

Oracle Insurance

**Insbridge Rating and
Underwriting
SoftRater for JBoss
Installation Guide**

Release 4.1

December 2010

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Oracle Insurance Insbridge Rating and Underwriting SoftRater for JBoss Installation Guide

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CONTENTS

PREFACE	IV
Audience	iv
Related Documents	iv
Conventions	iv
System Requirements.....	v
E-Delivery.....	v
Manual History	v
CHAPTER 1	
INSTALLATION PROCEDURES	6
Development Notes	6
Step 3: Creating a New Server Configuration.....	7
Step 4: Modifying JBoss Classpath	7
Step 5: Editing the JNDI Properties	7
Locating the Configuration Files	8
Step 6: Installation of Insbridge.Fwk.APP (IBSS_JBoss.ear).....	8
Step 7: Starting the JBoss Server.....	9
CHAPTER 2	
CREATING A SOFTRATER DATABASE.....	10
Microsoft SQL Server.....	10
ORACLE	10
IBM DB2.....	11
CHAPTER 3	
ACCESSING THE APPLICATION.....	12
CHAPTER 4	
SQL SERVER UPGRADE	13
CHAPTER 5	
UPGRADING THE APPLICATION	14
UPGRADE NOTICE.....	14
Upgrading from a Previous Version.....	15
SUPPORT	
CONTACTING SUPPORT	16
TTY Access to Oracle Support Services	16
INDEX	
INDEX	17

LIST OF FIGURES

FIGURE 1 – JBOSS SERVER FOLDER	7
FIGURE 2 – JBOSS DEPLOY FOLDER	8

PREFACE

Welcome to the *Oracle Insurance Insbridge Rating and Underwriting JBoss Installation Guide*. This guide describes how to install and configure JBoss for SoftRater. 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.

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 JBoss.

RELATED DOCUMENTS

For more information, refer to the following Oracle resources:

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

<http://www.oracle.com/technology/documentation/insurance.html>

CONVENTIONS

The following text conventions are used in this document:

Convention	Description
bold	Boldface type indicates graphical user interface elements associated with an action.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
<code>monospace</code>	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 JBoss 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 JBoss 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 Insurance Support.

The SoftRater for JBoss version 04.01.00 zip file will contain:

- The 04.01.00-insbridge-jboss-eng Folder, which contains:
 - IBSS_JBoss.ear file
 - Insbridge.net.softmaterconfig.xml

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 Version	Publication Date	Comment
1 st Edition	P01-773-01	V 3.11.01	December 2008	Initial release
2 nd Edition	P01-773-02	V 3.12.0	July 2009	Update Version
3 rd Edition	P01-773-03	V 3.13.0	December 2009	Update to 3.13
4 th Edition	P01-773-04	R 4.0	April 2010	Update to 4.0
5 th Edition	P01-773-05	R 4.0.1	August 2010	Update Release
6 th Edition	P01-773-06	R 4.1	December 2010	Update Release

INSTALLATION PROCEDURES

The following is a quick list of the installation steps needed to perform a NEW SoftRater for JBoss Installation:

1. Install (decompress) JBoss 4.2.3 version on target server.
2. Start the default server. If there are any error messages, please correct them before continuing.
3. Go to <JBOSS_Folder>/server and create a copy of the default server (default folder) and rename it to SR_Server.
4. Delete the Jaxen.jar file from <JBOSS_Folder>/server/SR_Server/lib/ and replace it using JDOM_1.1/Jaxen-Core.jar (This file can be downloaded from the following URL: <http://www.jdom.org/dist/binary/>).

Note: This modification allows the application to run, if this step is not executed the application will hang without reporting any errors.

5. Edit the file "JNDI.properties" located on <JBOSS_Folder>/server/SR_Server/conf/ and add the following value to the end of the file:

INSBRIDGE_APP_DIR=<Path_Of_Configuration_File>

6. Copy the provided IBSS_JBoss.ear file to <JBOSS_Folder>/server/SR_Server/deploy/
7. Start SR_Server and test the application using the following URL: <http://<ServerName>:8080/IBSS>

Development Notes

Please be aware of the following items:

1. SoftRater for JBoss has been tested and certified on:

Version: 4.2.3.GA (build: SVNTag=JBoss_4_2_3_GA date=200807181418)

Version Name: Trinity

Built on: July 18 2008

Go to the JBoss server web-console to verify the version.

2. Please be aware that the deployment the EAR name will not be altered from release to release. JBoss adds the EAR filename as part of the EJB objects on deployment.

I.E. on JBoss EJB JNDI names are: "IBSS/SoftRaterEJB/local" and "IBSS/SoftRaterEJB/remote"

- It is suggested that you use **JDK 1.5** with JBoss 4.2.3GA. You can find the download for JDK 1.5 from Oracle Sun's website: http://java.sun.com/javase/downloads/index_jdk5.jsp, select **Java Runtime Environment (JRE) 5.0 Update 22**.

IMPORTANT: *JDK 1.5 is required if you are connecting to SQL Server.*

Step 3: Creating a New Server Configuration

To create a new server configuration go to “<JBoss_Installation_H>/server”, copy the default folder, and rename it to “SR_Server”.

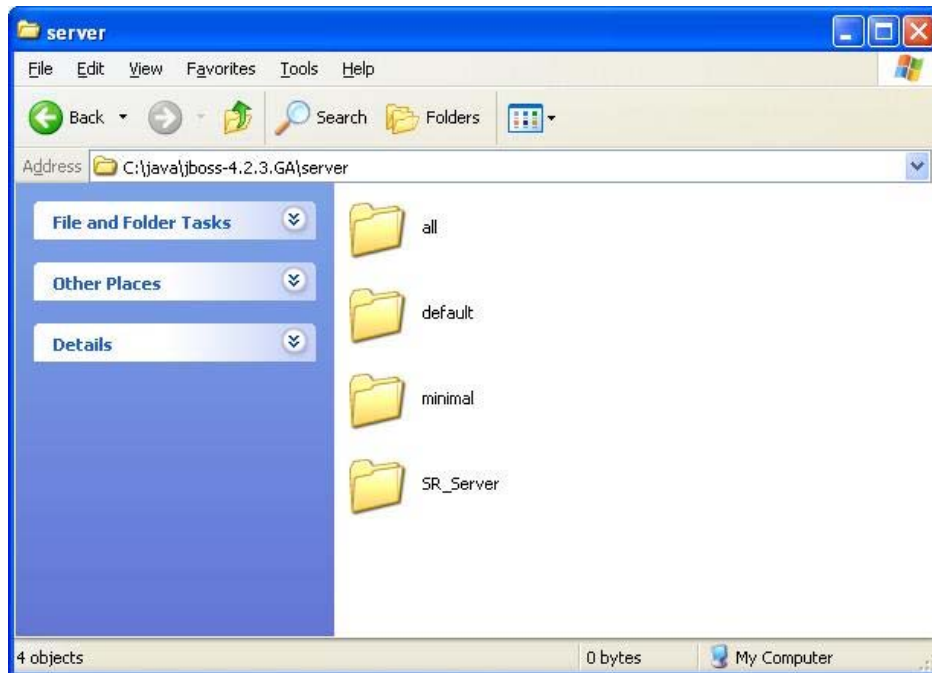


Figure 1 – JBoss Server Folder

Step 4: Modifying JBoss Classpath

In order to successfully run the SoftRater application you'll need to make the following modification to the JBoss server classpath:

- Delete Jaxen.jar file from <JBoss_Installation_Home>/server/SR_Server/lib/ folder and copy to this same location the Jaxen-Core.jar, this file can be downloaded as part of JDOM 1.1 dependencies.

Step 5: Editing the JNDI Properties

To create a new JNDI property go to “<JBoss_Installation_Home>/SR_Server/conf” folder and edit the “jndi.properties” file. This modification allows the application to run, if this step is not executed the application will hang without reporting any errors.

The file should look like this:

```
# DO NOT EDIT THIS FILE UNLESS YOU KNOW WHAT YOU ARE DOING
#
java.naming.factory.initial=org.jnp.interfaces.NamingContextFactory
java.naming.factory.url.pkgs=org.jboss.naming:org.jnp.interfaces

INSBRIDGE_APP_DIR=<Path_Of_Configuration_File>
insbridge.net.softraterconfig.xml
```

Locating the Configuration Files

You will need to verify that the application configuration file exists on the path specified:

- insbridge.net.softraterconfig.xml

Step 6: Installation of Insbridge.Fwk.APP (IBSS_JBoss.ear)

Deploying the IBSS_JBoss.ear file on JBoss is a one step procedure, copy the provided file (IBSS_JBoss.ear) to the following location: “<JBoss_Installation_Home>/server/SR_Server/deploy”

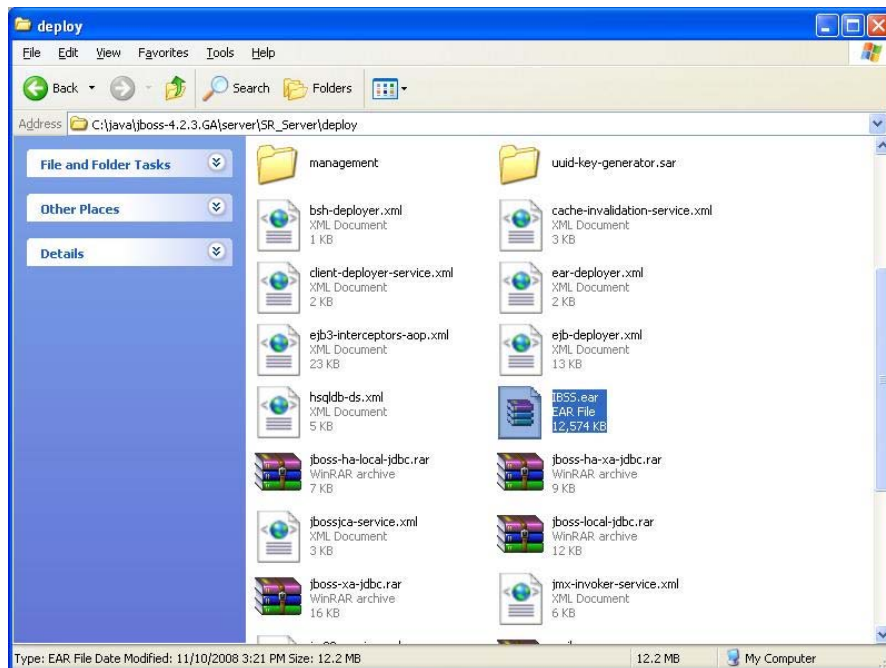


Figure 2 – JBoss Deploy Folder

Step 7: Starting the JBoss Server

To start the JBoss server open a console (Windows) or shell (Linux) and access the <JBoss_Installation_Home>/bin folder, on this location type the following command:

Windows:

```
Run -c SR_Server -b <Host_IP_Address>
```

Linux:

```
Run.sh -c SR_Server -b <Host_IP_Address>
```

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 `ddl/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.

ACCESSING THE APPLICATION

You will be able to access the application by typing <http://<ServerName or IP Address>:8080/IBSS>

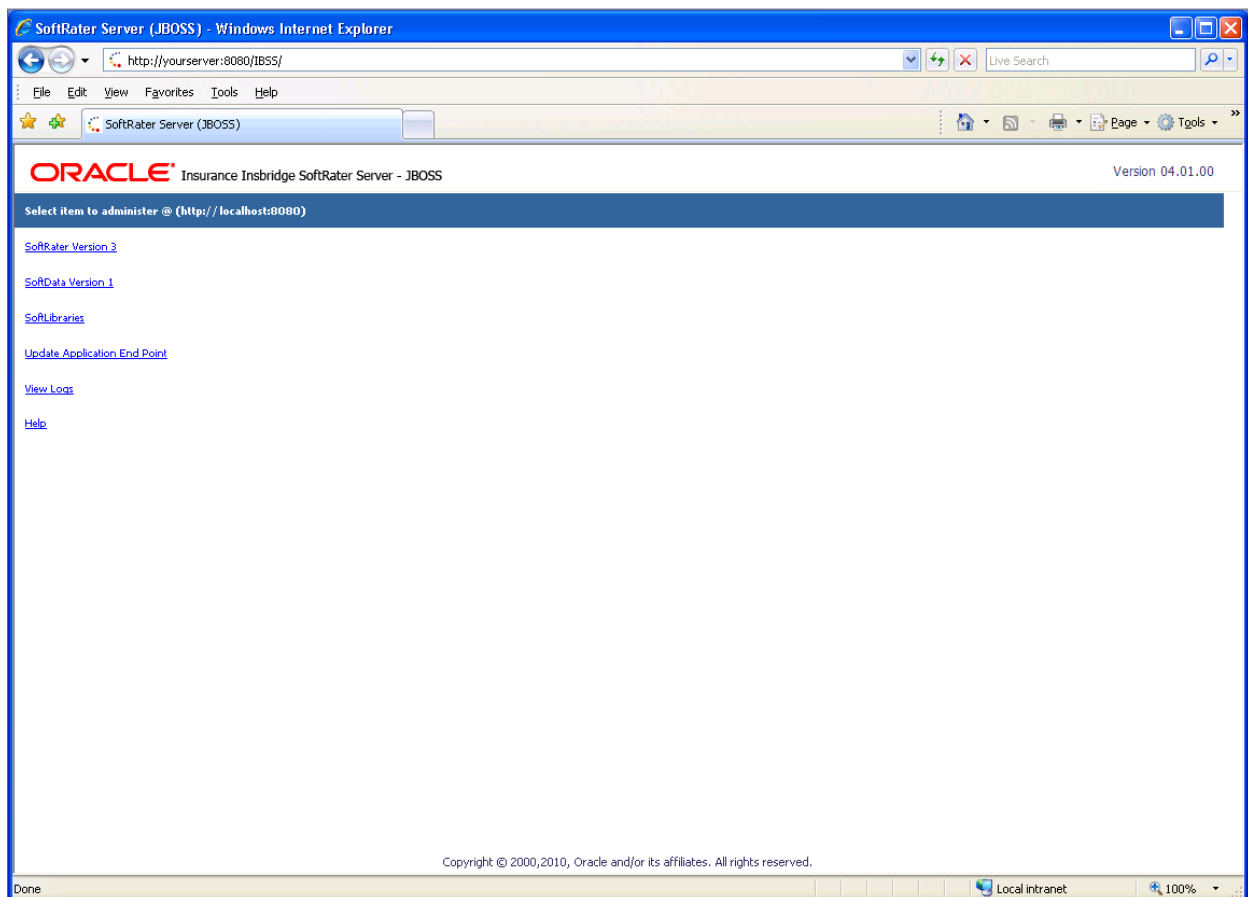


Figure 3 JBoss Main Page

NOTE: If you changed the JBoss default port (8080) during the Server 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.

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 JBoss. For example, `INSBRIDGE_APP_DIR=<Path_Of_Configuration_File>`
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 JBoss 04.01.00 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 JBoss. For example, `INSBRIDGE_APP_DIR=<Path_Of_Configuration_File>`.

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

UPGRADING THE APPLICATION

Oracle Insurance Insbridge Rating and Underwriting Release 4.1 has been tested and certified on JBoss 4.2.3GA.

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 VERSION

Upgrading from Oracle Insurance Insbridge Rating and Underwriting **Release 3.12 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 JBoss 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 JBoss Service.
3. Delete the old .EAR file from the JBoss deployment directory. ie:
<JBoss_Installation_Home>/server/SR_Server/deploy/
4. Remove the old config file. Go to “<JBoss_Installation_Home>/SR_Server/conf” folder and look the “jndi.properties” file. The configuration file information should be located here.
5. Install the new .EAR file. Copy the IBSS_JBoss.ear file to the following location:
<JBoss_Installation_Home>/server/SR_Server/deploy.
6. Start the JBoss Service.
7. Enter IBSS. You will need to re-enter the config information. Please see the Insbridge Rating and Underwriting SoftRater Server Guide.
8. If necessary, obtain any WSDL information from IBSS and update any calling application.
9. 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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INDEX

.

.EAR File
 Naming, 6

C

config/ddl subdirectory, 10
Configuration Settings
 DB2, 11
 DB2 Modifications, 11
Creating
 New JNDI Property, 7
 New Server Configuration, 7

D

Database
 IBM DB2 Support, 11
 MS SQL Support, 10
 ORACLE Support, 10
 SoftRater, 10
Database Definition Language Scripts, 10
DB2
 zOS, 11
DB2 Database
 Configuration Settings, 11
 JDBC Driver Class, 11
 Recommendations, 11
 SoftRater Database Schema, 11
 Supported Version, 11
 User Account Requirements, 11
DBA, 10
DBMS, 10
DDL, 10
DDL scripts
 zOS on DB2, 11
ddl\db2 Directory, 11
Deploying IBSS.ear, 8
Directory
 ddl\db2, 11

E

Edition Notice, 2

I

IBRU, v
IBSS, iv
IBSS.ear
 Deploying, 8
Insbridge SoftRater Server, iv

J

JBoss Port
 8080, 12
JBoss Server
 Starting, 9
JBoss server classpath
 Modifying, 7
JDBC Connection Drivers, 10
JNDI Property
 Create New, 7

M

Modifying
 JBoss server classpath, 7

N

Naming.EAR File, 6

O

ORACLE
 SoftRater Database Schema, 10
ORACLE Database
 JDBC Driver Class, 10
 Supported Version, 11
 User Account Requirements, 10

P

Performance Configurations Parameters
 SoftRater Database, 11

Q

Quick List, 6

R

Requirements
 DB2 Database, 11
 ORACLE Database, 10
 SoftRater EJB Data Access System, 10
 SQL Server, 10
 TCP/IP Connection, 10

S

Scripts
 Database Definition Language, 10
 Server Configuration

- Create New, 7
- SoftRater
 - Supported Databases, 10, 11
- SoftRater Database, 10
- SQL Server
 - JDBC Driver Class, 10
 - SoftRater Database Schema, 10
 - Supported Version, 10
 - User Account Requirements, 10

T

- TCP/IP Connection
 - To DB Platform, 10

Z

- z/OS
 - BD2, 11
- ZOS DB2.ZOS, 11