>11</i>
<i>On the WebSphere Application Server</i>	<i>18</i>
<i>Assigning the Shared Insbridge Libraries</i>	<i>18</i>
CHAPTER 3	20
CREATING A SOFTRATER DATABASE	20
<i>IBM DB2</i>	<i>20</i>
<i>Microsoft SQL Server.....</i>	<i>21</i>
<i>ORACLE.....</i>	<i>22</i>
CHAPTER 4	23
SETTING UP INSBRIDGE.NET.SOFTRATERCONFIG.XML CONFIG FILE	23
CHAPTER 5	24
MANAGING SOFTRATER FOR WEBSHERE	24
<i>SoftRater Server Web</i>	<i>24</i>
<i>Update SOAP Services Configuration</i>	<i>30</i>
CHAPTER 6	32
SUPPORT	32
INDEX.....	33

Figures

Figure 1 Changing Scope to Server	8
Figure 2 Creating a New Name Space.....	9
Figure 3 Create Name Space Binding.....	9
Figure 4 Creating a Shared Library	10
Figure 5 Creating DB2 Library.....	10
Figure 7 Installing the IBSS EAR.....	11
Figure 8 Adding Default Bindings	12
Figure 9 Providing Options	13
Figure 10 Mapping to Application Servers	14
Figure 11 JSP reloading options for web modules.....	14
Figure 12 Map shared libraries.....	14
Figure 13 Initialize parameters for servlets	15
Figure 14 Providing JNDI Names.....	15
Figure 15 Mapping Virtual Hosts	15
Figure 16 Map context roots for Web Modules	15
Figure 17 Ensuring 2.x Methods.....	16
Figure 18 Summary	17
Figure 19 Shared Library References	18
Figure 20 Assigning Library.....	19
Figure 21 SoftRater Server Web	24
Figure 22 Configuring SoftRater Environments.....	25
Figure 23 Editing Options.....	25
Figure 24 Environmental Setup	27
Figure 25 Program Cache Options.....	28
Figure 26 WSDL File	29
Figure 27 Updating SOAP Services	30
Figure 28 Updating SOAP Endpoint.....	31

Preface

Welcome to the *Oracle Insurance Insbridge Rating and Underwriting WebSphere Installation Guide*. SoftRater for WebSphere is an EJB application that can be installed on an IBM WebSphere Application Server. SoftRater is the multi-platform rating engine component within the Insbridge Rating and Underwriting System (IBRU) that executes the rating and underwriting instructions as defined by the user in RateManager.

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 SoftRater Server.

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 WebSphere.

Additional Information

For more information, see these Oracle Insurance resources:

- Oracle Insurance IBSS User Guide

Notational Conventions

This section explains the conventions used in this book:

- Menu selections are shown with arrows. For example, the command to select the **Print** choice from the **File** menu looks as follows:

Select **File**►**Print**

- File names, path names and actions to be taken are shown in **bold**.
- New or emphasized terms are shown in *italics*.
- `Monospace` type indicates code that appears on the screen or that you must enter.

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 WebSphere 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 WebSphere 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. For example, the SoftRater for WebSphere 3.11.1 installation file is part # 15143-01 and file name V15143-01. This information may be required if you need to contact Oracle Insurance Support.

The SoftRater for WebSphere version 3.11.1 zip file will contain:

- The 3.11.1-insbridge-was-eng File

License files are no longer 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 Version	Publication Date	Comment
1 st Edition	P01-706-01			
2 nd Edition	P01-706-02	V 3.5		
3 rd Edition	P01-706-03	V 3.6	03/14/2006	Update 3.6
4 th Edition	P01-706-04	V 3.6	08/09/2006	Update logo
5 th Edition	P01-706-05	V 3.7	10/05/2006	Update to 3.7
6 th Edition	P01-706-06	V 3.8	7/19/2007	Update to 3.8
7 th Edition	P01-706-07	V 3.8.3	10/19/2007	Update to 3.8.3
8 th Edition	P01-706-08	V 3.8.5	November 2007	Update to 3.8.5
9 th Edition	P01-706-09	V 3.8.7	January 2008	Update to 3.8.7
10 th Edition	P01-706-10	V 3.8.8	March 2008	Update to 3.8.8
11 th Edition	P01-706-11	V 3.9	May 2008	Update to 3.9
12 th Edition	P01-706-12	V 3.10.0	September 2008	Update to 3.10
13 th Edition	P01-706-13	V 3.11	December 2008	Update to 3.11

System Requirements

IBM WebSphere 6.1

SoftRater for WebSphere has been installed and tested on IBM WebSphere Advanced Server version 6.1 and up.

IBSR or IBRM Database Server

SoftRater for WebSphere can utilize either an IBSR (SoftRater) or IBRM (RateManager) database. For a production environment, Oracle Insurance suggests only using a complete IBSR database.

See page 20 below for more details on creating the IBSR database.

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.

Installation Procedures

Create INSBRIDGE_APP_DIR in Name Space Bindings

SoftRater uses an XML configuration (insbridge.net.softraterconfig.xml) file to store information in the configured rating environments. This file needs to be accessible to the IBSS in order to operate. The location to define where the config file is located is stored using a Name Space Binding string in the WebSphere server configuration.

To create the INSBRIDGE_APP_DIR string, from the WebSphere Admin console, browse to the following location:

Environment → Naming → Name Space Bindings

Change the scope to the **Server** level by selecting it and click **Apply**.

Name Space Bindings

Name Space Bindings

Use this page to configure a name binding of a constant string value, an enterprise bean, a CORBA CosNaming Naming Context or CORBA leaf node object, or an object that can be looked up by using JNDI.

☐ Scope: Cell=**cell**, Node=**node**, Server=**server1**

Scope specifies the level at which the resource definition is visible. For detailed information on what scope is and how it works, [see the scope settings help](#)

Node=node, Server=server1

☐ Pref All scopes
Cell=cell
Node=node
Node=node, Server=server1

Figure 1 Changing Scope to Server

Once you have changed to the server level, click **New**.

New Name Space Binding

Use this wizard to configure a new name space binding.

→ **Step 1: Specify binding type**

Step 2: Specify basic properties

Step 3: Summary

Specify binding type

Binding type

- ☒ String
- ☐ EJB
- ☐ CORBA
- ☐ Indirect

Next **Cancel**

Figure 2 Creating a New Name Space

Select **String** and then click **Next**.

New Name Space Binding

Use this wizard to configure a new name space binding.

Step 1: Specify binding type

→ **Step 2: Specify basic properties**

Step 3: Summary

Specify basic properties

Binding type
String

* Binding identifier
[Text Field]

* Name in name space
[Text Field]

* String value
[Text Field]

Previous **Next** **Cancel**

Figure 3 Create Name Space Binding

Create a Name Space Binding at the server level called `INSBRIDGE_APP_DIR`. The actual string value is the directory path location where the `insbridge` config file will be located relative to the WebSphere server.

Then select **Next** and **Finish**. Save to the master configuration.

More details regarding the config file are located on page 23, Configuration of the Insbridge Framework Components.

Create an Insbridge Shared Library

If you are utilizing a DB2 database, you must create an Insbridge shared library. If you are not using DB2, you can proceed to installing the IBSS EAR.

The Insbridge SoftRater for WebSphere uses a shared library to contain the DB2 information. The JAR file must be copied to the WebSphere Application Server. The DB2 JAR file should be in your DB2 installation folder java directory. You may also download this file from IBM directly.

To create the shared library from the WebSphere Admin console, browse to the following location:

Environment → Shared Libraries

By default, it should be at the Node scope. Change the scope to Node = node, Server = server1 by selecting it and then click **Apply** so that the screen looks similar to:

Shared Libraries

Use this page to define a container-wide shared library that can be used by deployed applications.

☒ Scope: Cell=**cell**, Node=**node**, Server=**server1**

Scope specifies the level at which the resource definition is visible. For detailed information on what scope is and how it works, [see the scope settings help](#)

Node=node, Server=server1

Figure 4 Creating a Shared Library

Click **New** and fill out the information as shown below.

Configuration		
General Properties		
Name	<input type="text" value="DB2_JAR_FILE"/>	<small>The name of the shared library</small>
Description	<input type="text" value="DB2 Jar file."/>	<small>An optional description for this shared library.</small>
Classpath	<input type="text" value="P:\nsbridge\DB2\vb2jcc.jar"/>	<small>A classpath containing this library's jar(s). Classpath entries are separated by using the ENTER key and must not contain path separator characters (such as '/' or '\'). Classpaths may contain variable (symbolic) names which can be substituted using a variable map.</small>
Native Library Path	<input type="text"/>	<small>An optional path to any native libraries (.dll's, .so's) required by this shared library.</small>
<input type="button" value="Apply"/> <input type="button" value="OK"/> <input type="button" value="Reset"/> <input type="button" value="Cancel"/>		

Figure 5 Creating DB2 Library

Click on **OK** and then **Save** to apply the changes to the master configuration.

IMPORTANT

The classpath is the location of the Insbridge\DB2\db2jcc.jar file on the WebSphere server. The share directory has to be wherever the drive is located.

Install the IBSS EAR

Log on to the Administrative Console ex: http://WAS_SERVER:9080/admin/

Select Application → Install New Application

Select the location from where to upload the EAR file and select **Next**.

Preparing for the application installation

Specify the EAR, WAR, JAR, or SAR module to upload and install.

Path to the new application

☒ Local file system

Full path
C:\Documents and Settings Browse...

☐ Remote file system

Full path
Browse...

Context root
Used only for standalone Web modules (.war files) and SIP modules (.sar files)

How do you want to install the application?

☐ Prompt me only when additional information is required.

☒ Show me all installation options and parameters.

Next Cancel

Figure 6 Installing the IBSS EAR

Choose the default bindings.

Preparing for the application installation

Choose to generate default bindings and mappings.

☐ Generate Default Bindings

Prefixes:

☒ Do not specify unique prefix for beans

☐ Specify Prefix:

Prefix
ejb

Override:

☒ Do not override existing bindings

☐ Override existing bindings

Virtual Host

☒ Do not use default virtual host name for Web or SIP modules

☐ Use default virtual host name for Web and SIP modules:

Host name
default_host

Specific bindings file
Browse...

Previous Next Cancel

Figure 7 Adding Default Bindings

Make sure settings are:

- **Prefixes** – Do not specify unique prefix for beans
- **Override** – Do not override existing bindings
- **Virtual Host** – Do not use default virtual host name for Web or SIP modules

Click **Next** to continue.

NOTE

This screen will only be displayed if you selected “*Show all installation options and parameters*” on the previous screen.

Provide Options to suit your environment. We suggest selecting Pre-compile JSP for improved performance.

[Step 2](#) Map modules to servers

[Step 3](#) Provide JSP reloading options for Web modules

[Step 4](#) Map shared libraries

[Step 5](#) Initialize parameters for servlets

[Step 6](#) Provide JNDI names for beans

[Step 7](#) Map virtual hosts for Web modules

[Step 8](#) Map context roots for Web modules

[Step 9](#) Ensure all unprotected 2.x methods have the correct level of protection

[Step 10](#) Summary

Specify the various options that are available to prepare and install your application.

☐ Precompile JavaServer Pages files

Directory to install application

☒ Distribute application

☐ Use Binary Configuration

☐ Deploy enterprise beans

Application name

☒ Create MBeans for resources

☐ Enable class reloading

Reload interval in seconds

☐ Deploy Web services

Validate Input off/warn/fail

☐ Process embedded configuration

File Permission

Allow all files to be read but not written to

Allow executables to execute

Allow HTML and image files to be read by everyone

Application Build ID

☐ Allow dispatching includes to remote resources

☐ Allow servicing includes from remote resources

Figure 8 Providing Options

Click **Next** to continue.

NOTE

This screen will only be displayed if you selected “*Show all installation options and parameters*” on the first screen.

Map modules to application servers.

Map modules to servers

Specify targets such as application servers or clusters of application servers where you want to install the modules that are contained in your application. Modules can be installed on the same application server or dispersed among several application servers. Also, specify the Web servers as targets that serve as routers for requests to this application. The plug-in configuration file (plugin-cfg.xml) for each Web server is generated, based on the applications that are routed through.

Clusters and Servers:

WebSphere:cell=oracle-ro5nh1cNode01Cell,node=oracle-ro5nh1cNode01,server=server1

Select	Module	URI	Server
<input type="checkbox"/>	SoftRaterEJB	SoftRaterEJB.jar,META-INF/ejb-jar.xml	WebSphere:cell=oracle-ro5nh1cNode01Cell,node=oracle-ro5nh1cNode01,server=server1
<input type="checkbox"/>	SoftServicesEJB	SoftServicesEJB.jar,META-INF/ejb-jar.xml	WebSphere:cell=oracle-ro5nh1cNode01Cell,node=oracle-ro5nh1cNode01,server=server1
<input type="checkbox"/>	InsBridge.Fwk.WEB	InsBridge.Fwk.WEB.war,WEB-INF/web.xml	WebSphere:cell=oracle-ro5nh1cNode01Cell,node=oracle-ro5nh1cNode01,server=server1

Figure 9 Mapping to Application Servers

Provide JSP reloading options for Web modules

Provide JSP reloading options for Web modules

Servlet and JSP 's reload attributes can be specified per module.

Web module	URI	JSP enable class reloading	JSP reload interval in seconds
InsBridge.Fwk.WEB	InsBridge.Fwk.WEB.war,WEB-INF/ibm-web-ext.xmi	<input checked="" type="checkbox"/>	<input type="text" value="10"/>

Figure 10 JSP reloading options for web modules

Map Shared Libraries

Map shared libraries

Specify shared libraries that the application or individual modules reference. These libraries must be defined in the configuration at the appropriate scope.

Reference shared libraries

Select	Application	URI	Shared Libraries
<input checked="" type="checkbox"/>	InsBridge.Fwk.APP	META-INF/application.xml	

Select	Module	URI	Shared Libraries
<input checked="" type="checkbox"/>	InsBridge.Fwk.WEB	InsBridge.Fwk.WEB.war,WEB-INF/web.xml	

Figure 11 Map shared libraries

Initialize parameters for servlets

Initialize parameters for servlets					
Servlet's initial parameter defined in the deployment descriptor can be edited.					
Web module	URI	Servlet	Name	Description	Value
InsBridge.Fwk.WEB	InsBridge.Fwk.WEB.war,WEB-INF/web.xml	rpcrouter	faultListener		<input type="text" value="org.apache.soap.server."/>
InsBridge.Fwk.WEB	InsBridge.Fwk.WEB.war,WEB-INF/web.xml	messengerouter	faultListener		<input type="text" value="org.apache.soap.server."/>

Figure 12 Initialize parameters for servlets

Provide JNDI Names for Beans – accept the default.

Provide JNDI names for beans			
Each non-message-driven enterprise bean in your application or module must be bound to a Java Naming and Directory Interface (JNDI) name.			
EJB module	EJB	URI	Target Resource JNDI Name
SoftRaterEJB	SoftRater	SoftRaterEJB.jar,META-INF/ejb-jar.xml	<input type="text" value="ejb/com/insbridge/softs"/>
SoftRaterEJB	SoftData	SoftRaterEJB.jar,META-INF/ejb-jar.xml	<input type="text" value="ejb/com/insbridge/softd"/>
SoftServicesEJB	SoftServicesGateway	SoftServicesEJB.jar,META-INF/ejb-jar.xml	<input type="text" value="ejb/com/insbridge/softs"/>

Figure 13 Providing JNDI Names

Map Virtual Hosts.

Map virtual hosts for Web modules		
Specify the virtual host where you want to install the Web modules that are contained in your application. You can install Web modules on the same virtual host or disperse them among several hosts.		
<input checked="" type="checkbox"/> Apply Multiple Mappings		
<div> <input checked="" type="checkbox"/> <input type="checkbox"/> </div>		
Select	Web module	Virtual host
<input checked="" type="checkbox"/>	InsBridge.Fwk.WEB	<input type="text" value="default_host"/>

Figure 14 Mapping Virtual Hosts

Map context roots for Web modules

Map context roots for Web modules		
Context root defined in the deployment descriptor can be edited.		
Web module	URI	ContextRoot
InsBridge.Fwk.WEB	InsBridge.Fwk.WEB.war,WEB-INF/web.xml	<input type="text" value="IBSS"/>

Figure 15 Map context roots for Web Modules

Ensure all unprotected 2.x methods have the correct level of protections.

Ensure all unprotected 2.x methods have the correct level of protection

Specify whether you want to assign a security role to the unprotected method, add the method to the exclude list, or mark the method as cleared.

☒ Uncheck
☐ Exclude
☐ Role:

Select	EJB module	URI	Protection type
<input type="checkbox"/>	SoftRaterEJB	SoftRaterEJB.jar,META-INF/ejb-jar.xml	methodProtection.uncheck
<input type="checkbox"/>	SoftServicesEJB	SoftServicesEJB.jar,META-INF/ejb-jar.xml	methodProtection.uncheck

Figure 16 Ensuring 2.x Methods

Verify your selections on the Summary screen.

Install New Application ?

Specify options for installing enterprise applications and modules.

[Step 1](#) Select installation options

[Step 2](#) Map modules to servers

[Step 3](#) Provide JSP reloading options for Web modules

[Step 4](#) Map shared libraries

[Step 5](#) Initialize parameters for servlets

[Step 6](#) Provide JNDI names for beans

[Step 7](#) Map virtual hosts for Web modules

[Step 8](#) Map context roots for Web modules

[Step 9](#) Ensure all unprotected 2.x methods have the correct level of protection

→ **Step 10: Summary**

Summary

Summary of installation options

Options	Values
Precompile JavaServer Pages files	No
Directory to install application	
Distribute application	Yes
Use Binary Configuration	No
Deploy enterprise beans	No
Application name	InsBridge.Fwk.APP
Create MBeans for resources	Yes
Enable class reloading	No
Reload interval in seconds	
Deploy Web services	No
Validate Input off/warn/fail	warn
Process embedded configuration	No
File Permission	.*\,dll=755#.*\,so=755#.*\,a=755#.*\,sl=755
Application Build ID	Unknown
Allow dispatching includes to remote resources	No
Allow servicing includes from remote resources	No
Cell/Node/Server	Click here

Previous

Finish

Cancel

Figure 17 Summary

Select **Finish**. After installation, save to the master configuration.

On the WebSphere Application Server

The location of the SoftRater config file is retrieved from the name space binding string created on page 8 described previously. This is the directory location where the SoftRater retrieves the insbridge.net.softaterconfig.xml configuration file.

A default blank insbridge SoftRater config file is located under

\$WAS_HOME/installedApps/NODENAME/Insbridge.Fwk.APP.ear/config.
Copy this default config file to the INSBRIDGE_APP_DIR folder.

Assigning the Shared Insbridge Libraries

From the WebSphere Admin console, browse to Applications → Enterprise Applications and select Insbridge.Fwk.APP to modify the extended properties. At the bottom of the screen select the Shared Library references link to assign the libraries. Select Insbridge.Fwk.App and click Reference shared libraries

Enterprise Applications ?

[Enterprise Applications](#) > [InsBridge.Fwk.APP](#) > **Shared library references**

Shared Library Mapping for Modules

Specify shared libraries that the application or individual modules reference. These libraries must be defined in the configuration at the appropriate scope.

Reference shared libraries			
Select	Application	URI	Shared Libraries
<input checked="" type="checkbox"/>	InsBridge.Fwk.APP	META-INF/application.xml	
Select	Module	URI	Shared Libraries
<input type="checkbox"/>	InsBridge.Fwk.WEB	InsBridge.Fwk.WEB.war,WEB-INF/web.xml	

Figure 18 Shared Library References

Select **JWLLib** and, if you are running DB2, the **DB2_JAR_FILE**, and add both to right hand side.

Click **OK**.

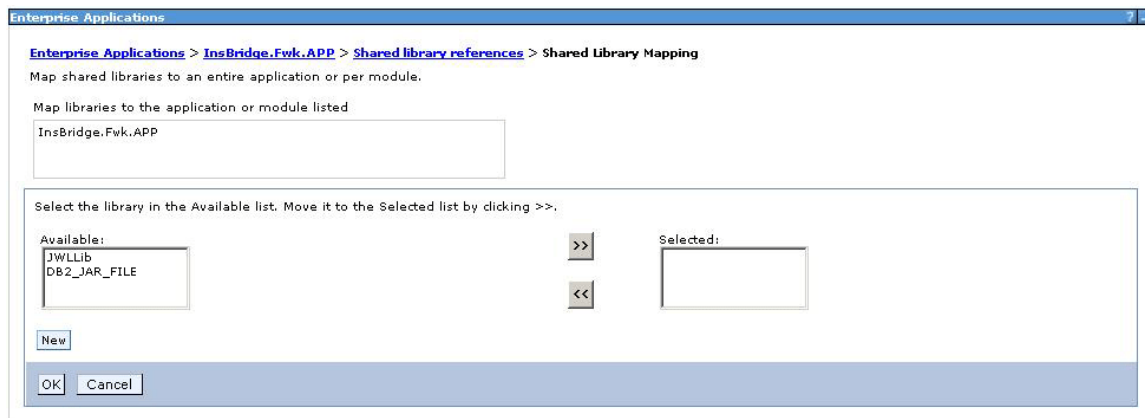


Figure 19 Assigning Library

Click **OK** and then save to the master configuration.

NOTE

The **DB2_JAR_FILE** will be displayed if you are using a DB2 database. If you are not using a DB2 database, this option will not be available.

The Insbridge SoftRater Server EAR may now be started from the WSAS Administrative Console.

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 config/ddl subdirectory in the "Insbridge.Fwk.APP" WebSphere installation directory.

I.e.: \$WAS_HOME/installedApps/NODENAME/Insbridge.Fwk.APP.ear/config/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.

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

7, 8

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.

Microsoft SQL Server

JDBC Driver Class

“com.microsoft.jdbc.sqlserver.SQLServerDriver”

Supported Version

2000, 2005

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 Version

9, 10

User Account Requirements

Create Table
Create Index
Query access to "SYS.OBJ\$"

Setting up Insbridge.net.softraterconfig.xml Config file

The SoftRater requires a single configuration file “insbridge.net.softraterconfig.xml”. After the EAR installation, a default setup copy of this file is in the “Insbridge.Fwk.APP” installation subdirectory. Before starting the configuration setup process, copy this default file to the following WebSphere setup folder to the INSBRIDGE_APP_DIR. All administrative setup options are saved in this file.

NOTE

If the location is either not defined or not configured, then the SoftRater will default to the old legacy location of \$WSAS_HOME\etc\insbridge folder to look for the configuration file.

NOTE

The user names and passwords stored in the SoftRater config file are encrypted and cannot be manually changed except from the IBSS Admin interface.

The location where the config file resides is defined by the INSBRIDGE_APP_DIR as created on page 8 above. This location can be anywhere on the server as long as the identity of the process running the WebSphere AppServer has access rights to the defined folder.

For added security, after all the SoftRater environments have been configured and tested, the config file can be made read-only. Thereby no modifications can be made from the IBSS interface until the server administrator makes the file writable.

Managing SoftRater for WebSphere

- All management functions should be performed by the IBSS admin interface available at: http://WAS_SERVER:PORT/IBSS/
- On a default WebSphere installation, this location will be http://WAS_SERVER:9080/IBSS/

NOTE

You may have to update the SOAP Services and Admin Endpoint before being able to administer the SoftRater server. Please check with your local WebSphere Administrator to find the correct values required.

- Most of the management functions are self-explanatory but further explanations are provided below.

SoftRater Server Web

At the first screen of the Insbridge SoftRater Server the following will be displayed:

SoftRater Server - WebSphere Version 2.0.0.61 Build: 002

Selected item to administer @ (http://localhost:9080)

[SoftRater Version 6](#)

[SoftData Version 1](#)

[SoftLibraries](#)

[Update SOAP Services Configuration](#)

[Update Application End Point](#)

[View Logs](#)

[Help](#)

Figure 20 SoftRater Server Web

At this page, you can see the SoftRater Server web version, and be able to connect to the SoftRater, Update the SOAP Services configuration, or Update the SOAP Admin Endpoint. All of these options are discussed below in greater detail.

SoftRater Version

From this location, the administrator will be able to configure the SoftRater environments, submit rating xml files, and perform general maintenance on SoftRater.

SoftRater Server - WebSphere Version 2.0.0.61 Build: 002

SoftRater Administrator

- [Edit Options](#)
- [Environment Setup](#)
- [Reset Environments](#)
- [Submit InsBridge \(xml\)](#)
- [Submit Custom \(xml\)](#)
- [Program Cache](#)
- [Get Version](#)
- [Get Config Path](#)
- [Get Sample Files](#)
- [Set WSDL \(url\)](#)
- [Get WSDL \(url\)](#)
- [Home](#)

* Select an action to perform from the left pane.

Figure 21 Configuring SoftRater Environments

Edit Options

Altering base operational configurations and settings.

*** Edit Configuration Settings**

Status:

Date Last Modified 01/26/2009 03:25:39 PM

DB Auto Release ☒

Auto Logging ☒ SQL ☒ XML ☒ Program Template

Show Time Stats ☒ Start ☒ Stop ☒ Running

Location Name

Logs Dir

Figure 22 Editing Options

Edit Configuration Settings has these Options:

- **Date Last Modified** – Is the last date a change was made to the configuration
- **DB Auto Release** – This option is used to signal the system to automatically release all data base connections at the earliest possible occurrence.
- **Auto Logging** – This should only be used for debugging purpose, i.e. trying to find why the error is occurring in the system.
- **Show Time Stats** – Signals the system to provide specific time tracking statistics as part of the XML response content returned to a request.
- **Location Name** – Labels the configured site. Will be returned as part of the XML response content for each transaction to show the originating site for the result.
- **Logs Dir** – Physical directory for storage of operational error logs.

General logs written to the Logs Dir and a brief description:

- **SQL:** The SQL script that was executed. If this option is not selected, this information will still be logged if an error occurs.
- **XML:** The XML that was used. If this option is not selected, this information will still be logged if an error occurs.
- **Program Template:** Provides an XML view of the entire program that was executed. This information is used to help Skywire Software determine why a program is not rating correctly.

Environment Setup

Addition and Edit of operational environments.

* Environment Setup

Status:

SELECT ENVIRONMENT >> Add New Environment <<

Environment Name*	<input type="text" value="DB2"/>	Company Id*	<input type="text" value="775"/>
Database Server*	<input type="text" value="10.100.100.100"/>	Port*	<input type="text" value="50000"/>
Database Name*	<input type="text" value="IBSR"/>	Schema name**	<input type="text" value="IBSR"/>
Database User Id*	<input type="text" value="dasusr1"/>		
Database Password*	<input type="password" value="••••••••"/>		
Provider Type	<input type="text" value="DB2"/>		
Database Type	<input type="text" value="SoftRater"/>		
Data Dir	<input type="text" value="[DIRECTORY]\"/>		

* Fields are required.
** Fields required for an Oracle DB connection.

<input type="button" value="Save"/>	<input type="button" value="Exit"/>	<input type="button" value="Test Connection!"/>	<input type="button" value="Delete!"/>
-------------------------------------	-------------------------------------	---	--

Figure 23 Environmental Setup

Environmental Setup has these Options:

- **Select Environment** – Select an Environment setup to view or select to add a new environment.
- **Environment Name** – Display and XML response name for environment.
- **Company Id** – Should default to your given Insbridge Subscriber Identification #.
- **Database Server** – Resolved name or IP address to the physical server hosting the target Database Management System (DBMS).
- **Port** – (Optional) Listening port to the target Database Management System.
- **Query Block** – (Optional) For certain DBMS system batch query optimization is required for performance and / or because of limits on in system. This value will control the maximum number of batch query operations that can be submitted to the target DBMS at any one transaction. It is known that for certain DB2 platform versions a value of 31 is required because of a hard software limit.
- **Database Name** – Physical name of the target database.
- **Database User Id** – DBMS User and schema name used to gain access to the system and system resources.

- **Database Password** – DBMS Password for the entered User Id.
- **Provider Type** – Type of target DMBS.
- **Database Type** – Notification of environment source either a [RateManager] system database or [SoftRater] system database.
- **Data Dir** – (Optional) N/A. For future use.
- **Buttons**
 - **[Test Connection]** – Select this button option to test system connectivity to the configured environment database system.
 - **[Delete]** – Select this button option to remove the currently selected environment from the list of available.

Reset Environment

After a change to the Environment is made, a reset must be performed to cause the SoftRater to reread the configuration.

Submit Insbridge (xml)

Used for testing purposes. Submit XML files from Insbridge.

Submit Custom (xml)

Used for testing purposes. Submit custom XML files.

Program Cache

Signals the system to store program version package content in the cache after the first selection.

The Clear All button can be used to clear all the cached program packages.

* Program Cache Options

Status:

Date Last Modified 09/18/2008 01:32:04 PM

Enable Caching ☒

Save

Exit

Program Listing:

Remove!	Name	Env Source	Total Bytes	Total Hit Rows	Total Miss Rows	Package Creation Date	Cached Enabled Date
Empty							

Refresh

Clear All

Figure 24 Program Cache Options

Get Version

Display SoftRater release version.

Get Config Path

Show configuration path relative to the WebSphere Application Server.

Get Sample Files

The Get Sample files link will allow you to view WSDL files.

*** Get SoftRater WSDL Files**

Select the WSDL file to view.

SoftRater.wsdl

SoftRaterEJB.wsdl

SoftRaterBinding.wsdl

SoftRaterService.wsdl

SoftRaterProxy.txt

Figure 25 WSDL File

Set WSDL (url)

Used to change the default SOAP proxy URL.

Get WSDL (url)

Displays the default SOAP proxy URL.

Update SOAP Services Configuration

The following settings will not have to be changed unless under the direction of an experienced WebSphere administrator. These settings should only be changed if using either WebSphere ND or the standard WebSphere install configuration has been modified from the default to suit your environment.

SoftRater Server - WebSphere Version 2.0.0.61 Build: 002

Edit SOAP Deployment Configuration Settings

Status: Select the Web Services fields to update.

SoftRater EJB

JNDIName	<input type="text" value="ejb/com/insbridge/sofrater/SoftRaterHome"/>
ContextProviderURL	<input type="text" value="iiop://localhost:2809"/>
FullHomeInterfaceName	<input type="text" value="com.insbridge.sofrater.SoftRaterHome"/>
FullContextFactoryName	<input type="text" value="com.ibm.websphere.naming.WsnInitialContextFactory"/>

SoftData EJB

JNDIName	<input type="text" value="ejb/com/insbridge/softdata/SoftDataHome"/>
ContextProviderURL	<input type="text" value="iiop://localhost:2809"/>
FullHomeInterfaceName	<input type="text" value="com.insbridge.softdata.SoftDataHome"/>
FullContextFactoryName	<input type="text" value="com.ibm.websphere.naming.WsnInitialContextFactory"/>

SoftServices Gateway EJB

JNDIName	<input type="text" value="ejb/com/insbridge/softservices/SoftServicesGatewayHome"/>
ContextProviderURL	<input type="text" value="iiop://localhost:2809"/>
FullHomeInterfaceName	<input type="text" value="com.insbridge.softservices.SoftServicesGatewayHome"/>
FullContextFactoryName	<input type="text" value="com.ibm.websphere.naming.WsnInitialContextFactory"/>

Figure 26 Updating SOAP Services

In a WebSphere 5.x ND/Load balanced environment, the JNDIName on each cluster node, will need to be modified from the standard shown above, to a format similar to:

cell/clusters/CLUSTERNAME/ejb/insbridge/....

IMPORTANT

Oracle Insurance currently supports WebSphere 6.1 ND. However, SoftRater is able to run on a WebSphere 7.x ND environment.

clusters/CLUSTERNAME/ejb/insbridge/....

A useful tool for discovering the JNDI Namespaces is available in the \$WSAS_HOME\bin folder called dumpNameSpace.sh or dumpNameSpace..bat. The utility can be run without any command line arguments to retrieve all the available JNDI name spaces.

WARNING

If these settings are different from the default WebSphere installation, then you must contact your WebSphere support personnel to provide these settings to you.

Update Application End Point

Configuration location for changing from the default SOAP endpoint to a custom setting as dictated by the WebSphere configuration. No changes are required unless specified by a WebSphere administrator.

Edit SOAP Endpoint Configuration Setting

Status: Update the SOAP Endpoint.

SOAP Endpoint

Save

Exit

Figure 27 Updating SOAP Endpoint

NOTE

If this setting is different from the default WebSphere installation, then you must contact your WebSphere support personnel to provide this setting for you.

If during the installation or configuration of the Insbridge Rating and Underwriting Solution you receive an error or need a question answered, please contact Support at support-skywire_ww@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

Index

\$

\$WSAS_HOME\etc\insbridge23

2

2.2 Methods
Protecting 16

A

Application Servers
Mapping 14
Auto Logging
Program Template26
SQL26
XML26

B

Bindings
Creating8
Default12

C

Classpath
Insbridge\DB2\db2jcc.jar File 10
Config File
SoftRater Encrypted23
config/ddl subdirectory20
Configuration File
insbridge.net.softaterconfig.xml 18
Configuration Settings
DB221
DB2 Modifications21
Configuring
SoftRater Environments25
Creating
Name Space Binding9

D

Database
IBM DB2 Support20
IBSR7
MS SQL Support21

ORACLE Support 22
Server 7
SoftRater 20
Database Definition Language Scripts 20
DB2
zOS 21
DB2 Database
Configuration Settings 21
JDBC Driver Class 20
Recommendations 21
SoftRater Database Schema 20
Supported Version 20
User Account Requirements 20
DBA 20
DBMS 20
DDL 20
DDL scripts
zOS on DB2 21
ddl\db2 Directory 21
Directory
ddl\db2 21
dumpNameSpace.bat 31
dumpNameSpace.sh 31

E

EAR
Started from WSAS Admin Console 19
EAR File 11
Edit Options 25
Edition Notice 2
Endpoint
Different from WebSphere 31
SOAP, Changing 31
Environment Setup 27
Extended Properties
Modifying 18

F

File
Configuration
insbridge.net.softaterconfig.xml 18
EAR 11
Insbridge\DB2\db2jcc.jar File 10
Security on Config 23
SoftRater Config 18

I

IBRM

System Requirements.....	7
IBRU	6
IBSR	
Database	7
System Requirements.....	7
IBSS.....	5
Installing EAR File.....	11
JNDI Names.....	15
Options.....	13
IBSS Admin interface	
Changing User ID and Passwords.....	23
Insbridge SoftRater Server	5
Insbridge.Fwk.APP	18
InsBridge.Fwk.APP	23
insbridge.net.softmaterconfig.xml	
Configuration File	23
Configuring	18
INSBRIDGE_APP_DIR	8, 9, 23
Folder	18
Insbridge\DB2\db2jcc.jar File	
Classpath	10
Installing	
IBSS EAR.....	11
InsBridge.Fwk.APP	23

J

JAR File	
WebSphere Application Server.....	10
JDBC Connection Drivers.....	20
JNDI Names	15

L

Library	
Assigning Shared Libraries	18
Shared.....	10

M

Mapping	
Modules.....	14
Virtual Hosts	15
Modules	
Mapping	14

N

Name Space Binding	
Creating.....	9
Name Space Binding String	8
Node Scope	
Shared Library.....	10
Notational Conventions	5

O

Options	
IBSS EAR.....	13
ORACLE	
SoftRater Database Schema	22
ORACLE Database	
JDBC Driver Class	22
Supported Version	22
User Account Requirements	22

P

Passwords	23
Performance Configurations Parameters	
SoftRater Database.....	21
Pre-compile JSP	
Options'	13
Program Template	
Auto Logging	26
Protecting	
2.2 methods.....	16

R

Requirements	
DB2 Database	20
ORACLE Database	22
SoftRater EJB Data Access System	20
SQL Server.....	21
TCP/IP Connection	20

S

Scripts	
Database Definition Language.....	20
Server Web Version	
SoftRater	24
Shared Library	
Creating.....	10
SOAP	
Endpoint, Changing.....	31
Endpoint, Default.....	31
Services and Admin Endpoint.....	24
SoftRater	
Default Config File.....	23
Performing General Maintenance	25
Security on Config File	23
Server Web Version	24
Supported Databases	20, 21, 22
System Requirements.....	7
Updating SOAP Endpoint.....	24
SoftRater Database	20
SQL	

Auto Logging	26
SQL Server	
JDBC Driver Class	21
SoftRater Database Schema	21
Supported Version	21
User Account Requirements	21
String	
Name Space Binding	8
WebSphere	8
Subdirectory	
Installation	23
Summary Screen	17
Support	32
System Requirements	
IBRM	7
IBSR	7
WebSphere	7

T

Table of Contents	3
TCP/IP Connection	
To DB Platform	20

U

Updating	
SOAP Services	30
User Names	23

V

Virtual Hosts	
Mapping	15

W

WebSphere	
Creating String	8
Different Endpoint	31
Managing SoftRater	24
System Requirements	7
Updating SOAP	30
Viewing in Installation Directory	20
WebSphere Application Server	
JAR File	10
WSAS Administrative Console	19

X

XML	
Auto Logging	26
XML Configuration	8

Z

z/OS	
BD2	21
ZOS DB2.ZOS	21