

Oracle Insurance SoftRater for JBoss Installation Guide

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Version 3.11

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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.

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 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. For example, the SoftRater for JBoss 3.11.1 installation file is part # 15146-01 and file name V15146-01. This information may be required if you need to contact Oracle Insurance Support.

The JBoss for SoftRater version 3.11.1 zip file will contain:

- The 3.11.1-insbridge-jboss-eng File, which contains:
 - IBSS.ear
 - 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

Installation Procedures

The following is a quick list of the installation steps needed to perform a 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 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.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. 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"

2. All SoftRater versions contain a core library. On JBoss, two files of the core library were changed:
 - a. RI_Utl.java
 - b. XCustomProcessor.javaThis was done because the Jaxen and JDOM implementations used by JBoss are not compatible with the original version used by the application. For this reason, these libraries needed to be updated to version 1.1 on the application library. This changes the interfaces used on these objects.

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”.

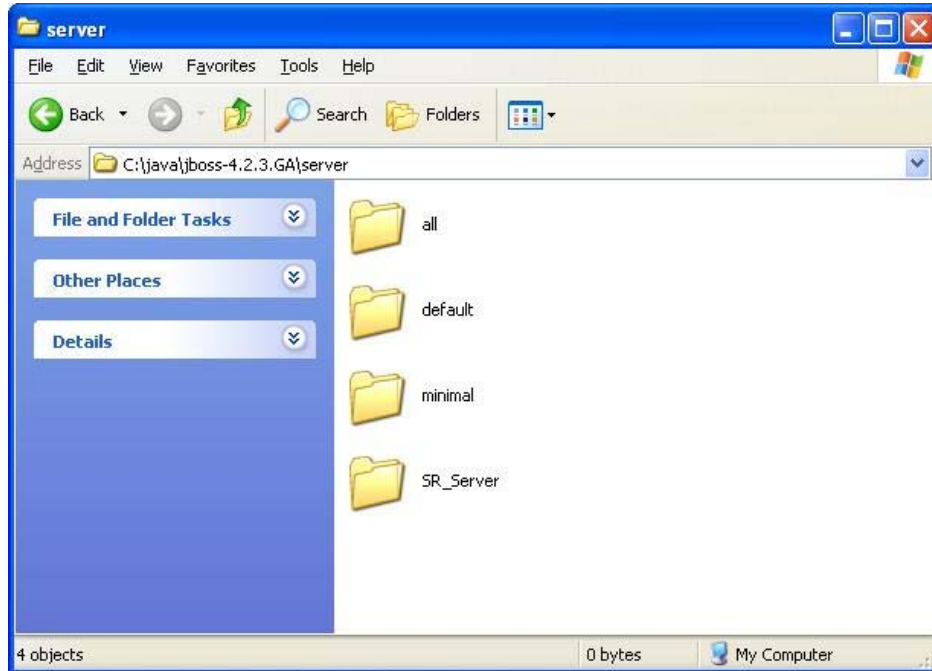


Figure 1 – JBoss Server Folder

Adding a JNDI Property

To create a new JNDI property go to “<JBoss_Installation_Home>/SR_Server/conf” folder and edit the “jndi.properties” file.

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.softmaterconfig.xml
```


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.

Installation of Insbridge.Fwk.APP (IBSS.ear)

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

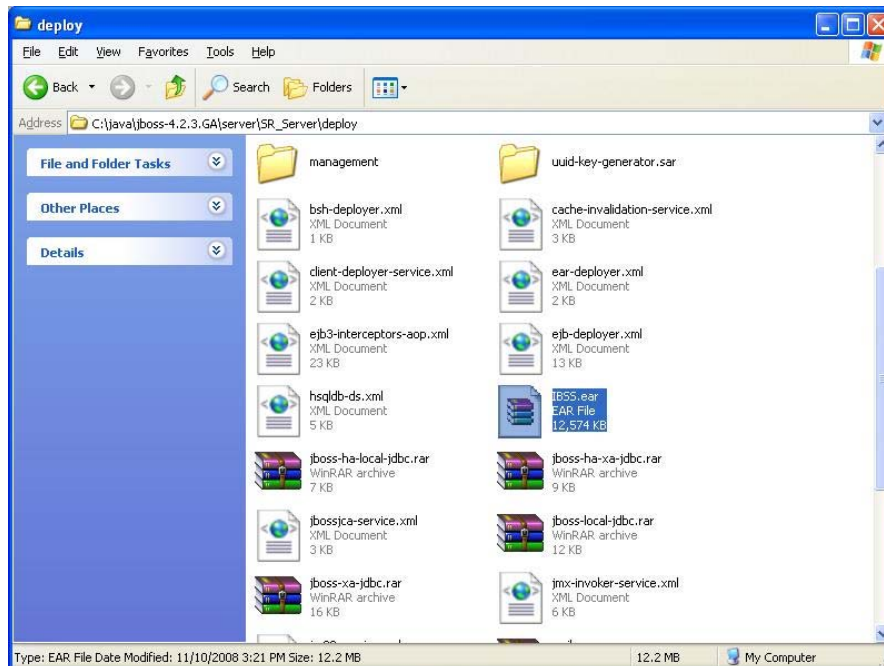


Figure 2 – JBoss Deploy Folder

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>

Locating the Configuration Files

You'll need to verify that the application configuration file exists on the path specified in **Adding a JNDI Property** section:

- insbridge.net.softaterconfig.xml

Accessing the Application

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

NOTE

Note: Notice that 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 Insbridge.Fwk.APP main page before accessing the application WebServices and methods.

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\$"

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.

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:

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