

Oracle Insurance

Insbridge Enterprise Rating SoftRater for JBoss Installation Guide

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Oracle Insurance Insbridge Enterprise Rating SoftRater for JBoss Installation Guide

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Primary Author: Mary Elizabeth Wiger

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PREFACE

Welcome to the Oracle Insurance Insbridge Enterprise Rating SoftRater for JBoss Installation Guide. This guide describes how to install and configure SoftRater for JBoss. SoftRater may be used in conjunction with the Oracle Insurance Insbridge Enterprise Rating 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 personnel, 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.

PLANNING YOUR INSBRIDGE SYSTEM

Prior to installation, you should have an idea of the type of setup you want to create. What kind of equipment do you have available and how many environments do you need? If you do not have everything completely planned out, you can still proceed. Environments can be removed or added later on. The Oracle Insurance Insbridge Enterprise Rating system (Insbridge) is expandable and can accommodate a few different configurations.

For more on planning your Insbridge system, please see the Insbridge Planning Guide.

TYPES OF INSTALLATION

There are various types of installations:

RateManager Installation

 RateManager for Windows – Installs RateManager and the Insbridge Framework Administrator (IBFA) in a Windows environment and utilizes IBFA for local rating. This Windows only environment uses a SQL Server database.

SoftRater Installation

- SoftRater for Java Installation Deploys Insbridge SoftRater Server (IBSS) to an application server; WebLogic, WebSphere or JBoss, using a SQL Server database, or an Oracle database, or a DB2 database.
- SoftRater for Windows Node This installation is for existing environments that want to add a SoftRater for Windows node to an environment. This is for a Windows only environment using a SQL Server database.

Upgrading a Current Installation

• **Upgrade** – This installation is for existing customers and will take their current version of Insbridge up to version 04.09.00.

This guide is for a Full SoftRater for Java Installation utilizing JBoss.

Definitions

Some commonly used terms when installing or using the Oracle Insurance Insbridge Enterprise Rating system:

- **IBER:** Insbridge Enterprise Rating System. This is the entire system.
- IBFA: Insbridge Framework Administrator. IBFA is an administrative tool used to configure Insbridge applications and setup RateManager database connections. IBFA will be located on a Windows Server machine. IBFA/SR-WIN is an Insbridge Framework Administrator/SoftRater for Windows.
- **IBSS:** Insbridge SoftRater Server. IBSS is the administrative tool for the SoftRater engine. The SoftRater engine is a multi-platform component within Insbridge that executes the rules, rating and underwriting instructions as defined by the user in RateManager. IBSS is usually located on a Java machine. IBSS/SR-JAVA is an Insbridge SoftRater Server/SoftRater for Java.
- **SoftRater Node:** A SoftRater node is either an IBFA (without RateManager) or IBSS instance on a physical environment.
- SoftRater Native: SoftRater Native is a remote instance of SoftRater that can execute rules and rating logic in environments where access via the SoftRater web-services is not desired or possible.
- **RM:** RateManager. RateManager is a component within Insbridge that enables users to manage the product definition and modification process, including rating and underwriting logic.
- **SR:** SoftRater. The engine that executes the rating, rules and underwriting instructions defined within RateManager. The rating environment for runtime execution and processing of business content. SoftRater can be further defined by the operating system where it has been loaded.
- SR-WIN: SoftRater for Windows. This is also another name for IBFA.
- **SR-JAVA:** SoftRater for Java. This is also another name for IBSS.

- **SRP:** SoftRater Packages. A package that holds all the RateManager logic for a specific program and version.
- **VFS:** Virtual File Servers. Virtual file server management allows you to access environments that are located on other machines in different locations where packages can be downloaded.
- Package Location: A pointer to a location where SoftRater Packages (SRP's) are stored.
- Physical Environment: A physical environment is generally referred to as a physical machine.
- Authoring Environment: The physical machine where RateManager is installed.
- **Rating Environment:** The physical machine(s) where SoftRater is installed. This is typically the same as a SoftRater node.
- Logical Environment: An environment created for a subscriber in IBFA. It defines package location, engine location and database location in addition to several other supporting data items. This environment is used for rating and/or SRP management. Each database connection will have a logical environment.

RELATED DOCUMENTS

For more information, refer to the following Oracle resources:

- The Oracle Insurance Insbridge Enterprise Rating Framework Administrator Guide.
- The Oracle Insurance Insbridge Enterprise Rating 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.
Italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.

Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

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
7 th Edition	P01-773-07	R 4.5	May 2011	Update Release
8 th Edition	P01-773-08	R 4.5.1	September 2011	Update Release
9 th Edition	P01-773-09	R 4.6	May 2012	Update Release
10 th Edition	P01-773-10	R 4.6.1	November 2012	Update Release
11 th Edition	P01-773-11	R 4.7	September 2013	Update Release
12 th Edition	P01-773-12	R 4.7.1	November 2013	Update Release
13 th Edition	P01-773-13	R 4.8	August 2014	Update Release JBoss 6
14 th Edition	P01-773-14	R 4.9	December 2014	Update Release

SYSTEM REQUIREMENTS

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

Prior to creating a new SoftRater environment, please have ready:

- Full JBoss installation
- Access to the server where JBoss was installed
- Database name or Environment name
- Database login information
- Database server name, either IP or DNS
- Database DDL, updates or backup files for the database you want to utilize. These files are located in the 04.09.00 Insbridge windows folder.
- If utilizing Oracle, DB Catalog name, port number, DB Schema name
- If utilizing DB2, DB Catalog name, port number, query block size (heap), DB Schema name
- Subscriber ID created in IBFA
- Access to the server where the Insbridge system was installed
- URL of the current IBFA
- Package location where you want the packages stored

These components will be needed at various times during the installation and implementation of SoftRater for JBoss.

Development Notes

Please be aware of the following items:

1. SoftRater for JBoss supports:

Version: 7.1.1 Version Name: FINAL Built on: 2012-03-09

IMPORTANT: JBoss 7.1.1.FINAL Does not support Batch features. Use JBoss 6 EAP for Batch.

Version: 6 EAP – Enterprise edition

Go to the JBoss server web-console to verify the version, i.e., http://<ServerName>:9990/web-console.

IMPORTANT: Java SE 6 or later is required.

 It is suggested that you use Java SE 6 or later with JBoss 7.1.1. You can find the download for Java SE 6 from Oracle Sun's website: <u>http://www.oracle.com/technetwork/java/javase/downloads/java-archive-downloads-javase6-419409.html</u>, select the Java SE 6 for your environment.

ORACLE SOFTWARE DELIVERY CLOUD

Prior to installation, please make sure the source machine(s) where Insbridge will be loaded has an unzip utility. An unzip utility for most platforms is available on the Oracle Software Delivery Cloud download page.

Documentation from Oracle Software Delivery Cloud is in PDF format. Prior to installation, please make sure the source machine(s) where Insbridge 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 installation downloads you can select are:

- Insbridge Insbridge Install Required for all RateManager installations
- SoftRater for WebSphere Required if you are using WebSphere
- SoftRater for WebLogic Required if you are using WebLogic
- **SoftRater for JBoss** Required if you are using JBoss
- **Documentation** It is recommended that you download the documentation. Installation guides and user guides are located here.

The 04.09.00-Insbridge-windows folder contents:

- Databases
 - DB2
 - SoftRater: IBSR
 - o DDLs
 - Update: usp_IBSR_v04.07.00.db2
 - Oracle
 - SoftRater: IBSR
 - o DDL
 - Update: usp_IBSR_v04.07.00.oracle
 - SQL Server
 - RateManager: IBRM

- Latin1_General_BIN
 - DATABASE_BACKUP_IBRM_TEMPLATE_CASE_SENSITIVE.bak
 Solution of the standard sector s
- SQL_Latin1_General_CP1_CI_AS
 - DATABASE_BACKUP_IBRM_TEMPLATE.bak
- Security: IB_CLIENT
 - SQL_Latin1_General_CP1_CI_AS
 - DATABASE_BACKUP_IB_CLIENT_TEMPLATE.bak
- SoftRater: IBSR
 - o Latin1_General_BIN
 - DATABASE_BACKUP_IBSR_TEMPLATE_CASE_SENSITIVE.bak
 - SQL_Latin1_General_CP1_CI_AS
 - DATABASE_BACKUP_IBSR_TEMPLATE.bak
 - Update: usp_IBSR_v04.05.01.sql
 - o Update: usp_IBSR_v04.06.00.01.sql
 - Update: usp_IBSR_v04.08.00.00.sql

- IE7_IE8 Users

- Insbridge RateManager Setup Document PDF
- RateManager_IE7_IE8.exe
- Oracle BI Publisher
 - OBI_PUBLISHER.exe
- Oracle Client
 - Oracle_client.exe
- Oracle Insurance: Insbridge Enterprise Rating.exe

No license file is required.

The 04.09.00-Insbridge-jboss folder contents:

- IBSS.EAR
- Insbridge.net.softraterconfig.xml

The 04.09.00-Insbridge-was folder contents:

- IBSS.EAR
- Insbridge.net.softraterconfig.xml

The 04.09.00-Insbridge-wbl folder contents:

- IBSS.EAR
- Insbridge.net.softraterconfig.xml

No license file is required.

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. Please note, all folders and files may not be needed, depending upon the kind of setup you want.

Internet Explorer

IBSS and IBFA are accessed via web browser. Please verify that you are using Internet Explorer 8.0 or 9.0 (32-bit). As of release 04.09.xx, Internet Explorer 8.0 and 9.0 (64-bit) are not supported.

SYSTEM REQUIREMENTS

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\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.

Application Server Permissions

WebLogic, WebSphere, and JBoss require read/write permissions on the server and the application to create Insbridge specific folders, edit configuration files, and write log files.

DATABASE USER ROLES AND PERMISSIONS

If a more granular approach is required for management of security of the Insbridge databases, then the following guidelines can be used to set permissions.

NOTE: These are only guidelines. If not properly configured, certain processes within the Insbridge Enterprise Rating System will fail. An experienced database administrator's expertise is highly recommended before making any security changes.

Recommended SoftRater Permissions:

The recommended permissions are required for new tables to be created in the SoftRater (IBSR) database dynamically when or if a new line of business SRP (SoftRater Package) is loaded to the SoftRater system. If the recommended permissions are not possible, manual steps will need to be performed that will allow for packages to be loaded.

SoftRater can utilize three database types, SQL Server, DB2 and Oracle.

• Insbridge SoftRater SQL Server Database.

It is recommended that the Insbridge login be granted permission to connect to the database engine and be enabled. It is also recommended that the Insbridge login be mapped to the Insbridge database with the db_owner role checked.

Insbridge SoftRater Oracle Database.

It is recommended that the Insbridge user be granted, as defaults, the "CONNECT" and "RESOURCE" Roles.

Insbridge SoftRater DB2 Database.

It is recommended that the Insbridge user be granted, as defaults, the "Connect to database", "Create Tables", and "Create packages" authorities.

It is recommended that the databases be on separate machines from the applications due to performance and security issues. The Insbridge applications and databases can be tenants in a larger setup.

It is recommended that db_owner permissions be given to the Insbridge user. This will allow scripts to be run automatically when a new package is loaded for a new line of business. If this is not possible, DT scripts for each new line will have to be run manually before the package can be loaded.

Microsoft SQL Server

JDBC Driver Class

"com.microsoft.jdbc.sqlserver.SQLServerDriver"

Supported Versions – 2008 R2 and 2012

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, 12c

User Account Requirements

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

IBM DB2

SoftRater database schema is supported on version 9.7.

JDBC Driver Class

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

Supported Version – 9.7

User Account Requirements

Connect to database Create Table Create Packages 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.

SOFTRATER FOR JBOSS INSTALLATION

Installing SoftRater for JBoss requires that you:

- 1. Set up JBoss and deploy the SoftRater for JBoss .EAR file and config file.
- 2. Implement the database and enter the configuration information in IBSS and IBFA. There are three database options:
 - a. Oracle Database
 - b. SQL Server Database
 - c. IBM DB2

SoftRater for JBoss can utilize either database. The installation procedures are similar, but there are different procedures for each database type. Please follow the installation for your database type.

Setting up and Deploying in JBoss

Step 1: Placing Configuration File
Step 2: Adding System Properties
Step 3: Deployment of IBSS.EAR File
Step 4: Start JBoss Server
Step 5: Test the application

Implementing a SQL Server Database

Step 1: Restoring Insbridge Databases in SQL ServeStep 2: Setting up a JBoss Environment in IBSSStep 3: Entering your IBSS Instance in IBFA

Implementing an Oracle Database

- Step 1: Creating an Oracle Database
- Step 2: Setting up a JBoss Environment in IBSS
- Step 3: Installation of Oracle Client
- Step 4: Entering your IBSS Instance in IBFA

Implementing an IBM DB2 Database

- Step 1: Creating a DB2 Database
- Step 2: Adding the DB2.jar File
- Step 3: Setting up a JBoss Environment in IBSS
- Step 4: Installation of DB2 Client
- Step 5: Entering your IBSS Instance in IBFA

SETTING UP JBOSS

JBoss should be up and running prior to deploying the .EAR file. There are seven steps that should be performed in JBoss prior to deploying the .EAR file. **All steps are required.**

- Step 1: Placing Configuration File
- Step 2: Adding System Properties
- Step 3: Deployment of IBSS.EAR File
- Step 4: Start JBoss Server
- Step 5: Test the application

STEP 1: PLACING THE CONFIGURATION FILES

This is a required step.

In this step, two folders must be created and the application file and configuration file must be placed in one of the folders. The configuration file must be in place prior to the SoftRater installation.

Creating Necessary Folders

We suggest creating an Insbridge config folder but you may use any folder name you want and you can place the folder any where you want. This folder holds the necessary files for the SoftRater for JBoss installation. Take note of the location and make sure you have created this folder prior to running the installation. This location serves as the application directory.

- For a Windows environment, C:\Insbridge\config
- For a Linux environment, home/Insbridge/config

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

An instance folder must be placed under the configuration folder. We suggest creating an Insbridge config instance folder but you may use any folder name you want. The folder must be under the config folder. Take note of the location and make sure you have created this folder prior to running the installation. This location serves as the instance application directory.

- For a Windows environment, C:\Insbridge\config\instance
- For a Linux environment, home/Insbridge/config/instance

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

Placing the Configuration Files

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

- IBSS.ear
- Insbridge.net.softraterconfig.xml

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

The instance folder will not have any files placed in it.

NOTE: It is important that the configuration path specified in the section Step 3: Adding a System Property to JBoss Server of this document contain both the application and configuration files. These files need to be placed where you specify in the standalone file.

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

STEP 2: ADDING SYSTEM PROPERTIES

This is a required step. The system properties must be configured prior to SoftRater being installed.

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

In JBoss, 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 JBoss Server – Windows

- 1. If the server is running, it must be stopped. Changes to a server that is running will not be dynamically loaded.
- 2. In a Windows Explorer window, enter the server bin location. For example: C:\Program Files\JBoss\jboss-eap-6.2\bin.
- 3. In the "**bin**" folder locate the "**standalone.bat**" file. Make a backup copy for safety. If the file you are editing gets corrupted, you can restore the original file.
- 4. Open the "standalone.bat" file and right click to Edit. Scroll towards the end of the file.

🚝 standalone.bat - Notepad	_ 🗆 🗙
File Edit Format View Help	
set DIRNAME=	
if "%0S%" == "windows_NT" (set "PROGNAME=%~nx0%") else (set "PROGNAME=standalone.bat")	
<pre>iff "x%JAVA_HOME%" == "x" (set JAVA_HOME is not set. Unexpected results may occur. echo Set JAVA_HOME is not set. Unexpected results may occur. echo Set JAVA_HOME to the directory of your local JDK to avoid this message.) else (set "JAVA=%JAVA_HOME%\bin\java")</pre>	
if not "%PRESERVE_JAVA_OPT5%" == "true" (rem Add -client to the JVM options, if supported (32 bit VM), and not overriden echo "%JAVA_OPT5%" findstr /I \-server > nul	•

Figure 1 – Editing standalone.bat File

- Locate the DOS if instruction that looks similar to the one in Figure 1. Your exact file may have slight variations.
- 6. You will need to insert the following system property declarations:
 - -DINSBRIDGE_APP_DIR="C:\Insbridge\Config". If you copy, please verify valid characters have been entered.

In this declaration, add a system property for the application directory location 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.

• -DINSBRIDGE_INSTANCE_APP_DIR="C:\Insbridge\Config\Instance". If you copy, please verify valid characters have been entered.

In this declaration, add a system property for the instance application directory to the Java Virtual Machine using the "-D" parameter, then specify "INSBRIDGE INSTANCE 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\Instance". Where C:\Insbridge\config\Instance is the folder you created earlier.

NOTE: If JBoss does not enter running mode, please check the start dialogue. If your system property is not recognized, please verify that valid characters have been entered.

For Example:

rem Setup JBoss specific properties set JAVA_OPTS=-Dprogram.name=%PROGNAME% %JAVA_OPTS% -DINSBRIDGE_APP_DIR="C:\Insbridge\config" -DINSBRIDGE_INSTANCE_APP_DIR="C:\Insbridge\config\Instance"

7. Save your changes.

🚝 standalone.bat - Notepad	_ D ×
File Edit Format View Help	
set "PROGNAME=%-nx0%") else (set "PROGNAME=standalone.bat")	
rem Setup JBoss specific properties set JAVA_OPTS=-Dprogram.name=%PROGNAME% %JAVA_OPTS% -DINSBRIDGE_APP_DIR="C:\Insbridge\config" - DINSBRIDGE_INSTANCE_APP_DIR="C:\Insbridge\config\Instance"	
if "x%JAVA_HOME%" == "x" (set JAVA_HOME%" == "x" (echo JAVA_HOME is not set. Unexpected results may occur. echo Set JAVA_HOME to the directory of your local JDK to avoid this message.) else (set "JAVA=%JAVA_HOME%\bin\java")	
if not "%PRESERVE_JAVA_OPTS%" == "true" (rem Add -client to the JVM options, if supported (32 bit VM), and not overriden echo "%JAVA_OPTS%" findstr /I \-server > nul	•

Figure 2 – Edited standalone.bat File

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

Adding to the JBoss Server – Linux

The procedure is similar in Linux. Open the file and right click to **Edit**. Scroll towards the end of the file and insert the system properties using the folder locations defined earlier.

- 1. If the server is running, it must be stopped. Changes to a server that is running will not be dynamically loaded.
- 2. Locate the "standalone.sh" file. In many instances, the file will be located in: .../home/user/JBoss/jboss-as-7.1.1.Final/bin.
- 3. In the "**bin**" folder locate the "**standalone.sh**" file. Make a backup copy for safety. If the file you are editing gets corrupted, you can restore the original file.
- 4. Open the "standalone.sh" file and right click to Edit. Scroll towards the end of the file.
- 5. Locate the command set JAVA_OPTS=%JAVA_OPTS%
- 6. Insert the following system property declarations:
 - -DINSBRIDGE_APP_DIR="home/Insbridge/config". If you copy, please verify valid characters have been entered.

In this declaration, add a system property for the application directory location 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. "home/Insbridge/config"". Where home/Insbridge/config is the folder you created earlier.

 -DINSBRIDGE_INSTANCE_APP_DIR="home/Insbridge/config/instance". If you copy, please verify valid characters have been entered. In this declaration, add a system property for the instance application directory to the Java Virtual Machine using the "-D" parameter, then specify "INSBRIDGE_INSTANCE_APP_DIR" as the name of the new variable.

You must also specify the path where the configuration file will be located. i.e. "home/Insbridge/config/instance". Where home/Insbridge/config/instance is the folder you created earlier.

NOTE: If JBoss does not enter running mode, please check the start dialogue. If your system property is not recognized, please verify that valid characters have been entered.

For Example:

7. Save your changes.

*standalone.sh (~/jBOSS/jboss-as-7.1.1.Final/bin) - gedit	
Elle Edit View Search Tools Documents Help	
Image: Save Print Image: Save Print Image: Save Print Image: Save Print Undo Redo Cut Copy Paste Find Replace	
<pre>*standalone.sh x SANITIZED_JBOSS_HOME= cd "\$JBOSS_HOME"; pwd if ["\$RESOLVED_JBOSS_HOME" != "\$SANITIZED_JBOSS_HOME"]; then echo "WARNING JBOSS_HOME may be pointing to a different installation - unpredictable results may occu echo "" fi fi export JBOSS_HOME</pre>	r."
<pre># Setup JBoss specific properties set JAVA_OPTS% -DINSBRIDGE_APP_DIR="/home/user/Insbrdige/Config" - DINSBRIDGE_INSTANCE_APP_DIR="/hom/user/Insbridge/Config/Instance"</pre>	
<pre># Setup the JVM if ["x\$JAVA" = "x"]; then if ["x\$JAVA_HOME" != "x"]; then JAVA="\$JAVA_HOME/bin/java" else JAVA="java" fi</pre>	•
Ln é	3, Col 16 INS

Figure 3 Edited standalone.sh file

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

STEP 3: DEPLOYMENT OF THE IBSS.EAR

There are two ways to deploy the IBSS.ear file; a hard deployment or using the console. A hard deployment must be done prior to starting the server. A hard deployment takes advantage of the deployment location within JBoss. If you do not use the deployment location, you can use the console to deploy the file.

Hard Deployment on Windows

A hard deployment of the IBSS.ear file on JBoss is a one step procedure; copy the provided file (IBSS.ear) to the following location: .../standalone/deployments.



Figure 4 SoftRater for JBoss Deploy Folder Windows

The deployment will start automatically when the server is started.

Updating the System IP Address in Windows

This is an optional step. To access the JBOSS server console using a System IP address or with the local host URL (<u>http://localhost:8080</u>), change the IP address value of *<interfaces>* node of standalone.xml from **127.0.0.1** to **0.0.0.**

NOTE: If the IP address value is 127.0.0.1 then it will restrict to access the console URL with localhost only. These changes need to be done for windows machine only.

- 1. Locate the folder location of the standalone.xml file: "<jboss_home>\standalone\configuration".
- 2. Create a backup copy and park in a safe location.
- 3. Open the standalone.xml file:
- 4. Change the management, public and unsecure addresses to 0.0.0.0.

```
<interfaces>
<interface name="management">
<inet-address value="${jboss.bind.address.management:<u>0.0.0.0}</u>"/>
</interface>
<interface name="public">
<inet-address value="${jboss.bind.address:<u>0.0.0.0</u>}"/>
</interface>
<interface name="unsecure">
<inet-address value="${jboss.bind.address.unsecure:<u>0.0.0.0</u>}"/>
</interface>
</interface>
```

5. Save and close the file.

Hard Deployment on Linux

A hard deployment in Linux follows the same procedure. Copy the provided file (IBSS.ear) to the following location: .../standalone/deployments.



Figure 5 SoftRater for JBoss Deploy Folder Linux

The deployment will start automatically when the server is started.

Deploying IBSS.EAR Using the JBoss Console

If you did not deploy the IBSS.EAR file using a hard deployment, you can deploy using the JBoss Admin console. You may need to deploy using the console if the .EAR file is not in the deployment location in JBoss. The steps are same for both Windows and Linux machines.

- 1. Log in to the JBoss server console URL i.e. http://10.100.100.10:9990/console.
- 2. Select the **Runtime** tab from the upper right corner.
- 3. Select Manage Deployments from the left panel menu.

					(7) Messages
JBOSS Application Se	erver 7.1				Profile Runtime
♥ Server Status	Deployments				
Configuration					
JVM	Deploymen	ts			
✓ Subsystem Metrics					
Datasources					Add Content
JPA					
Transactions	Name	Runtime Name	Enabled	En/Disable	Remove
Web				•	
✓ Runtime Operations					
OSGi					
✓ Deployments					≪ 🖪 1-1 of 1 🕨 ≫
Manage Deployments					
Webservices					

Figure 6 Managing Deployment on the JBoss Console

- 4. The deployments window will open.
- 5. Click Add Content to add/upload the IBSS.EAR file.

Upload			
Step1/2: Dep	loyment	Selection	
Please choose a file th	at you want to	deploy.	
	Browse		
			Next >> Cancel
			///

Figure 7 Deployment Selection

6. Choose the IBSS.EAR file location and click Next.

Upload			
Step 2/2:	Verify Deployment Name	5	
Key:	iWgYCaTCay/rjMlKcC3kwDZN2Dc=		
Name:	IBSS.ear		
Runtime Name:	IBSS.ear		
		Save	Cancel
			11.

Figure 8 Verifying Deployments

7. Verify your entries and click Save.

8. Click on the **Enable/Disable** icon to enable the IBSS.EAR.

					(7) Messages
JBOSS Application Se	rver 7.1				Profile Runtime
♥ Server Status	Deployments				
Configuration					
JVM	Deploymer	its			
✓ Subsystem Metrics					
Datasources					Add Content
JPA					
Transactions					-
Web	Name	Kuntime Name	Enabled	En/Disable	Kemove
✓ Runtime Operations	IBSS.ear	IBSS.ear	•	Disable	Remove
OSGi					
X Daployments					< 🚺 1-1 of 1 🕨 👀
· Deployments					
Manage Deployments					
Webservices					

Figure 9 Enabling the Deployment

- **Disable mode**: To deny access to the .EAR file. This is the default mode.
- Enable mode: To allow access to the .EAR file.
- 9. The .EAR is deployed to the JBoss server and available to users.

STEP 4: START JBOSS SERVER

Start the JBoss server. You can run from command prompt or terminal. For example:

• In Windows: Go to "<*jboss_home*>*\bin*" location and run the **standalone.bat** file. For example: C:\Program Files\JBoss\jboss-as-7.1.1.Final\bin\standalone.bat. Double click the standalone.bat file to start the server.

Or

In Linux: Go to the bin directory of "<jboss_home>"location and run the standalone.sh file. For example: /Users/Administrators/JBoss/jboss-as-7.1.1.Final/bat/standalone.sh. Select "./standalone.sh &" and press enter.

STEP 5: TEST CONNECTION

Test the application on URL: <u>http://<ServerName>:8080/IBSS</u>.

Where: ServerName is the name of the server where JBoss resides.

The port can be changed, please verify the port number if the application fails to launch.

If you are using a Windows instance of JBoss, remote access must be enabled.

NOTE: Port 8080 is the most commonly used port. The port number may have been changed when the instance was created.

Stopping and Starting JBoss

If the application fails to launch and the port and server name are correct, you may need to stop and start JBoss.

INSTALLATION PROCEDURES – UTILIZING A SQL SERVER DATABASE

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

- 1. Creation of the IBSR databases is next.
- 2. Create a JBoss entry in IBSS.
- 3. Create a JBoss entry in IBFA

STEP 1: RESTORING INSBRIDGE DATABASES IN SQL SERVER

Because many corporate environments have a separation between the system administrator and the database administrator, the following process may require both administrators' access and permissions. Make sure you have a SQL Server account called **ibru**.

NOTE: If you do not have database permissions, you will not be able to perform the following database procedures.

NOTE: If you are unsure how to perform a database restore, please consult with your database administrator.

Currently supported is the default SQL Server collation using SQL_Latin1_General_CP1_CI_AS and sort order plus case sensitivity using Latin1_General_BIN as the server collation. The security database (IB_CLIENT) supports the default SQL Server collation using SQL_Latin1_General_CP1_CI_AS. The RateManager and SoftRater databases can use either case sensitive or non-case sensitive. Please check with Oracle Insurance for any questions regarding database server sort orders or collations.

- 1. Located in the Insbridge Installation Directory:
 - SoftRater IBSR
 - Latin1_General_BIN
 - DATABASE_BACKUP_IBSR_TEMPLATE_CASE_SENSITIVE.bak
 - SQL_Latin1_General_CP1_CI_AS
 - DATABASE_BACKUP_IBSR_TEMPLATE.bak
 - Update:Usp_IBSR_v04.05.01.sql
 - Update: usp_IBSR_v04.06.00.01.sql
 - Update: usp_IBSR_v04.08.00.00.sql
- 2. Select the SoftRater backup file you want to use, case sensitive or non-case sensitive.
- 3. **Copy the file** to an appropriate database folder on the machine where SQL Server is installed. For example, [Drive]:\Program Files\Insbridge\Databases. If you are unsure of a location, please

consult with your database administrator.

- 4. **Rename the file**. It is not required but it is strongly suggested that the database file name be changed from TEMPLATE to something that defines the databases more accurately. At a minimum, it is recommended that you remove "_TEMPLATE" from the name. You can change the name after it has been restored also.
- 5. **Open the SQL Server Management Studio** either on the server or remotely using either an administrative account with sa privileges or as the sa account.

NOTE: If you do not have SQL Server Management Studio, check to see that the SQL Server Client has been installed. For a SQL Server install, you must have the SQL Server Client installed.

6. Go to Databases.

KMicrosoft SQL Serve	er Management Studio - [Object Exp	lorer Details]
🧏 Eile Edit View	<u>T</u> ools <u>W</u> indow <u>C</u> ommunity <u>H</u> elp	_ & ×
🕴 🔔 New Query 🛛 👔 🕴	n n Ni Di 🚅 🛒 🖬 🕯	
Object Explorer	- 4 ×	
Connect 🕶 📑 🛒 🔳 🍸	· 🛃 🔤	
🖃 🐻 Southern (SQL Se	rver 9.0.4035 - sa)	Databases
Database Security	New Database	
E Server O	Attach	
🕀 🧰 Replicatio	Restore Database	
🛨 🧾 Managem	Restore Files and Filegroups	P∎
🕀 📸 SQL Serv	Reports •	atabase Snapshots
		_Rater_Auditing
	Refresh	
Ready	<u>×</u>	

Figure 10 Right Click to Restore Database

- 7. Right click on **Databases**.
- 8. Select **Restore Database...** A separate screen will be displayed.

🥫 Restore Database - IBSR_A	lamere						-		
Select a page	🔄 Script 👻 🛽	🛓 Help							
General Poptions	Destination for restore								
	Select or type the name of a new or existing database for your restore operation.								
	T <u>o</u> datab	Γ	IBSR_Alamere						
	To a point in time: Most recent possible								
Source for restore									
	Specify th	ie source	and location of	f backup	o sets to restore.				
	O From	latabase:						~	
	From device: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSS								
	S <u>e</u> lect th	e backup	sets to restore:						
	Restore	Name	Component	Туре	Server	Database	Position	First	
			Database	Full	DBV001	IBSR_TEMPLATE	1	551	
Connection									
Server: WINAPP003\SQL									
Connection:									
View connection properties									
-									
Progress Beadu									
	•								
	<u> </u>								
						OK	Cance		

Figure 11 Restoring a Database

- 9. Enter your IBSR database name in **To Database:**.
- 10. Select **From Device**. Click ... to browse to the location where the database files were placed in step 3.
- 11. Select your database **IBSR_***xxxx***.BAK**, where *xxxx* equals the renamed file from step 4.
- 12. Click **OK**. Your database will be populated.
- 13. Verify your information. Check the **Restore** box.
- 14. Click **OK**.
- 15. If the database was restored successfully, it will be displayed in the database folder. If not, please correct any errors and try again.

16. Once the databases are restored to SQL Server, you will need to create or assign a SQL Server user account for the application. This user will be used for the connection to the databases when setting up the connections from the Insbridge Framework Administrator. Make note of the account you want to use. This information will be entered into the Insbridge Framework Administrator.

STEP 2: SETTING UP A JBOSS ENVIRONMENT IN IBSS

There are three steps that will need to be done in IBSS:

- Step 1: Creating a New Subscriber
- Step 2: Creating a SoftRater Environment
- Step 3: Adding a Node

Open an Internet Explorer web browser and browse to the following location, replacing ServerName with the actual server name where JBoss resides:

http://<ServerName or IP Address>:8080/IBSS

Security Enabled

Security is enabled by default; users are presented with a login screen. A user name and password must be entered to gain access. Information regarding the status of the system is presented but will not be accessible. The default is for security to be enabled.

Æ	(=) 🏉 http	://localhost:7	001/IBSS/				, D → 🗟 C 🥖 Sof	Rater Server (PRODUCT ×				6	* 🕸
File	Edit View	Favorites	Tools Hel	p									
		-											
	DRACL	_E' Insura	ance Insbridg	e SoftRater Server	- WebLogic							0	4.09.00
Use	rName			Global Config File	C:\Insbri	dge\Confi	g\insbridge.net.softraterco	nfiq.xml]					\sim
Pas	sword			The Insbridge Soft	Rater Server o	luster consi	sts of multiple SoftRater Serve	r instances running simultaneously a	nd working				
				together to provide increased scalability and reliability. Insbridge SoftRater Server instances that constitute a cluster can run on the same machine, or he located on different machines. This administration web will configure any Instride									
6	uhmit			SoftRater Configura	tion file foun	d on your n	etwork. All nodes in a cluster s	hould share the same file.	-				
	JUIIIL												
				Status									
				Mada No.	Note Cart		C. C. Law	Constant de la della de la della d	1100 01-1-				
				Node Name	Node Stati	IS Service	2014-04-10 02:25:51 PM	Connector last time changed	JMS Statu	s Email Status			
				PRODUCTION A	Active	OFF	2014-04-10 02:25:51 PM	None	Error	Error	1		
				PRODUCTION B	Active	OFF	2014-04-10 02:25:51 PM	None	Error	Error	1		
				PRODUCTION C	Active	OFF	2014-04-10 02:25:51 PM	None	Error	Error]		
				PRODUCTION D	Active	OFF	2014-04-10 02:25:51 PM	None	Error	Error			
				Options									
				The options below a	re shared by	each node t	hat shares the softrater config	file.					
				Click on the optic	n in the list	to edit.							
				location - PROD	UCTION								
				help server - 10	.100.10.10	D							
				Add Node	a CoffDator (Convers that	way would like the web admin						
				Node(s) are trisbridg	je sonukater t		you would like the web admin	u manage.					
				Click on the id of	the SoftRat	er Node in	the list to edit.						
				PRODUCTION	- 10.100.10	.100:700	1						
				PRODUCTION	<u>B</u> - 10.100	.10.100:7	011						
				PRODUCTION	<u>C</u> - 10.100 D - 10.100	.10.100:7	012 013						
				1 Robberron	0 10.100	10110017							
				Add Subscriber	0		the taxon and the term	been been been been been been been been					
				Ine subscriber ident Insbridge support re	presentative	if you have	that you would like to represen any questions.	t your company. Please consult with	an				
				System Environ	e of the env nents	ronment	to edit.						\sim

Figure 12 Security Enabled in IBSS

When Security is enabled, a default user "admin" with a default password of "insbridge" is assigned. This is the user name and password to be used the first time you enter IBSS. It is strongly recommended that the password be updated at the first log in.

IBSS Home

+ ttp://localhost:8081/IBSS	5/ $\mathcal{P} = 2 \mathcal{O}$ GotRater Server () ×	🗎 🛧 🛱
<u>File Edit View Favorites T</u> ools	Help	
	bridge SoftRater Server - JBoss	04.09.00
	Clabel Confer Tile I Coltandaridae Sconferbinekaidae onder offensker von fin von 11	~
E BSS	The Insbridge SoftRater Server cluster consists of multiple SoftRater Server instances running simultaneously and working	
E D Nodes	together to provide increased scalability and reliability. Insbridge SoftRater Server instances that constitute a cluster can run on the same machine, or be located on different machines. This administration web will configure any Insbridge SoftRater	
🕐 Help	Configuration file found on your network. All nodes in a cluster should share the same file.	
	Ontions	
	The options below are shared by each node that shares the softrater config file.	
	Click on the option in the list to edit.	
	location -	
	help server -	
	Add Node Node(s) are Insbridge SoftRater Servers that you would like the web admin to manage.	
	et de se de state es formas a un de trates trates da	
	Click on the 10 of the Softkater Hode in the list to edit.	
	No endpoints found.	
	Add Subscriber	
	Ine subscriber identifier is an unique number that you would like to represent your company. Please consult with an Insbridge support representative if you have any questions.	
	Click on the id of the subscriber in the list to edit.	
	No Subscribers found.	
	Add Environment Create or edit an environment.	
	Chile and the second state of the	
	System Environments	
	CONTROLLER -	
		×

Figure 13 IBSS JBoss Main Page

NOTE: The IBSS parameter in the application URL must be capitalized.
Step 1: Creating a Subscriber:

A *subscriber* is a group or collective of users and environments under a single identity. This identity is used to manage and configure the group's activities and databases. A subscriber may be a single company, a group within a company, or a single person.

The ID and Name must match across all environments. If you have created a subscriber in IBFA, use the same ID and Name here. If you have not created a subscriber, you can create them here and then use the same information in other environments. The ID and Name are fixed after the first time you save. These entries cannot be edited.

File Edit View Favorites Tools Hel	lo	
	no Cofile-tor Conver IBase	04.00.00
		04.09.00
	Solution of the Solution Solution Solution of the subscriber in the list to edit. Add Solution the id of the subscriber in the list to edit. Add Solution the id of the subscriber in the list to edit. Add Solution the id of the subscriber in the list to edit. Add Solution the id of the subscriber in the list to edit. Add Solution the id of the subscriber in the list to edit. Add Solution the id of the subscriber in the list to edit. Add Solution the id of the subscriber in the list to edit. Add Solution the id of the subscriber in the list to edit. Add Solution the id of the subscriber in the list to edit. Add Solution the id of the subscriber in the list to edit. Add Solution the id of the subscriber in the list to edit. Add Solution the id of the subscriber in the list to edit. Add Solution the id of the subscriber in the list to edit. Add Solution the id of the subscriber in the list to edit. Add Solution the id of the subscriber in the list to edit. Add Solution the id of the subscriber in the list to edit. Add Solution the id of the subscriber in the list to edit. Add Solution the id of the subscriber in the list to edit. Add Solution the id of the subscriber in the list to edit. Add Solution the id of the envinonment. Cick on the an environme	

1. Click on Add Subscriber. A separate screen is displayed.

Figure 14 Adding a Subscriber

2. Enter the ID, and Name for your subscriber.

The Subscriber ID can be a 1-5 digit number and must unique for each subscriber. For example, if you have an instance of IBFA on machine A, you can create a subscriber with an ID of 100. On machine A, if you create another subscriber, you must give that subscriber a different ID number, say 200. If you also have an instance of IBFA on a different machine, B for example, you should duplicate the same subscribers with the same ID numbers on machine B.

If you require assistance or are unsure of what action to take, please log a Service Request using My Oracle Support at <u>https://support.oracle.com/</u>.

1	🦲 V	Vebpage Dialog		x
	Sc	oftRater Server	r	<u>close</u>
	Subscr	riber		
	Please	enter the subscriber information below.		
	Id:	8659		
1	Name:	Alamere ×		
1		А	dd	Cancel

Figure 15 Enter ID

3. When you finish entering the information, click **Save**. The new subscriber will now be displayed in the list of subscribers.

NOTE: Make note of the subscriber ID number. You may need to enter this on another IBFA or IBSS environment.

Step 2: Creating a SoftRater Environment:

The **Environment Setup** section allows you to configure rating environments. An environment is a pointer to a location where SoftRater Packages (SRP's) are stored and loaded. There is no limit to the number of environments you may have.

1. Select **Add Environment** from the IBSS Main page. You will be placed on the environment window.

+ ttp://localhost:8081/IBSS/	/ P マ 茎 C 🧭 SoftRater Server () 🛛 ×	☆ ☆
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools	Help	
	vridge SoftRater Server - JBoss	04.09.00
E 📴 IBSS	Global Config File [C:\Insbridge\Config\insbridge.net.softraterconfig.xml] The Insbridge SoftRater Server duster consists of multiple SoftRater Server instances running simultaneously, and working	
🗄 🔛 Config	together to provide increased scalability and reliability. Insbridge SoftRater Server instances that constitute a cluster can run on the same machine, or he located or different machines. This administration web will configure any Instride SoftRater	
 Help 	Configuration file found on your network. All nodes in a cluster should share the same file.	
	Options	
	The options below are shared by each node that shares the softrater config file.	
	Click on the option in the list to edit.	
	location - PRODUCTION	
	help server - 10.100.10.100	
	Add Hode	
	Node(s) are insondge softkater Servers that you would like the web admin to manage.	
	Click on the id of the SoftRater Node in the list to edit.	
	No endpoints found.	
	Add Cubersilies	
	Add subscriber The subscriber identifier is an unique number that you would like to represent your company. Please consult with an	
	Insbridge support representative if you have any questions.	
	Click on the id of the subscriber in the list to edit.	
	Add Environment Create or edit an environment.	
	Click on the name of the environment to edit.	
	System Environments	
	♥ <u>CONTROLLER</u> -	
	Cial on the same of the same stick to with an it is been to add a same antisone and	
	Click of the name of the conflection to edit, or <u>click here</u> to add a new environment.	
	♦ No Connections found.	~

2. A separate screen is displayed. Enter the following information:

For DSN Entries

Subscriber: Select the name of the subscriber from the menu.

Environment Name: A name for the environment. This is the friendly name.

Environment Type: Select the type of connection:

- DSN The connection information is held by the Insbridge system.
- **JNDI** The connection is an EJB Lookup and information is not held by the Insbridge system.

Database Server: The name or IP address of the server where packages are loaded.

Database Port: Listening port for the target Database Management System.

Default port numbers:

- SQL Server 1433
- Oracle 1521
- DB2 50000

Query Block: For certain Database Management Systems (DBMS), system batch query optimization is required for performance and/or because of limits on/in the system. This value will control the maximum number of batch query operations that can be submitted to the target DBMS in any one transaction.

For DB2, enter a query size that is relative to the SQL statement heap size. For example, if your SQL statement heap size is 2048, you may want to enter a query size of 5. The larger the heap size, the larger the query size can be.

You may also need to increase the application heap size.

Query block is not needed for SQL Server or Oracle databases.

Database Name: The name of the database where packages are loaded.

Schema Name: The schema name for the database. Schema Name is not needed for SQL connections.

Database User Id: The username to access the database.

Database Password: The password for the username entered.

Provider Type: The type of the database

- ORACLE
- DB2
- DB2(AS400)
- MS SQL SERVER

Database Type: The type of database being accessed:

- SoftRater The default. This option should be used for most installations.
- RateManager Supported for selected installations. Please contact Support.
- **OTHER** Not used at this time.

Data Dir: The location of the SoftRater Packages (SRP's) on the server.

Default Environment: Select if this is to be used as the default environment. The default environment is used when no environment is specified. There can be only one default environment. The default environment is indicated with a red icon.

3. When you are finished entering information, click Save.

🗿 Webpage Dialog		×
SoftRat	er Server r Serve	<u>close</u>
Options	RCC Online information	
Please enter/update your It		
Subscriber:	Alamere	
Environment Name:	PROD_B	
Environment Type:	DSN 🗸	
Database Server:	localhost	
Database Port:	1433	
Query Block:		
Database Name:	IBSR_Production_B	
Schema name:		
Database User Id:	sa	
Database Password:	•••••	
Provider Type	MS SQL Server 💙	
Database Type:	SoftRater 💙	
Data Dir:	C:\Insbridge\Production_B	
Default Environment:	True 🗸	
Save Delete	Test Connection!	Close

Figure 16 Environment Setup

4. Before you can use the new or edited environment for rating, you need to reload the configuration XML file. This is done by resetting the environments. On the left hand side of the IBSS home page, expand Nodes and select the Reset Environments option. You will be placed on the Reset Environment Configuration page. Click **Execute**. The screen refreshes and each node will be reset. Click IBSS to return to the home page.

For JNDI Entries

Subscriber: Select the name of the subscriber from the menu.

Environment Name: A name for the environment. This is the friendly name.

Environment Type: Select the type of connection:

- **DSN** The connection information is held by the Insbridge system.
- **JNDI** The connection is an EJB Lookup and information is not held by the Insbridge system.

Name: The name of the data source.

Context Factory: A *URL context factory* is a special object factory that creates contexts for resolving URL strings.

RMI: The Java Remote Method Invocation used.

URL Host: The name or IP of the host server.

URL Port: The port number used by the host server.

Provider Type: The type of the database

- ORACLE
- DB2
- DB2(AS400)
- MS SQL SERVER

Database Type: The type of database being accessed:

- SoftRater The default. This option should be used for most installations.
- RateManager Supported for selected installations. Please contact Support.
- **OTHER** Not used at this time.

Data Dir: The location of the SoftRater Packages (SRP's) on the server.

Default Environment: Select if this is to be used as the default environment. The default environment is used when no environment is specified. There can be only one default environment. The default environment is indicated with a red icon.

5. When you are finished entering information, click **Save**.

🚑 Webpage Dialog		×
SoftRat	er Server r Ser	ver ^{dose}
Options		
Please enter/update your IE	SS Option information.	
Subscriber:	Alamere	
Environment Name:	BATCH	
Environment Type:	JNDI 🗸	
Name:	jdbc/batchDB]
Context Factory:	weblogic.jndi.WLInitial ContextFactory]
RMI:	t3	
Url Host:	localhost	
Url Port:	7001	
Provider Type		
Database Type:	SoftRater V	
Data Dir:		
Default Environment:	False 🗸	
Save	Tes	t Connection! Close

Figure 17 Creating a JNDI Environment

Before you can use the new or edited environment for rating, you need to reload the configuration XML file. This is done by resetting the environments. On the left hand side of the IBSS home page, expand Nodes and select the Reset Environments option. You will be placed on the Reset Environment Configuration page. Click **Execute**. The screen refreshes and each node will be reset. Click IBSS to return to the home page.

Step 3: Adding a Node:

Every IBSS instance requires a node. Nodes allow for the management of multiple environments from one location. Nodes contain cache and log information for each environment as well as a reset option.

File Edit View Envorites Tools	Help	
	Li ^{erp}	04.09.00
IESS B Config B Nodes W Help	Slobal Config File [C: Unsbridge \Config \insbridge.net.softraterconfig.xml] The Insbridge SoftRater Server duster consists of multiple SoftRater Server instances running simultaneously and working together to provide noreased scalability and reliability. Insbridge SoftRater Server instances that constitute a duster can run on the same machine, or be located on different machines. This administration web will configure any Insbridge SoftRater Configuration file found on your network. All nodes in a duster should share the same file. Options The options below are shared by each node that shares the softrater config file. Click on the option in the list to edit.	^
	location - PRODUCTION help_server - 10.100.10.100 Add Node Node(s) are Insbridge SoftRater Servers that you would like the web admin to manage. Glick on the id of the SoftRater Node in the list to edit.	
	No endpoints found. Add Subscriber The subscriber identifier is an unique number that you would like to represent your company. Please consult with an Insbridge support representative if you have any questions. Click on the id of the subscriber in the list to edit.	
	<u>8659</u> - Alamere Add Environment Create or edit an environment. Cick on the neutrogenerative edit	
	Click on the name of the connection to colic Click on the name of the connection to colic or click here to add a new environment. Click on the name of the connection to colic, or click here to add a new environment. Click anere PROD A - jdbc:oracle:thin:@10.100.10.100:1521:PROD_A PROD B - jdbc:db2://10.100.10.100:50000/PROD_B PROD C -	
	jdbc:sqlserver://10.100.10.100:1433;ProgramName=jSoftRater;DatabaseName=PROD_C	~

Figure 18 Adding a Controller Database Connection

To create a node, server information is needed:

- Server OS
- Server Name or IP Address
- Port Used
- 1. From the IBSS home page, click the **Add Node** link.
- 2. This opens the Add Subscriber window.

	🧉 Webpage Dialog	X
	SoftRate	r Server
	SoftRater Server Node Ins	tance
	Please enter the Insbridge Sof It is recommended that each r SoftRater Config XML.	tRater Server you would like IBSS to manage. node configured on an IBSS share the same
	Server OS:	Linux
1	Server Host/IP Address (Port):	
ł	Name:	
	Secure:	
		Add Ping Server Cancel

Figure 19 Adding a Node

- 3. Select the server operating system from the drop down. There are three choices, Linux, Mainframe and Windows.
- 4. Enter the server host name or IP address and port. The default ports:
 - WebLogic: Port 7001
 - WebSphere: Port 9080
 - **JBoss:** Port 8080

The format for this is: [SERVER NAME]:[PORT NUMBER]

- 5. Enter a friendly name. This is the name displayed for the node.
- 6. Check if this is a secure environment. A secure environment connects using HTTPS.
- 7. It is recommended that the Ping Server option be used to test the connection. This is an optional step but can be helpful. If a connection cannot be made, the node cannot be saved.
- 8. Click **Add** to add the node. If a node cannot be added, an error message is displayed. Please correct the error and try again.

NOTE: It is recommended that server names or IP addresses be used over localhost.

STEP 3: ENTERING YOUR IBSS INSTANCE IN IBFA

IBFA will need to communicate with the IBSS environment. This will allow for packages to be loaded. There are two parts that will need to be completed:

- 1. Create an environment.
- 2. Configure the environment.

A SoftRater environment may be completed at installation or can be added at a later time. A SoftRater environment can be on a Windows machine or a Java machine running an application server, such as JBoss. There is no limit to the number of SoftRater environments that you can have.

- 1. Enter IBFA.
- 2. Browse to **SoftRater→Explorer→Subscriber name**.
- 3. Click on Add Environment.
- 4. Enter a **Name** and select a **Typ**e. For example, you can create a Quality Control environment with a type of Quality Assurance.
- 5. Select the **Environments** link under the Configuration header on the left hand side to enter the configuration information for the newly created logical environment. You will be placed on the Environments screen. The environments you previously setup will be listed. If an environment is missing, you must return to the Configuration subtab and add it.

	Insbridge Framework Adminis	strator				Version 04.09.00 (x64)
(x) ⊖ ⊇ Insbridge	Content	Settings				
Brgne Brgne Bounder Brouwnood Softbala Softbala		Environment(b) you Environment: D6 Server: D6 Server: D6 Catalog: Type: D6 Catalog: Type: D6 Catalog: Type: D6 Tablespoce: D6 Tablespoce: D6 Tablespoce: D6 Schema: D6 Isser: D8 Schema: D6 Isser: D8 Server: Engine EnvDef:	PRODUCTION Insy use for production purposes. 3 R CLIprobridge Padages SR Oracle VI Boll Softwate VI S	electing an environ	nent below will denote it as the default.	
		Sece				~
	t -		Copyright © 2000,	2009, Oracle and/or	rits affiliates. Al rights reserved.	

Figure 20 Editing Environment

- 6. The Environment Name will be complete. No changes are needed.
- 7. Enter in the file path where you want packages stored in the **Package Location**. Use the Test Environment option to have the location created for you.
- 8. Enter in the **DBServer** name or IP address. This is the database server where the SoftRater database was restored or created.
- 9. Select the **DB Server Type** that you are using.
- 10. The **DB Catalog** is the name of the SoftRater database restored in SQL Server. For example, IBSR_QA.
- 11. The DB Catalog Type is SoftRater.
- 12. **DB Query Buffer** is the Query Block entry from IBSS. An entry is required if you are using a DB2 database. For SQL or Oracle, no entry is needed.
- 13. **DB Tablespace** is not required for a SoftRater environment
- 14. The **DB Schema** is the name of the schema that defines the structure of the database. This information may be obtained from the DBA.
- 15. Enter the **DB User** name and **Password**.
- 16. Select the Engine Type.
- 17. The **Engine Location** is the location of where you installed the SoftRater engine. You can use the machine name or IP address. For WebSphere, WebLogic or JBoss, you must also include the port. For example, a JBoss server may have "WBServerName:8080" as the entry.
- 18. The **Engine EnvDef** is the machine name if the engine is located on a different server. You can use the machine name or IP address.
- 19. Click **SAVE** to save your entries.

NOTE: If the JBoss environment is not responding, you may need to stop and start the JBoss service.

INSTALLATION PROCEDURES – UTILIZING AN ORACLE DATABASE

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

- 1. Create Oracle database.
- 2. Create a JBoss entry in IBSS.
- 3. Run the Oracle Client on the machine where the Insbridge system was installed.
- 4. Create a JBoss entry in IBFA

STEP 1: CREATING AN ORACLE DATABASE

Because many corporate environments have a separation between the system administrator and the database administrator, the following process may require both administrators' access and permissions.

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.

Before proceeding, please have ready:

- The LOBs that your company uses. You will need the ID number for each LOB.
- Your subscriber number.
- Location of the Insbridge files.

Oracle Insurance does not have specific requirements, whatever requirements are deemed necessary by your company's internal standards will work. It is recommended that you included the version number or environment name if you are planning on creating more than one instance.

These instructions are high level and require that the setup person be a DBA.

1. On your Oracle database, run all **DDLs**.

NOTE: If you do not have database permissions, you will not be able to perform the following database procedures.

- a) Create default tablespace for the Soft Rater database.
 - If a database table needs to be added, the DDLs are located in the IBFA Installation Directory under the SoftRater/DDL folder. I.e. [INSTALL_DIR]/Insbridge/SoftRater/DDL.
 - You will have to replace the TABLESPACE name in the scripts with the tablespace name you used when you created the database.
 - On the DT tables, you will need to create one for every LOB. An example of the format is in the comments of the script. It requires the LOB ID number and the customer number.
- b) Create user IBSR and assign basic connect and resource grants.
- 2. On your Oracle database, you will need to run a DT table script for each LOB.
- 3. After all DT tables have been created, please make note of:
 - Schema
 - Instance
 - User name
 - Password

This information will need to be passed along to the Insbridge installer. This information is needed to create a logical environment.

Location of Oracle DDL Directory

If a database table needs to be added in SoftRater, the DDLs are located in the IBFA Installation Directory under the SoftRater/DDL folder. I.e. [INSTALL_DIR]/Insbridge/SoftRater/DDL.

oracle.create.dt.template.sql.txt oracle.create.packages.sql.txt oracle.create.packages_lk.sql.txt oracle.create.packages_rl.sql.txt oracle.create.packages_si.sql.txt oracle.create.packages_so.sql.txt

This information may be needed if you are attempting to add an LOB and receive missing table errors. Creating tables in Oracle should be performed by a qualified DBA.

STEP 2: SETTING UP A JBOSS ENVIRONMENT IN IBSS

There are three steps that will need to be done in IBSS:

- Step 1: Creating a New Subscriber
- Step 2: Creating a SoftRater Environment
- Step 3: Adding a Node

Open an Internet Explorer web browser and browse to the following location, replacing ServerName with the actual server name where JBoss resides:

http://<ServerName or IP Address>:8080/IBSS

Security Enabled

Security is enabled by default; users are presented with a login screen. A user name and password must be entered to gain access. Information regarding the status of the system is presented but will not be accessible. The default is for security to be enabled.

								• X
A (a) A (b) A (c) A (오 - 🗟 🖒 <i>(</i> Soft)	Rater Server (PRODUCT ×			f	i ★ #
File Edit View Favorites Tools Help								
		_			_			
ORACLE [®] Insurance Insbridge SoftRater S	erver - WebLogic							04.09.00
UserName Global Conf	iq File [C:\Insbri	lqe\Confi	g\insbridge.net.softraterco	nfiq.xml]				\sim
Password The Insbridg	e SoftRater Server d	uster consi	sts of multiple SoftRater Server	instances running simultaneously ar	nd working			
together to p run on the sa	rovide increased sca me machine, or be l	lability and ocated on	reliability. Insbridge SoftRater different machines. This admini	Server instances that constitute a clu stration web will configure any Insbr	ister can idge			
Submit SoftRater Co	figuration file found	on your n	etwork. All nodes in a cluster sh	ould share the same file.				
<u>Status</u>								
Node N	me Node Statu	c Somic	Config last time changed	Connector last time changed	1MS State	e Email Statue		
* INSBRID	E Active	OFF	2014-04-10 02:25:51 PM	None	Error	Error	1	
PRODUCTIO	N A Active	OFF	2014-04-10 02:25:51 PM	None	Error	Error	1	
PRODUCTIO	N B Active	OFF	2014-04-10 02:25:51 PM	None	Error	Error]	
PRODUCTIO	N C Active	OFF	2014-04-10 02:25:51 PM	None	Error	Error	4	
PRODUCTION	<u>N D</u> Active	OFF	2014-04-10 02:25:51 PM	None	Error	Error]	
Options The options h	olow are shared by a	ach node t	hat shares the softrater config	ile				
The options b	low are shared by t	derrivae e	hat shares the solution coming					
Click on the	option in the list	to edit.						
location - I	RODUCTION							
help serve	- 10.100.10.100	1						
Add Node								
Node(s) are I	nsbridge SoftRater S	ervers that	you would like the web admin t	manage.				
Click on the	id of the SoftPate	er Node in	the list to edit					
	TION 10 100 10	100.700						
♥ <u>PRODUC</u> ♥ <u>PRODUC</u>	<u>TION A</u> - 10.100.10	10.100:700	010					
	TION B - 10.100. TION C - 10.100.	10.100:7	011 012					
PRODUC	TION D - 10.100.	10.100:7	013					
Add Subser	her							
The subscribe	r identifier is an uniq	ue number	that you would like to represent	your company. Please consult with a	an			
Insbridge sup	port representative i	f you have	any questions.					
Click on the	name of the envi	ronment	to edit.					
System E	vironments							

Figure 21 Security Enabled in IBSS

When Security is enabled, a default user "admin" with a default password of "insbridge" is assigned. This is the user name and password to be used the first time you enter IBSS. It is strongly recommended that the password be updated at the first log in.

IBSS Home

← 🕞 🥔 http://localhost:8081/IBSS	🖓 🔎 🖛 📓 🖒 🎾 SoftRater Server () 🛛 🗙	☆ ☆
<u>File Edit View Favorites T</u> ools	Help	
	haden Caliberton II. Dann	
	ondge Softkater Server - JBOSS	04.09.00
E D TBSS	Global Config File [C:\Insbridge\Config\insbridge.net.softraterconfig.xml]	~
E Config	The Insbridge SoftRater Server cluster consists of multiple SoftRater Server instances running simultaneously and working	
🗉 🚞 Nodes	on the same machine, or be located on different machines. This administration web will configure any Insbridge SoftRater	
🕐 Help	Configuration file found on your network. All nodes in a cluster should share the same file.	
	Options	
	The options below are shared by each node that shares the softrater config file.	
	Click on the option in the list to edit.	
	location -	
	help server -	
	Add Node	
	Node(s) are Insbridge SoftRater Servers that you would like the web admin to manage.	
	Click on the id of the SoftRater Node in the list to edit.	
	No endpoints found.	
	Add Subscriber	
	The subscriber identifier is an unique number that you would like to represent your company. Please consult with an	
	Insonoge support representative if you have any questions.	
	Click on the id of the subscriber in the list to edit.	
	No Subscribers found.	
	Add Environment	
	Create or edit an environment.	
	Click on the name of the environment to edit.	
	✓ <u>CONTROLLER</u> -	
		\sim

Figure 22 IBSS JBoss Main Page

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

Step 1: Creating a Subscriber:

A *subscriber* is a group or collective of users and environments under a single identity. This identity is used to manage and configure the group's activities and databases. A subscriber may be a single company, a group within a company, or a single person.

The ID and Name must match across all environments. If you have created a subscriber in IBFA, use the same ID and Name here. If you have not created a subscriber, you can create them here and then use the same information in other environments. The ID and Name are fixed after the first time you save. These entries cannot be edited.

E () Attp://localhost:8081/IBSS/	の 🗝 📽 🏉 SoftRater Server () 🛛 🗙	- □ -×-
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>I</u>	Help	
	ridge SoftRater Server - JBoss	04.09.00
□ 📑 IBSS 1 🚡 Config 1 🚡 Nodes 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u>Slobal Config File [C: Insbridge \Config \insbridge net_softraterconfig.xml]</u> The Insbridge SoftRater Server duster consists of multiple SoftRater Server instances running simultaneously and working together to provide increased scalability and reliability. Insbridge SoftRater Server instances that constitute a duster can run on the same machine, or be located on different machines. This administration web will configure any Insbridge SoftRater Configuration file found on your network. All nodes in a duster should share the same file.	^
	The options below are shared by each node that shares the softrater config file.	
	Click on the option in the list to edit.	
	location - PRODUCTION	
	<u>help server</u> - 10.100.10.100	
	Add Node Node(s) are Insbridge SoftRater Servers that you would like the web admin to manage. Click on the id of the SoftRater Node in the list to edit. No endpoints found.	
	Add Subscriber The subscriber identifier is an unique number that you would like to represent your company. Please consult with an Insbridge support representative if you have any questions. Click on the id of the subscriber in the list to edit.	
	♦No Subscribers found.	
	Add Environment Create or edit an environment.	
	Click on the name of the environment to edit. System Environments	
	CONTROLLER -	
		~
<u> </u>		

1. Click on Add Subscriber. A separate screen is displayed.

Figure 23 Adding a Subscriber

2. Enter the ID, and Name for your subscriber.

The Subscriber ID can be a 1-5 digit number and must unique for each subscriber. For example, if you have an instance of IBFA on machine A, you can create a subscriber with an ID of 100. On machine A, if you create another subscriber, you must give that subscriber a different ID number, say 200. If you also have an instance of IBFA on a different machine, B for example, you should duplicate the same subscribers with the same ID numbers on machine B.

If you require assistance or are unsure of what action to take, please log a Service Request using My Oracle Support at <u>https://support.oracle.com/</u>.

	🥰 V	Vebpage Dialog	x
1	Sc	oftRater Server	<u>close</u>
	<u>Subscr</u>	<u>iber</u>	
	Please	enter the subscriber information below.	
	Id:	8659	
1	Name:	Alamere ×	
		Add	Cancel

Figure 24 Enter ID

3. When you finish entering the information, click **Save**. The new subscriber will now be displayed in the list of subscribers.

NOTE: Make note of the subscriber ID number. You may need to enter this on another IBFA or IBSS environment.

Step 2: Creating a SoftRater Environment:

The **Environment Setup** section allows you to configure rating environments. An environment is a pointer to a location where SoftRater Packages (SRP's) are stored and loaded. There is no limit to the number of environments you may have.

1. Select **Add Environment** from the IBSS Main page. You will be placed on the environment window.

+ ttp://localhost:8081/IBSS	S/ アーをで @ SoftRater Server () ×	☆ ☆
<u>File Edit View Favorites T</u> ools	Help	
	bridge SoftRater Server – JBoss	04.09.00
□ □ IBSS 10 □ Config 11 □ Nodes 12 Help	Global Config File [C:\Insbridge\Config\insbridge.net.softraterconfig.xml] The Insbridge SoffRater Server cluster consists of multiple SoffRater Server instances running simultaneously and working together to provide increased scalability and reliability. Insbridge SoffRater Server instances that constitute a duster can run on the same machine, or be located on different machines. This administration web will configure any Insbridge SoffRater Configuration file found on your network. All nodes in a duster should share the same file.	^
	Options The options below are shared by each node that shares the softrater config file.	
	Click on the option in the list to edit.	
	location - PRODUCTION	
	<u>Help Server</u> - 10.100.10.100	
	Add Node	
	Node(s) are Insbridge SoftRater Servers that you would like the web admin to manage.	
	Click on the id of the SoftRater Node in the list to edit.	
	No endpoints found.	
	Add Subscriber The subscriber identifier is an unique number that you would like to represent your company. Please consult with an Insbridge support representative if you have any questions.	
	Click on the id of the subscriber in the list to edit.	
	∲ <u>8659</u> - Alamere	
	Add Environment	
	Cited on Concernments	
	System Environments	
	♦ <u>CONTROLLER</u> -	
	Click on the name of the connection to edit, or <u>click here</u> to add a new environment.	
	No Connections found.	~

2. A separate screen is displayed. Enter the following information:

For DSN Entries

Subscriber: Select the name of the subscriber from the menu.

Environment Name: A name for the environment. This is the friendly name.

Environment Type: Select the type of connection:

- DSN The connection information is held by the Insbridge system.
- **JNDI** The connection is an EJB Lookup and information is not held by the Insbridge system.

Database Server: The name or IP address of the server where packages are loaded.

Database Port: Listening port for the target Database Management System.

Default port numbers:

- SQL Server 1433
- Oracle 1521
- DB2 50000

Query Block: For certain Database Management Systems (DBMS), system batch query optimization is required for performance and/or because of limits on/in the system. This value will control the maximum number of batch query operations that can be submitted to the target DBMS in any one transaction.

For DB2, enter a query size that is relative to the SQL statement heap size. For example, if your SQL statement heap size is 2048, you may want to enter a query size of 5. The larger the heap size, the larger the query size can be.

You may also need to increase the application heap size.

Query block is not needed for SQL Server or Oracle databases.

Database Name: The name of the database where packages are loaded.

Schema Name: The schema name for the database. Schema Name is not needed for SQL connections.

Database User Id: The username to access the database.

Database Password: The password for the username entered.

Provider Type: The type of the database

- ORACLE
- DB2
- DB2(AS400)
- MS SQL SERVER

Database Type: The type of database being accessed:

- SoftRater The default. This option should be used for most installations.
- RateManager Supported for selected installations. Please contact Support.
- **OTHER** Not used at this time.

Data Dir: The location of the SoftRater Packages (SRP's) on the server.

Default Environment: Select if this is to be used as the default environment. The default environment is used when no environment is specified. There can be only one default environment. The default environment is indicated with a red icon.

3. When you are finished entering information, click **Save**.

🗿 Webpage Dialog		x
SoftRate	er Server 🖍 Se	rver ^{close}
Options		
Please enter/update your 18	SS Option information.	
Subscriber:	Alamere	
Environment Name:	PROD_B	
Environment Type:	DSN 🗸	
Database Server:	localhost	
Database Port:	1433	
Query Block:		
Database Name:	IBSR_Production_B	
Schema name:		
Database User Id:	sa	
Database Password:	•••••	
Provider Type	MS SQL Server 💙	
Database Type:	SoftRater V	
Data Dir:	C:\Insbridge\Production_B	
Default Environment:	True V	
Save Delete		Test Connection! Close

Figure 25 Environment Setup

4. Before you can use the new or edited environment for rating, you need to reload the configuration XML file. This is done by resetting the environments. On the left hand side of the IBSS home page, expand Nodes and select the Reset Environments option. You will be placed on the Reset Environment Configuration page. Click **Execute**. The screen refreshes and each node will be reset. Click IBSS to return to the home page.

For JNDI Entries

Subscriber: Select the name of the subscriber from the menu.

Environment Name: A name for the environment. This is the friendly name.

Environment Type: Select the type of connection:

- DSN The connection information is held by the Insbridge system.
- **JNDI** The connection is an EJB Lookup and information is not held by the Insbridge system.

Name: The name of the data source.

Context Factory: A *URL context factory* is a special object factory that creates contexts for resolving URL strings.

RMI: The Java Remote Method Invocation used.

URL Host: The name or IP of the host server.

URL Port: The port number used by the host server.

Provider Type: The type of the database

- ORACLE
- DB2
- DB2(AS400)
- MS SQL SERVER

Database Type: The type of database being accessed:

- SoftRater The default. This option should be used for most installations.
- RateManager Supported for selected installations. Please contact Support.
- **OTHER** Not used at this time.

Data Dir: The location of the SoftRater Packages (SRP's) on the server.

Default Environment: Select if this is to be used as the default environment. The default environment is used when no environment is specified. There can be only one default environment. The default environment is indicated with a red icon.

5. When you are finished entering information, click **Save**.

ł	🥭 Webpage Dialog			x
	SoftRate	er Server r Ser	ver	<u>close</u>
	Options			
	Please enter/update your IB	SS Option information.		
	Subscriber:	Alamere		
	Environment Name:	BATCH		
	Environment Type:	JNDI 🗸		
	Name:	jdbc/batchDB]	
	Context Factory:	weblogic.jndi.WLInitial ContextFactory]	
	RMI:	t3		
	Url Host:	localhost		
8	Url Port:	7001		
1	Provider Type	ORACLE		
1	Database Type:	SoftRater V		
	Data Dir:			
1	Default Environment:	False 🗸		
	Save Delete	Tes	t Connection! C	ose
	Lining Delete			
L.	The second s	AND THE CARE CARE AND A CONTRACT AND A C	and a second	

Figure 26 Creating a JNDI Environment

Before you can use the new or edited environment for rating, you need to reload the configuration XML file. This is done by resetting the environments. On the left hand side of the IBSS home page, expand Nodes and select the Reset Environments option. You will be placed on the Reset Environment Configuration page. Click **Execute**. The screen refreshes and each node will be reset. Click IBSS to return to the home page.

Step 3: Adding a Node:

Every IBSS instance requires a node. Nodes allow for the management of multiple environments from one location. Nodes contain cache and log information for each environment as well as a reset option.

File Edite View Envertice Table	S/ D + C C C SoftRater Server (PRODUCT ×	
<u>Pile Edit View Pavorites Tools</u>	<u>T</u> eb	
	sbridge SoftRater Server - JBoss	04.09.00
ESS E Config E Nodes W Help	Global Config File [C\]nsbridge\Config\insbridge.http://config.insbridge.http://config.insbridge.soffRater Server instances running simultaneously and working together to provide increased scalability and reliability. Instridge SoffRater Server instances that constitute a cluster can run on the same machine, or be located on different machines. This administration web will configure any Insbridge SoffRater Configuration file found on your network. All nodes in a cluster should share the same file	^
	The options below are shared by each node that shares the softrater config file.	
	Click on the option in the list to edit.	
	location - PRODUCTION	
	<u>TRID Server</u> - 10.100.10.100	
	Add Hode Node(s) are Insbridge SoftRater Servers that you would like the web admin to manage.	
	Click on the id of the SoftRater Node in the list to edit.	
	No endpoints found.	
	Add Subscriber The subscriber identifier is an unique number that you would like to represent your company. Please consult with an Insbridge support representative if you have any questions.	
	Click on the id of the subscriber in the list to edit.	
	∲ <u>8659</u> - Alamere	
	Add Environment Create or edit an environment.	
	Click on the name of the environment to edit. System Environments	
	• <u>CONTROLLER</u> - jdbc:oracle:thin:@10.100.10.100:1521:orcl	
	Click on the name of the connection to edit, or click here to add a new environment. Amere PROD_A = jdbc:oracle:thin:@10.100.10.100:1521:PROD_A PROD_B = jdbc:db2://10.100.10.100:50000/PROD_B PROD_C =	v
	jdbc:sqiserver://10.100.100:1433;ProgramName=jSoftRater;DatabaseName=PROD_C	

Figure 27 Adding a Controller Database Connection

To create a node, server information is needed:

- Server OS
- Server Name or IP Address
- Port Used
- 1. From the IBSS home page, click the **Add Node** link.
- 2. This opens the Add Subscriber window.

-	🗿 Webpage Dialog	×	
	SoftRate	r Server	
	SoftRater Server Node Inst	ance	
	Please enter the Insbridge Soft It is recommended that each n SoftRater Config XML.	Rater Server you would like IBSS to manage ode configured on an IBSS share the same	
	Server OS:	Linux 🗸	
1	Server Host/IP Address (Port):		
ł	Name:		
	Secure:		
		Add Ping Server Cancel	

Figure 28 Adding a Node

- 3. Select the server operating system from the drop down. There are three choices, Linux, Mainframe and Windows.
- 4. Enter the server host name or IP address and port. The default ports:
 - WebLogic: Port 7001
 - WebSphere: Port 9080
 - **JBoss:** Port 8080

The format for this is: [SERVER NAME]:[PORT NUMBER]

- 5. Enter a friendly name. This is the name displayed for the node.
- 6. Check if this is a secure environment. A secure environment connects using HTTPS.
- 7. It is recommended that the Ping Server option be used to test the connection. This is an optional step but can be helpful. If a connection cannot be made, the node cannot be saved.
- 8. Click **Add** to add the node. If a node cannot be added, an error message is displayed. Please correct the error and try again.

NOTE: It is recommended that server names or IP addresses be used over localhost.

STEP 3: INSTALLATION OF ORACLE CLIENT

If the Oracle Client has already been installed and configured, you can skip this step. Return to the machine where the Insbridge system was installed. One instance of the Oracle client is all that is required. If you have more than one Oracle environment that you want to connect, for example a QA environment and a Production environment, you will only need to run the Oracle client once.

Running the Oracle Client

Run the Oracle Client. On the machine where the Insbridge system was installed, you will need to run the Oracle client. This will allow IBFA to communicate with the Oracle database.

👔 Oracle Client _ 🗆 🗙 👻 🌆 Search Q <u>E</u>dit Tools <u>H</u>elp File View Views 🔻 0 Organize 🔻 - Size - Tags ▼ Date modified ▼ Type Name 🔺 Favorite Links 👗 doc 8/31/2010 10:39... File Folder Documents 8/31/2010 10:37... File Folder install 📘 Pictures 8/31/2010 10:37... File Folder response 📳 Music stage 8/31/2010 10:38... File Folder 🛃 setup 7/24/2008 9:28 PM Application 328 KB More » 11/27/2007 12:4... Configuration Se... setun 1 KB 🥭 welcome 3/7/2009 4:08 PM HTML Document 4 KB Folders × 🖃 📗 Downloads * 🖃 퉬 Insbridge 4.0.1-insbridge-doc 🖃 퉬 4.0.1-insbridge-IBRU 📔 Databases 퉬 IE7_IE8 Users] Oracle BI Publisher 🕀 🌗 Oracle Client Misc Downloads 🕀 퉬 OIDC 🕀 💽 Favorites 📗 Links 📳 Music E Pictures Saved Games 🕀 🔡 Searches 📑 Videos 🕀 🚹 Public 🕀 👰 Computer

For a 64-bit environment, please make sure you have the 64-bit Oracle Client.

Figure 29 Locating the Oracle Client for 64-bit Installs

- 1. In the 04.09.00-insbridge-Insbridge folder, locate the Oracle Client folder.
- 2. Select the setup application. The Oracle client installation will begin.

😹 Oracle Universal Installer: Select Installation Type	
	ORACLE 11g
	DATABASE
Select Installation Type	
Oracle Client 11.1.0.7.0	
What type of installation do you want?	
CInstantClient (184MB)	
Installs Instant Client software.	
C Administrator (792MB)	
Installs the management console, management tools, networking services, utilities, basic o	lient software.
Runtime (483MB)	
Installs tools for developing applications, networking services and basic client software.	
OCustom	
Enables you to choose individual components to install.	
	Product Languages)
Help Installed Products Back Next	Install Cancel
	(instant)

Figure 30 Running the Oracle Client

- 3. Select **RUNTIME** as the Installation Type.
- 4. Click **NEXT**.
- 5. For the Summary Inside Oracle Providers for .NET, the Oracle Client, you must use a LOCAL DRIVE, i.e. C:\app\oracle-insbridge.
- 6. Click **NEXT**.
- 7. You can leave the defaults and **INSTALL**.

STEP 4: ENTERING YOUR IBSS INSTANCE IN IBFA

IBFA will need to communicate with the IBSS environment. This will allow for packages to be loaded. There are two parts that will need to be completed:

- 1. Create an environment.
- 2. Configure the environment.

A SoftRater environment may be completed at installation or can be added at a later time. A SoftRater environment can be on a Windows machine or a Java machine running an application server, such as JBoss. There is no limit to the number of SoftRater environments that you can have.

- 1. Enter IBFA.
- 2. Browse to **SoftRater→Explorer→Subscriber name**.
- 3. Click on Add Environment.
- 4. Enter a **Name** and select a **Typ**e. For example, you can create a Quality Control environment with a type of Quality Assurance.
- 5. Select the **Environments** link under the Configuration header on the left hand side to enter the configuration information for the newly created logical environment. You will be placed on the Environments screen. The environments you previously setup will be listed. If an environment is missing, you must return to the Configuration subtab and add it.

	idge Framework Administ	rator				Version 04.09.00 (x64)
B-Ca Instridge	Content	Settings				
Software Software Gover Conversion Software Softwar	Content	Settings Environment(s) you Environment(s) you Di Serveri Di Serveri Di Catalogi Di Catalo	PRODUCTION Nervice for production purposes. S SR. Crijbnendep Pladages _ JR OS Service 3058.act 3058.act 3058 20058 10044-031	electing an environme	nt below will denote it as the default.	
< >		Save	Copyright @ 2000,	2009, Oracle and/or it	is affliates. All rights reserved.	~

Figure 31 Editing Environment

- 6. The Environment Name will be complete. No changes are needed.
- 7. Enter in the file path where you want packages stored in the **Package Location**. Use the Test Environment option to have the location created for you.
- 8. Enter in the **DBServer** name or IP address. This is the database server where the SoftRater database was restored or created.
- 9. Select the **DB Server Type** that you are using.
- 10. The **DB Catalog** is the name of the SoftRater database restored in SQL Server. For example, IBSR_QA.
- 11. The DB Catalog Type is SoftRater.
- 12. **DB Query Buffer** is the Query Block entry from IBSS. An entry is required if you are using a DB2 database. For SQL or Oracle, no entry is needed.
- 13. DB Tablespace is not required for a SoftRater environment
- 14. The **DB Schema** is the name of the schema that defines the structure of the database. This information may be obtained from the DBA.
- 15. Enter the **DB User** name and **Password**.
- 16. Select the Engine Type.
- 17. The **Engine Location** is the location of where you installed the SoftRater engine. You can use the machine name or IP address. For WebSphere, WebLogic or JBoss, you must also include the port. For example, a JBoss server may have "WBServerName:8080" as the entry.
- 18. The **Engine EnvDef** is the machine name if the engine is located on a different server. You can use the machine name or IP address.
- 19. Click **SAVE** to save your entries.

NOTE: If the JBoss environment is not responding, you may need to stop and start the JBoss service.

For more information on setting up environments, please see the Insbridge Framework Administrator User Guide.

Chapter 6

INSTALLATION PROCEDURES – UTILIZING AN IBM DB2 DATABASE

The following is a check list of the installation steps needed to perform a NEW SoftRater for JBoss Installation utilizing an IBM DB2 (DB2) database:

- 1. Create a DB2 database.
- 2. Create a JBoss entry in IBSS.
- 3. Run the DB2 Client on the machine where the Insbridge system was installed.
- 4. Create a JBoss entry in IBFA

Required DB2 Client

To obtain the DB2 client, please visit the IBM website and download the Client for IBM Data Server Runtime Client, Version 9.5 with fix pack 8.

You also can perform a search for "IBM Data Server Runtime Client, Version 9.5 with fix pack 8"

NOTE: You may need to create a free user account to download materials.

STEP 1: CREATING A DB2 DATABASE

Because many corporate environments have a separation between the system administrator and the database administrator, the following process may require both administrators' access and permissions.

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.

Before proceeding, please have ready:

- The LOBs that your company uses. You will need the ID number for each LOB.
- Your subscriber number.
- Location of the Insbridge files.

Oracle Insurance does not have specific requirements, whatever requirements are deemed necessary by your company's internal standards will work. It is recommended that you included the version number or environment name if you are planning on creating more than one instance.

These instructions are high level and require that the setup person be a DBA.

1. On your DB2 database, run all **DDLs**.

NOTE: If you do not have database permissions, you will not be able to perform the following database procedures. The Insbridge user must be granted "Connect to database". "Create Tables", and "Create packages" authorities.

- a) Create default tablespace for the Soft Rater database.
 - If a database table needs to be added, the DDLs are located in the IBFA Installation Directory under the SoftRater/DDL folder. I.e. [INSTALL_DIR]/Insbridge/SoftRater/DDL.
 - You will have to replace the TABLESPACE name in the scripts with the tablespace name you used when you created the database.
 - On the DT tables, you will need to create one for every LOB. An example of the format is in the comments of the script. It requires the LOB ID number and the customer number.
- b) Create user IBSR and assign Connect to database, Create Tables and Create packages authorities.
- 2. On your DB2 database, you will need to run a DT table script for each LOB.
- 3. After all DT tables have been created, please make note of:
 - Schema
 - Instance
 - User name
 - Password

This information will need to be passed along to the Insbridge installer. This information is needed to create a logical environment.

Location of DB2 DDL Directory

If a database table needs to be added in SoftRater, the DDLs are located in the IBFA Installation Directory under the SoftRater/DDL folder. I.e. [INSTALL_DIR]/Insbridge/SoftRater/DDL.

db2.create.dt.template.sql.txt db2.create.packages.sql.txt db2.create.packages_lk.sql.txt db2.create.packages_rl.sql.txt db2.create.packages_si.sql.txt db2.create.packages_so.sql.txt

This information may be needed if you are attempting to add an LOB and receive missing table errors. Creating tables in DB2 should be performed by a qualified DBA.

STEP 2: ADDING DB2.JAR FILE

In order to establish a connection to DB2, the jar file **db2jcc** needs to be added to the server classpath before deployment. The required DB2.jar file is not a part of the Insbridge application installation.

Steps to Add the DB2. jar to the Server Classpath:

- 1. Download the db2jcc.jar file from http://www.java2s.com/Code/Jar/d/Downloaddb2jccjar.htm.
- 2. Save the db2jcc.jar file to some location in your machine, for example <db2_location>.
- 3. Create a new custom folder in <JBOSS_HOME>/modules/system/layers/base/com/ibm/db2/jcc/main.
- 4. Copy the **db2jcc.jar** file there from *<db2_location>* created in step 2.
- 5. Create a new file **module.xml** with the following content in the new folder under **main**:

```
<?xml version="1.0" encoding="UTF-8"?>
<module xmlns="urn:jboss:module:1.0" name="com.ibm.db2.jcc">
<resources>
<resource-root path="db2jcc.jar"/>
</resources>
<dependencies>
<module name="javax.api"/>
</dependencies>
</dependencies>
</module>
```

- 6. The db2 module must be added to all deployments in the **standalone.xml** file.
- 7. Find the location of the standalone.xml file : <Jboss_home>\standalone\configuration

NOTE: For standalone mode it is the standalone/configuration/standalone.xml file and for the domain mode it is domain/configuration/domain.xml.

- 8. Make a backup copy of the standalone.xml file for safety. If the file you are editing gets corrupted, you can restore the original file.
- Add the following below the <global-modules> node under server/profile/<subsystem xmlns="urn:jboss:domain:ee:1.1">

<subsystem xmlns="urn:jboss:domain:ee:1.1">

<global-modules>

</global-modules>
</global-modules>
</global-modules>
</spec-descriptor-property-replacement>false</spec-descriptor-property-replacement>

</subsystem>

10. Save the standalone.xml file.

STEP 3: SETTING UP A JBOSS ENVIRONMENT IN IBSS

There are three steps that will need to be done in IBSS:

- Step 1: Creating a New Subscriber
- Step 2: Creating a SoftRater Environment
- Step 3: Adding a Node

Open an Internet Explorer web browser and browse to the following location, replacing ServerName with the actual server name where JBoss resides:

http://<ServerName or IP Address>:8080/IBSS

Security Enabled

Security is enabled by default; users are presented with a login screen. A user name and password must be entered to gain access. Information regarding the status of the system is presented but will not be accessible. The default is for security to be enabled.

(-) (=) ttp://localhost:7001/	BSS/			오 - 🗟 Ċ 🛛 🧉 SoftF	ater Server (PRODUCT ×				ስ 🛧 🛱
File Edit View Favorites To	ls Help								
			_						
	Insbridge SoftRater Server	- WebLogic							04.09.00
UserName	Global Config File	e [C:\Insbridg	e\Config	\insbridge.net.softratercor	fig.xml]				\sim
Password	The Insbridge Soft	Rater Server clus	ter consis	ts of multiple SoftRater Server	instances running simultaneously ar	nd working			
	together to provide run on the same m	increased scalat achine, or be loc	oility and ated on d	reliability. Insbridge SoftRater S lifferent machines. This adminis	erver instances that constitute a clu tration web will configure any Insbr	uster can ridge			
Submit	SoftRater Configura	ation file found or	n your ne	twork. All nodes in a cluster sh	ould share the same file.				
Subilit									
	Status								
	Nodo Namo	Nodo Statur	Sandica	Config last time changed	Connector last time changed	1MS Status	Email Statue		
	* INSBRIDGE	Active	OFF	2014-04-10 02:25:51 PM	None	Error	Error	1	
	PRODUCTION A	Active	OFF	2014-04-10 02:25:51 PM	None	Error	Error	1	
	PRODUCTION B	Active	OFF	2014-04-10 02:25:51 PM	None	Error	Error]	
	PRODUCTION C	Active	OFF	2014-04-10 02:25:51 PM	None	Error	Error		
	PRODUCTION D	Active	OFF	2014-04-10 02:25:51 PM	None	Error	Error	J	
	Options The options below a	re shared by eac	h node th	at shares the softrater config f	le.				
		,							
	Click on the optic	on in the list to	edit.						
	location - PROD	UCTION							
	help server - 10	.100.10.100							
	Add Node								
	Node(s) are Insbrid	ge SoftRater Serv	vers that	you would like the web admin to	manage.				
	Click on the id of	the SoftRater	Node in 1	the list to edit.					
	PRODUCTION	- 10.100.10.10	00:7001						
	PRODUCTION	A - 10.100.10	.100:70	10					
	PRODUCTION	<u>C</u> - 10.100.10 <u>C</u> - 10.100.10).100:70	11					
	PRODUCTION	<u>D</u> - 10.100.10	0.100:70	13					
	Add Subscriber								
	The subscriber ident	tifier is an unique	number t	hat you would like to represent	your company. Please consult with a	an			
	insprage support re	epresentativé if y	ou nave a	any questions.					
	Click on the nam	e of the enviro	nment t	o edit.					\sim
	System Environ	ments							

Figure 32 Security Enabled in IBSS

When Security is enabled, a default user "admin" with a default password of "insbridge" is assigned. This is the user name and password to be used the first time you enter IBSS. It is strongly recommended that the password be updated at the first log in.

IBSS Home

← → Attp://localhost:8081/IBSS	🖉 🔎 🖛 📓 🖒 D 🖛 📓 D 🖉 SoftRater Server () 🛛 🗙	♠ ★ 臻
<u>File Edit View Favorites Tools</u>	Help	
	ondge Sonrater Server - JBoss	04.09.00
	Clabal Config File [Ci/Tacheidae) Config/incheidae net coffeetaeconfig vol]	~
E Gonfin	The Insbridge SoftRater Server cluster consists of multiple SoftRater Server instances running simultaneously and working	
E D Nodes	together to provide increased scalability and reliability. Insbridge SoftRater Server instances that constitute a cluster can run on the same machine, or be located on different machines. This administration web will configure any Insbridge SoftRater	
🕐 Help	Configuration file found on your network. All nodes in a cluster should share the same file.	
	Ontions	
	The options below are shared by each node that shares the softrater config file.	
	Click on the option in the list to edit.	
	location -	
	help server -	
	Add Node Node(s) are Insbridge SoftRater Servers that you would like the web admin to manage.	
	Click on the id of the SoftRater Node in the list to edit.	
	No endpoints found.	
	Add Subscriber	
	The subscriber identifier is an unique number that you would like to represent your company. Please consult with an Insbridge support representative if you have any questions.	
	Click on the id of the subscriber in the list to edit.	
	No Subscribers found.	
	Add Environment	
	Click on the name of the environment to edit. System Environments	
	CONTROLLER -	
	· <u>Serritzeen</u>	
		\sim

Figure 33 IBSS JBoss Main Page

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

Step 1: Creating a Subscriber:

A *subscriber* is a group or collective of users and environments under a single identity. This identity is used to manage and configure the group's activities and databases. A subscriber may be a single company, a group within a company, or a single person.

The ID and Name must match across all environments. If you have created a subscriber in IBFA, use the same ID and Name here. If you have not created a subscriber, you can create them here and then use the same information in other environments. The ID and Name are fixed after the first time you save. These entries cannot be edited.

+ ttp://localhost:8081/IBSS/	/ ♀ ► C Ø SoftRater Server () ×	h ★ ‡
<u>File Edit View Favorites Lools</u>	Help	
	bridge SoftRater Server - JBoss	04.09.00
IBSS E ☐ Config T ☐ Nodes W Help	Sideal Config File [C:\Insbridge \Config\\insbridge.net.softraterconfig.xml] The Individge SoftRater Server duster consists of multiple SoftRater Server instances that constitute a duster can run on the same machine, or be located on different machines. This administration web will configure any Insbridge SoftRater Configuration file found on your network. All nodes in a duster should share the same file. Options	
	Add Environment Create or edit an environment. Click on the name of the environment to edit.	
	S System Environments	v

1. Click on Add Subscriber. A separate screen is displayed.

Figure 34 Adding a Subscriber

2. Enter the ID, and Name for your subscriber.

The Subscriber ID can be a 1-5 digit number and must unique for each subscriber. For example, if you have an instance of IBFA on machine A, you can create a subscriber with an ID of 100. On machine A, if you create another subscriber, you must give that subscriber a different ID number, say 200. If you also have an instance of IBFA on a different machine, B for example, you should duplicate the same subscribers with the same ID numbers on machine B.

If you require assistance or are unsure of what action to take, please log a Service Request using My Oracle Support at <u>https://support.oracle.com/</u>.

8	W	lebpage Dialog	x
	So	oftRater Server	<u>close</u>
<u>5</u>	ubscr	iber	
Pl	ease e	enter the subscriber information below.	
Id	l:	8659	
Na	ame:	Alamere ×	
		Add	Cancel

Figure 35 Enter ID

3. When you finish entering the information, click **Save**. The new subscriber will now be displayed in the list of subscribers.

NOTE: Make note of the subscriber ID number. You may need to enter this on another IBFA or IBSS environment.
Step 2: Creating a SoftRater Environment:

The **Environment Setup** section allows you to configure rating environments. An environment is a pointer to a location where SoftRater Packages (SRP's) are stored and loaded. There is no limit to the number of environments you may have.

1. Select **Add Environment** from the IBSS Main page. You will be placed on the environment window.

+ State of the second s	🖉 🔎 – 📓 🖒 🌈 SoftRater Server ()	🔒 🛠 🛱
<u>F</u> ile <u>E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools	Help	
	bridge SoftRater Server - JBoss	04.09.00
IBSS IDSS IDSS IDS	Global Config File [C:\Insbridge \Config \insbridge.net.softraterconfig.xml] The Insbridge SofRater Server duster consists of multiple SofRater Server instances running simultaneously and working together to provide increased scalability and reliability. Insbridge SofRater Server instances that constitute a duster can run on the same machine, or be located on different machines. This administration web will configure any Insbridge SofRater Configuration file found on your network. All nodes in a duster should share the same file.	^
	Options The options below are shared by each node that shares the softrater config file.	
	Click on the option in the list to edit. <u>location</u> - PRODUCTION help server - 10.100.10.100	
	Add Node	
	Node(s) are Insbridge SoftRater Servers that you would like the web admin to manage. Click on the id of the SoftRater Node in the list to edit.	
	No endpoints found.	
	Add Subscriber The subscriber identifier is an unique number that you would like to represent your company. Please consult with an Insbridge support representative if you have any questions.	
	Click on the id of the subscriber in the list to edit.	
	∲ <u>8659</u> - Alamere	
	Add Environment Create or edit an environment.	
	Click on the name of the environment to edit. System Environments	
	♥ <u>CONTROLLER</u> -	
	Click on the name of the connection to edit, or <u>click here</u> to add a new environment.	
	No Connections found.	~

2. A separate screen is displayed. Enter the following information:

For DSN Entries

Subscriber: Select the name of the subscriber from the menu.

Environment Name: A name for the environment. This is the friendly name.

Environment Type: Select the type of connection:

- DSN The connection information is held by the Insbridge system.
- **JNDI** The connection is an EJB Lookup and information is not held by the Insbridge system.

Database Server: The name or IP address of the server where packages are loaded.

Database Port: Listening port for the target Database Management System.

Default port numbers:

- SQL Server 1433
- Oracle 1521
- DB2 50000

Query Block: For certain Database Management Systems (DBMS), system batch query optimization is required for performance and/or because of limits on/in the system. This value will control the maximum number of batch query operations that can be submitted to the target DBMS in any one transaction.

For DB2, enter a query size that is relative to the SQL statement heap size. For example, if your SQL statement heap size is 2048, you may want to enter a query size of 5. The larger the heap size, the larger the query size can be.

You may also need to increase the application heap size.

Query block is not needed for SQL Server or Oracle databases.

Database Name: The name of the database where packages are loaded.

Schema Name: The schema name for the database. Schema Name is not needed for SQL connections.

Database User Id: The username to access the database.

Database Password: The password for the username entered.

Provider Type: The type of the database

- ORACLE
- DB2
- DB2(AS400)
- MS SQL SERVER

Database Type: The type of database being accessed:

- SoftRater The default. This option should be used for most installations.
- **RateManager** Supported for selected installations. Please contact Support.
- **OTHER** Not used at this time.

Data Dir: The location of the SoftRater Packages (SRP's) on the server.

Default Environment: Select if this is to be used as the default environment. The default environment is used when no environment is specified. There can be only one default environment. The default environment is indicated with a red icon.

3. When you are finished entering information, click Save.

🗿 Webpage Dialog		X
SoftRat	er Server r Serve	<u>close</u>
Options	RCC Online information	
Please enter/update your It		
Subscriber:	Alamere	
Environment Name:	PROD_B	
Environment Type:	DSN 🗸	
Database Server:	localhost	
Database Port:	1433	
Query Block:		
Database Name:	IBSR_Production_B	
Schema name:		
Database User Id:	sa	
Database Password:	•••••	
Provider Type	MS SQL Server 💙	
Database Type:	SoftRater 💙	
Data Dir:	C:\Insbridge\Production_B	
Default Environment:	True 🗸	
Save Delete	Test Connection!	Close

Figure 36 Environment Setup

4. Before you can use the new or edited environment for rating, you need to reload the configuration XML file. This is done by resetting the environments. On the left hand side of the IBSS home page, expand Nodes and select the Reset Environments option. You will be placed on the Reset Environment Configuration page. Click **Execute**. The screen refreshes and each node will be reset. Click IBSS to return to the home page.

For JNDI Entries

Subscriber: Select the name of the subscriber from the menu.

Environment Name: A name for the environment. This is the friendly name.

Environment Type: Select the type of connection:

- **DSN** The connection information is held by the Insbridge system.
- **JNDI** The connection is an EJB Lookup and information is not held by the Insbridge system.

Name: The name of the data source.

Context Factory: A *URL context factory* is a special object factory that creates contexts for resolving URL strings.

RMI: The Java Remote Method Invocation used.

URL Host: The name or IP of the host server.

URL Port: The port number used by the host server.

Provider Type: The type of the database

- ORACLE
- DB2
- DB2(AS400)
- MS SQL SERVER

Database Type: The type of database being accessed:

- SoftRater The default. This option should be used for most installations.
- **RateManager** Supported for selected installations. Please contact Support.
- **OTHER** Not used at this time.

Data Dir: The location of the SoftRater Packages (SRP's) on the server.

Default Environment: Select if this is to be used as the default environment. The default environment is used when no environment is specified. There can be only one default environment. The default environment is indicated with a red icon.

5. When you are finished entering information, click **Save**.

🧃 Webpage Dialog		×
SoftRat	er Server r Ser	Ver
Options	SE Option information	
Subscriber:		
Subscriber.		
Environment Name:	BATCH	
Environment Type:	IDNL 🗸	
Name:	jdbc/batchDB]
Context Factory:	weblogic.jndi.WLInitial ContextFactory]
RMI:	t3	
Url Host:	localhost	
Url Port:	7001	
Provider Type	ORACLE V	
Database Type:	SoftRater V	
Data Dir:		
Default Environment:	False 💙	
Save Delete	Tes	t Connection! Close

Figure 37 Creating a JNDI Environment

Before you can use the new or edited environment for rating, you need to reload the configuration XML file. This is done by resetting the environments. On the left hand side of the IBSS home page, expand Nodes and select the Reset Environments option. You will be placed on the Reset Environment Configuration page. Click **Execute**. The screen refreshes and each node will be reset. Click IBSS to return to the home page.

Step 3: Adding a Node:

Every IBSS instance requires a node. Nodes allow for the management of multiple environments from one location. Nodes contain cache and log information for each environment as well as a reset option.

(a) (a) http://localhost.8081/IBSS	5/ D - E C BottRater Server (PRODUCT ×	<u>→</u> □ → ☆
<u>File Edit View Favorites Tools</u>	Help	
	bridge SoftRater Server - JBoss	04.09.00
E IBSS B Config B Nodes W Help	Global Config File [C:\Insbridge.\Config.\insbridge.net.softraterconfig.xml]. The Insbridge SoftRater Server duster consists of multiple SoftRater Server instances running simultaneously and working together to provide increased scalability and reliability. Insbridge SoftRater Server instances that constitute a duster can run on the same machine, or be located on different machines. This administration web will configure any Insbridge SoftRater Configuration file found on your network. All nodes in a duster should share the same file. Options The options below are shared by each node that shares the softrater config file. Click on the option in the list to edit. Incettion - PRODUCTION help server - 10.100.10.100 Hord Softer - Softer	^
	Add Node Node(s) are Insbridge SoftRater Servers that you would like the web admin to manage. Click on the id of the SoftRater Node in the list to edit. No endpoints found. 	
	Add Subscriber The subscriber identifier is an unique number that you would like to represent your company. Please consult with an Insbridge support representative if you have any questions. Click on the id of the subscriber in the list to edit.	
	Add Environment Create or edit an environment. Click on the name of the environment to edit. System Environments Image: CONTROLLER - jdbc:oracle:thin:@10.100.10.100:1521:orcl	
	Click on the name of the connection to edit, or click here to add a new environment. Amere PROD_A - jdbc:oracle:thin:@10.100.10.100:1521:PROD_A PROD_B - jdbc:ds://10.100.101.000:5000/PROD_B PROD_C - jdbc:sqlserver://10.100.10.100:1433;ProgramName=jSoftRater;DatabaseName=PROD_C	×

Figure 38 Adding a Controller Database Connection

To create a node, server information is needed:

- Server OS
- Server Name or IP Address
- Port Used
- 1. From the IBSS home page, click the **Add Node** link.
- 2. This opens the Add Subscriber window.

-	Webpage Dialog	X	
	SoftRate	r Server	
	SoftRater Server Node Inst	tance	
	Please enter the Insbridge Sof It is recommended that each r SoftRater Config XML.	tRater Server you would like IBSS to manage. node configured on an IBSS share the same	
	Server OS:	Linux 🗸	
1	Server Host/IP Address (Port):		
ł	Name:		
	Secure:		
1			
		Add Ping Server Cancel	

Figure 39 Adding a Node

- 3. Select the server operating system from the drop down. There are three choices, Linux, Mainframe and Windows.
- 4. Enter the server host name or IP address and port. The default ports:
 - WebLogic: Port 7001
 - WebSphere: Port 9080
 - **JBoss:** Port 8080

The format for this is: [SERVER NAME]:[PORT NUMBER]

- 5. Enter a friendly name. This is the name displayed for the node.
- 6. Check if this is a secure environment. A secure environment connects using HTTPS.
- 7. It is recommended that the Ping Server option be used to test the connection. This is an optional step but can be helpful. If a connection cannot be made, the node cannot be saved.
- 8. Click **Add** to add the node. If a node cannot be added, an error message is displayed. Please correct the error and try again.

NOTE: It is recommended that server names or IP addresses be used over localhost.

STEP 4: INSTALLATION OF DB2 CLIENT

If the DB2 Client has already been installed and configured, you can skip this step. Return to the machine where the Insbridge system was installed. One instance of the DB2 client is all that is required. If you have more than one DB2 environment that you want to connect, for example a QA environment and a Production environment, you will only need to run the DB2 client once.

Running the DB Client

Run the DB2 Client. On the machine where the Insbridge system was installed, you will need to run the DB2 client for the version you have. This will allow IBFA to communicate with the DB2 database.

For a 64-bit environment, please make sure you have the 64-bit DB2 Client.



Figure 40 Installing DB2 Client and Fix Pack

1. Select the setup application. The DB2 client installation will begin.

- 2. Leave all the defaults and click **NEXT**. The installation will begin.
- 3. Click **NEXT** as the installation continues.
- 4. Click **Finish** to complete the installation.

STEP 5: ENTERING YOUR IBSS INSTANCE IN IBFA

IBFA will need to communicate with the IBSS environment. This will allow for packages to be loaded. There are two parts that need to be completed:

- 1. Create an environment.
- 2. Configure the environment.

A SoftRater environment may be completed at installation or can be added at a later time. A SoftRater environment can be on a Windows machine or a Java machine running an application server, such as JBoss. There is no limit to the number of SoftRater environments that you can have.

- 1. Enter IBFA.
- 2. Browse to **SoftRater→Explorer→Subscriber name**.
- 3. Click on Add Environment.
- 4. Enter a **Name** and select a **Type**. For example, you can create a Quality Control environment with a type of Quality Assurance.
- 5. Select the **Environments** link under the Configuration header on the left hand side to enter the configuration information for the newly created logical environment. You will be placed on the Environments screen. The environments you previously setup will be listed. If an environment is missing, you must return to the Configuration subtab and add it.

	bridge Framework Administr	ator				Version 04.09.00 (x64)
X	Content	Settings				
E- SoftDater						
- Engine						
E- Diplorer		2	PRODUCTION			^
Alamere Insurance		Environment(s) your	nay use for production purposes. Se	secting an environme	ent below will denote it as the default.	
- SoftData		Environment:	CD	0		
E logs		Package Location:	C: Unsbridge Packages SR		Test Environment	
🕀 🦳 Security		D8 Server:	OracleD6 Server			
-\$5 Soft_braries		D8 ServerType:	Orade			
- 🕑 Help		DB Catalog:	IBSR_2			
		DB CatalogType:	SoftRater 🗸			
		DB Query Buffer:				
		D8 Tablespace:				
		D8 Schema:	orade			
		DB User:	53			
		DB Password:				
		Engine Type:	38055	100		
		Engine Location:	LOCALHOST	Location is a C	luster	
		Engine EnvOef:		Discover		
						~
1		Save				
				and the second		
			Copyright © 2000,	1009, Oracle and/or	its affiliates. All rights reserved.	

Figure 41 Editing Environment

- 6. The Environment Name will be complete. No changes are needed.
- 7. Enter in the file path where you want packages stored in the **Package Location**. Use the Test Environment option to have the location created for you.
- 8. Enter in the **DBServer** name or IP address. This is the database server where the SoftRater database was restored or created.
- 9. Select the **DB Server Type** that you are using.
- 10. The **DB Catalog** is the name of the SoftRater database restored in SQL Server. For example, IBSR_QA.
- 11. The DB Catalog Type is SoftRater.
- 12. **DB Query Buffer** is the Query Block entry from IBSS. An entry is required if you are using a DB2 database. For SQL or Oracle, no entry is needed.
- 13. **DB Tablespace** is not required for a SoftRater environment
- 14. The **DB Schema** is the name of the schema that defines the structure of the database. This information may be obtained from the DBA.
- 15. Enter the **DB User** name and **Password**.
- 16. Select the Engine Type.
- 17. The **Engine Location** is the location of where you installed the SoftRater engine. You can use the machine name or IP address. For WebSphere, WebLogic or JBoss, you must also include the port. For example, a JBoss server may have "WBServerName:8080" as the entry.
- 18. The **Engine EnvDef** is the machine name if the engine is located on a different server. You can use the machine name or IP address.
- 19. Click **SAVE** to save your entries.

NOTE: If the JBoss environment is not responding, you may need to stop and start the JBoss service.

For more information on setting up environments, please see the Insbridge Framework Administrator User Guide.

Support

CONTACTING SUPPORT

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

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

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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