

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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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 05.02.00.

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

Manual History

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
15 th Edition	P01-773-15	R 5.0	June 2015	Update Release JBoss 6.3
16 th Edition	P01-773-16	R 5.0.1	August 2015	Update Release
17 th Edition	P01-773-17	R 5.1	December 2015	Update Release
18 th Edition	P01-773-18	R 5.2	July 2016	Update Release

New editions incorporate any updates issued since the previous edition.

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. SQL Server backups files are located in the Insbridge-Windows folder. DDLs and updates are located in the SoftRater file on the Install Server.
- 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.

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-Windows: Required for all RateManager installations. The Insbridge installation is for a 64-bit system.
- Insbridge-WebSphere: Required if you are using WebSphere
- Insbridge-WebLogic: Required if you are using WebLogic
- Insbridge-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 Insbridge-Windows folder contents:

- Databases
 - SQL Server
 - 2008
 - RateManager: IBRM
 - Latin1_General_BIN
 - DATABASE_BACKUP_IBRM_TEMPLATE.bak
 - 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
 - Latin1_General_BIN
 - DATABASE_BACKUP_IBSR_TEMPLATE_CASE_SENSITIVE.bak
 - SQL_Latin1_General_CP1_CI_AS
 - DATABASE_BACKUP_IBSR_TEMPLATE.bak
 - 2012
 - RateManager: IBRM
 - Latin1_General_BIN
 - DATABASE_BACKUP_IBRM_TEMPLATE_CASE_SENSITIVE.bak
 - 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

- Oracle BI Publisher

- OBI_PUBLISHER.exe
- Oracle Client
 - ODAC121012_x64.zip
- Oracle Insurance Insbridge Enterprise Rating (x64).exe

The 05.02.00-Insbridge-jboss folder contents:

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

The 05.02.00-Insbridge-was folder contents:

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

The 05.02.00-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 11.

SETTING UP JBOSS

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

The SoftRater Server (IBSS) application servers WebLogic, WebSphere, and JBoss require read/write permissions on the Insbridge.net.softraterconfig.xml that resides in the shared directory for all nodes. Also required is full control on the SoftRater node instance directory creates the config files and log files for that JVM.

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 an already existing setup. IBFA uses port 80 by default. Please check with your system administrator for port conflicts with the existing setup. The ports used by SoftRater for Java can be changed from the default to a fixed port if needed.

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 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.

Database File Location

In the event that db_owner permissions are not possible, scripts will have to be run to create the necessary tables. Tables are required for each Project and or Product. If the tables are not created, the packages cannot be loaded.

DDL scripts can be found on the server where Insbridge was installed in the ...//Oracle/Insbridge/SoftRater folder.

For example: C:\Program Files\Oracle\Insbridge\SoftRater\DDL

File Home Share View	· · · · · · · · · · · · · · · · · · ·				~
🕒 💿 🔻 🕈 🌆 C:\Program File	es\Oracle\Insbridge\SoftRater\DDL		v C	Search DDL	م
🕌 Oracle	^ Name	Date modified	Туре	Size	
Insbridge COM+	🔑 DB2	5/24/2016 10:32 AM	File folder		
Framework	Oracle	5/24/2016 10:32 AM	File folder		
Framework B SDK	🎉 SqlServer	5/24/2016 10:32 AM	File folder		
🌗 SoftRater					
퉬 DDL					
퉬 DB2					
鷆 Oracle					
🌗 SqlServer					
🌗 Webs					
Insurance	~				

For SQL Server, backup files are included in the Insbridge-Windows folder under databases.

- Databases

- SQL Server
 - 2008
 - SoftRater: IBSR
 - Latin1_General_BIN
 - DATABASE_BACKUP_IBSR_TEMPLATE.bak
 - SQL_Latin1_General_CP1_CI_AS
 - DATABASE_BACKUP_IBSR_TEMPLATE.bak
 - 2012
 - SoftRater: IBSR
 - o Latin1_General_BIN
 - DATABASE_BACKUP_IBSR_TEMPLATE_CASE_SENSITIVE.bak
 - SQL_Latin1_General_CP1_CI_AS
 - DATABASE_BACKUP_IBSR_TEMPLATE.bak

If backup files cannot be used and DDL scripts are needed, SQL Server DDL scripts can be found on the server where Insbridge was installed in the ...//Oracle/Insbridge/SoftRater folder. For example: C:\Program Files\Oracle\Insbridge\SoftRater\DDL

SQL Server DDLs are not included in the Insbridge-Windows folder.

Microsoft SQL Server

SoftRater database schema supports MS SQL Server database platforms:

Versions – 2008 R2 and 2012

JDBC Driver Class

"com.microsoft.jdbc.sqlserver.SQLServerDriver"

User Account Requirements

Create Table

Create Index Execute on the SoftRater User Defined Stored Procedures

Oracle

SoftRater database schema supports ORACLE database platforms.

Versions - 11g, 12c

JDBC Driver Class

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

User Account Requirements

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

IBM DB2

SoftRater database schema is supported on version 9.7. Fix pack 8

Version – 9.7

JDBC Driver Class

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

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: Hard Deployment of IBSS.EAR File: Deployment option 1
Step 4: Start JBoss Server
Step 5: Deployment of IBSS.EAR File Using JBoss Console: Deployment option 2
Step 6: 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

SOFTRATER FOR JBOSS INSTALLATION

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: Hard Deployment of IBSS.EAR File: Deployment option 1
- Step 4: Start JBoss Server
- Step 5: Deployment of IBSS.EAR File Using JBoss Console: Deployment option 2
- Step 6: Test the application

Java Version

JBoss requires Java 1.7. Failure for the .EAR file to deploy may be a result of the wrong Java version being used.

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.

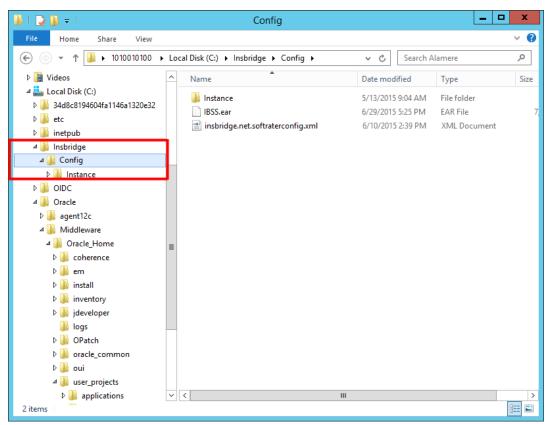


Figure 1 Location of Config and Instance Folders

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-6.3\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.

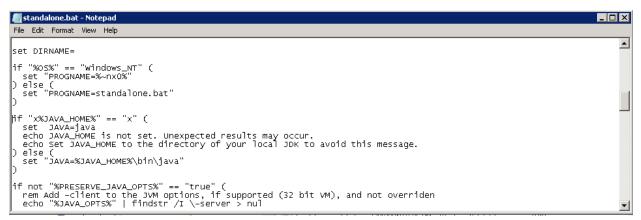


Figure 2 – Editing standalone.bat File

5. Locate the **DOS if instruction** that looks similar to the one in Figure 2. 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.

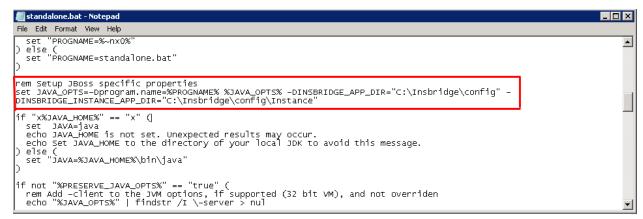


Figure 3 – Edited standalone.bat File

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-eap-6.3/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:

standalone.sh (/scratch/JBoss/jboss-eap-6.3/bin) - gedit	
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>S</u> earch <u>T</u> ools <u>D</u> ocuments <u>H</u> elp	
🎦 🚍 Open 🗸 🌆 Save 🚔 💧 🖓 Undo 🔗 🔛 🔚 🔚 🏙 🎥	
💽 standalone.sh 🗶	
fi export JBOSS_HOME	
#Setup JBoss specific properties set JAVA_OPTS=-Dprogram.name=%PROGNAME% %JAVA_OPTS% -DINSBRIDGE_APP_DIR="/scracth/Insbridge/Config" - DINSBRIDGE_INSTANCE_APP_DIR="/scratch/Insbridge/Config/Instance"	. HI
<pre># Read an optional running configuration file if ["x\$RUN_CONF" = "x"]; then RUN_CONF="\$DIRNAME/standalone.conf" fi if [-r "\$RUN_CONF"]; then . "\$RUN_CONF" fi</pre>	
<pre># Set debug settings if not already set if ["\$DEBUG MODE" = "true"]; then DEBUG_OPT=`echo \$JAVA_OPTS \$GREP "\-agentlib:jdwp"` if ["x\$DEBUG_OPT" = "x"]; then JAVA_OPTS="\$JAVA_OPTS -agentlib:jdwp=transport=dt_socket,address=\$DEBUG_PORT,server=y,suspend=n"</pre>	~
sh 🗸 Tab Width: 8 🗸 Ln 1, Col 1 🛛 INS	

Figure 4 Edited standalone.sh file

- 7. Save your changes.
- 8. The variable will be added to the Server the next time it 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.

Optional – Increasing the Timeout Settings

For long running batch processes in java, timeout settings should be updated to avoid timeout errors.

For example, an **EJB Transaction timeout** issue occurs when an EJB transaction takes more than configured time.

This issue can be solved by adjusting the Default Timeout on the admin console.

IRO								(0) Messages
API	SS' ENTERPRISE	ATF	ORM 6.0					Profile	Runtime
B P	rofile	^	Transactions						
-	Connector		-						
	JCA		Transaction						
	Datasources		The configuration	of the transa	actions subsystem.				
	Resource Adapter	s	Edit						
	Mail								Need Help?
	Container		Enable Statisti	ics: false		Enable TS	M Status: false		
F	Transactions		Enable J	πs: false		Use Hornet	Q Store?: false		
	Naming		Default Timeo	out: 120		Node I	dentifier:]		
	EJB 3								
	EE		Process ID	Recovery	Path				
	JPA		Edit						
	JacORB								Need Help?
÷	Core		Process ID UUI	ID?: true		Process I	D Socket:		
÷	Infinispan		Max Po	rts: 10					
±	Messaging								
±	OSGi								

NOTE: Depending on your setup, your console may differ and figures are for reference only.

STEP 3: HARD 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.

Skip to step 4 if you want to deploy the .EAR file using the JBoss console.

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.

The deployment will start automatically when the server is started.

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.

The deployment will start automatically when the server is started.

STEP 4: START JBOSS SERVER

This is a required step. 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-eap-6.3\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: /scratch/JBoss/jboss-eap-6.3/bin/standalone.sh. Select "./standalone.sh &" and right click. Select to run in terminal.

STEP 5: DEPLOYING THE IBSS.EAR USING THE JBOSS CONSOLE

Skip to step 6 if you deployed the .EAR file using the hard deployment method.

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.

RED HAT'JBOSS' ENTERPRISE APPLICATION PLATFORM 6.3.0.GA						
Home Configuration	Runtime Administration					
- Server	DEPLOYMENTS					
Overview Manage Deployments Patch Management Status	Deployments Currently deployed application components. Available Deployments					
 Platform JVM Environment Subsystems Datasources JPA JNDI View Transaction Logs 		Add Remove En/Disable Replace				
Transactions Web Webservices	Deployment No deployments available.					

Figure 5 Managing Deployment on the JBoss Console

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

Create Deployment

Managed Unmanaged

Step1/2: Deployment Selection

Please choose a file that you want to deploy.

	Cancel	Next »

Figure 6 Deployment Selection

- 6. Enter in the location of the IBSS.EAR file or Browse to select the file.
- 7. When the location is entered, click Next.

Create Deploymen	t	2 x
Step 2/2: Verify	Deployment Names	
Кеу:	p2udOx3YoMhoi9qXm9aBxFTj+14=	
Name:	IBSS.ear	
Runtime Name:	IBSS.ear	
	Cancel	Save //

Figure 7 Verifying Deployments

- 8. Verify your entries and click Save.
- 9. The file will be deployed but disabled.
 - Disable mode: To deny access to the .EAR file. This is the default mode.
 - Enable mode: To allow access to the .EAR file.

JVM IBSS.ear O	RED HAT JBOSS ENTERPRIS	SE APPLICATION PLATFORM 6.3.0.GA	Messages: 0 🛛 🛔 adminUse
Overview Manage Deployments Patch Management Status Platform JVM Environment Subsystems Datasources JPA JND View Transaction Logs Transactions Web Web Webservices	Home Configuration	Runtime Administration	
Manage Deployments Patch Management Status Platform JVM Environment Subsystems Datasources JPA JNDI View Transaction Logs Veb Web Webservices Deployment Deployment Deployment Deployment Deployment Deployment Deployment Deployment	- Server	DEPLOYMENTS	
Web Deployment Need Hel	Manage Deployments Patch Management Platform JVM Environment Subsystems Datasources JPA JNDI View Transaction Logs	Currently deployed application components Available Deployments	 En/Disable Replace
Name: IBSS.ear		Deployment	Need Help?
Runtime Name: IBSS.ear			

Figure 8 Enabling the Deployment

- 10. Click on the Enable/Disable icon to enable the IBSS.EAR.
- 11. You will be asked to confirm your selection.

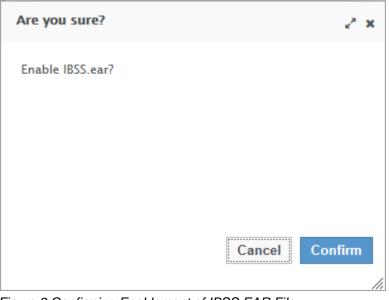


Figure 9 Confirming Enablement of IBSS.EAR File

12. The .EAR is deployed to the JBoss server and available to users.

STEP 6: 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:
 - SQL Server
 - 2008
 - SoftRater: IBSR
 - Latin1_General_BIN
 - DATABASE_BACKUP_IBSR_TEMPLATE.bak
 - SQL_Latin1_General_CP1_CI_AS
 - DATABASE_BACKUP_IBSR_TEMPLATE.bak
 - 2012
 - SoftRater: IBSR
 - Latin1_General_BIN
 - DATABASE_BACKUP_IBSR_TEMPLATE_CASE_SENSITIVE.bak

- SQL_Latin1_General_CP1_CI_AS
 DATABASE_BACKUP_IBSR_TEMPLATE.bak
- 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.

lorer Details]	×
	_
Databases	
ystem Databases	
atabase Snapshots	
Rater_Auditing	
	atabase Snapshots Rater_Auditing

6. Go to Databases.

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	Destination I	or restore						
	Select or	type the r	name of a new	or existir	ng database for your	restore operation.		
	T <u>o</u> datab	ase:	Γ	BSR_AI	amere			-
	<u>T</u> o a poir	it in time:	М	dost rec	ent possible			
	Source for re	estore —						
	Specifu t		and location of	backur	o sets to restore.			
			ana location of					
		database:						
	From	device:		C://F	Program Files\Microso	oft SQL Server\MSSQ	L.1\MSS	
			sets to restore:					
	Restore	Name		Туре	Server	Database	Position	First
			Database	Full	DBV001	IBSR_TEMPLATE	1	551
Connection								
Server: WINAPP003\SQL								
Connection:								
sa I View connection properties								
Progress								
Ready								
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	•							▶
							Carra	
						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.

SQL Server DDL File Location

For SQL Server, backup files are included in the Insbridge-Windows folder under databases.

If backup files cannot be used and DDL scripts are needed, SQL Server DDL scripts can be found on the server where Insbridge was installed in the ...\\Oracle\Insbridge\SoftRater\DDL\SQL folder. For example: C:\Program Files\Oracle\Insbridge\SoftRater\DDL\SQL

SQL Server DDLs are not included in the Insbridge-Windows folder.

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.

← 🕞 🥖 http://localhost:8081/IBSS/	P マ を C Ø Ø SoftRater Server () ×	合 🖈 🌣
<u>Eile Edit View Favorites Tools H</u>	elp	
	las Catilistas Casuar I Dose	05 00 00
	uge sourcater server - souss	05.02.00
UserName	Global Config File [C:\Insbridge\Config\insbridge.net.softraterconfig.xml]	^
Password	The Insbridge SoftRater Server cluster consists of multiple SoftRater Server instances running simultaneously and working 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 Configuration file found on your network. All nodes in a cluster should share the same file.	
Submit		
	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	
	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	
	♦ <u>CONTROLLER</u> -	
		~
L		

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

A successful log in places you on the Home page.

http://localhost:8081/IBSS		£ ★ \$
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools	Help	
	bridge SoftRater Server - JBoss	05.02.00
□ 🕞 IBSS IP 🥁 Config IP 🚵 Nodes Ø 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 relability. 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 -	
	help server -	
	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. Image: Ima	
	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.	
	♦ <u>CONTROLLER</u> -	
		~

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.

+ttp://localhost:8081/IBSS/	P → Z C SoftRater Server () ×	₼ ★ \$
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>F</u>	Help	
	ridge SoftRater Server - JBoss	05.02.00
CRACLE Insurance Instr BSS B Config B Nodes Ø Help	Indeg SoftRater Server - JBoss	05.02.00
	Click on the name of the environment to edit.	
	♦ CONTROLLER -	

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>.

	🥰 V	Vebpage Dialog	X
	Sc	oftRater Server	<u>close</u>
	<u>Subscr</u>	riber	
	Please	enter the subscriber information below.	
	Id:	8659	
•	Name:	Alamere ×	
		Add	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.

(+) (2) http://localhost:8081/IBSS		☆ ☆
<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	05.02.00
		~
□ □ IBSS ① □ Config	Global Config File [C:\Insbridge\Config\insbridge.net.softraterconfig.xm]] The Insbridge SoftRater Server duster 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 duster 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.	
	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 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.	

Figure 16 Creating an Environment

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
- ORACLE (BINARY_CI)
- 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 🗅 Se	erver ^{close}
Options		
Please enter/update your IB		
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 🗸	
Save Delete		Test Connection! Close

Figure 17 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
- ORACLE (BINARY_CI)
- 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			X
SoftRat	er Server r Ser	vei	<u>close</u>
Options			
Please enter/update your IB			
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 Delete	Tes	t Connection!	Close

Figure 18 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.

(=) (=) http://localhost:8081/IBSS	ジークマをC 2 SoftRater Server (PRODUCT ×	☆ ☆
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools	Help	
	bridge SoftRater Server - JBoss	05.02.00
□ 📮 IBSS 1 🔁 Config 1 🔁 🔁 Nodes 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Global Config File [C:\Insbridge\Config\\insbridge.net.softraterconfig.xml] The Insbridge SoftRater Server cluster consists of multiple SoftRater Server instances running simultaneously and working 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 Configuration file found on your network. All nodes in a cluster should share the same file.	
🜒 Help	<u>Options</u> 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.	
	Click on the id of the SoftRater Node in the list to edit.	
	No endpoints found.	
	Add Subscriber The 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	
	<pre>@<u>CONTROLLER</u> - jdbc:oracle:thin:@10.100.10.100:1521:orcl</pre>	
	Click on the name of the connection to edit, or click here to add a new environment. Amere PPCD_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	Ť

Figure 19 Adding a Node

To create a node, server information is needed:

- Server OS
- Server Name or IP Address
- Port Used
- Is security enabled (HTTPS)
- 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	
	-	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 20 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 **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.

C		-			-	× ا ا ا ا ا
	ge Framework Administ	ator				Version 05.02.00 (x64)
x Indendge SoftRater - SoftRater - Explore - Annece Staturance	Content	Settings Environment(s) your	PRODUCTION may use for production purposes. S	electing an environ	nent below will denote it as the default.	^
- SoftData - Services - B Caps		Environment: Package Location:	Prod C:\Insbridge\Packages\Prod	0	Test Environment	
Gostanty Gostanty		DB Server: DB ServerType: DB Catalog: DB CatalogType: DB Query Buffer: DB Query Buffer: DB Schema: DB Schema: DB User: DD Password:	10.100.10.100 502,Server v 1850,D8 SoftRater v 59 59 59 59			
		Engine Trype: Brigine Location: Brigine Bris/Deft	JUCOS V REMOTESER VER-8080 PRODUCTION	Location is a	Cluster 🗌 Location is Secure	
		Save				Ť.
			Copyright © 2000, 2009, Orade	and/or its affiliates	. All rights reserved.	

Figure 21 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.

Checking a SoftRater Database for Updates

All SoftRater databases can be checked for updates in IBFA.

- 1. SoftRater->Explorer->Subscriber->Settings->Environments.
- 2. Select the SoftRater environment with the database where you want to check for updates.
- 3. Click Test Environment.

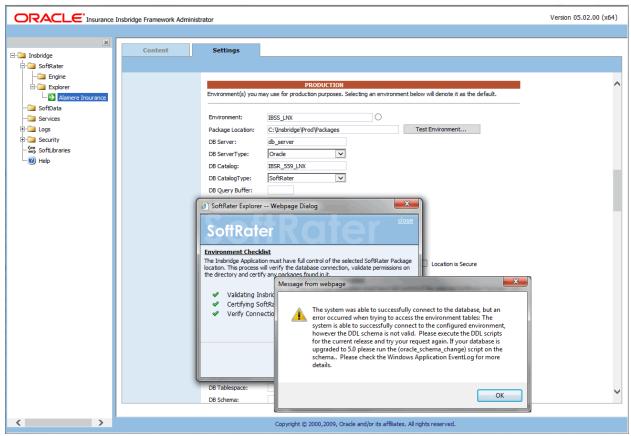


Figure 22 Checking for Database Updates

When the database is being validated, either a green checkmark is presented or an error message. The error message will indicate if an update must be run. For example, when validating a SQL Server environment:

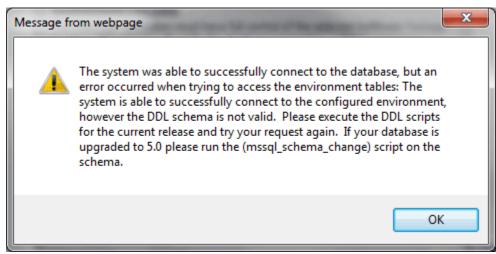


Figure 23 SQL Server Database Update Required Message

DDL scripts for updates also can be found on the server where Insbridge was installed in the ...\\Oracle\Insbridge\SoftRater\DDL folder.

ile Home Share Vi	ew					~
) 🐵 👻 🕇 퉬 « Local Dis	k (C:) 🕨 Pr	rogram Files 🕨 Oracle 🕨 Insbridge 🕨 Softl	Rater ▶ DDL ▶ Oracle	~ ¢	Search Oracle	ز
) Oracle	^	Name	Date modified	Туре	Size	
퉬 Insbridge 퉲 COM+		鷆 update	5/24/2016 10:32 AM	File folder		
ECOM+ Eramework		📄 oracle.create.dt.template.sql.txt	6/22/2015 8:03 PM	Text Document	1 KB	
Framework SDK		📄 oracle.create.packages.sql.txt	7/3/2015 11:30 AM	Text Document	1 KB	
SoftRater		📄 oracle.create.packages_lk.sql.txt	2/29/2016 5:10 AM	Text Document	1 KB	
DDL		📄 oracle.create.packages_rl.sql.txt	1/13/2011 1:51 PM	Text Document	1 KB	
DDL 002	=	📄 oracle.create.packages_si.sql.txt	1/13/2011 1:52 PM	Text Document	1 KB	
Oracle	_	📄 oracle.create.packages_so.sql.txt	7/17/2013 3:21 AM	Text Document	1 KB	
update						
SqlServer						
Webs						
lnsurance	~					

For example: C:\Program Files\Oracle\Insbridge\SoftRater\DDL\Oracle\Update

Figure 24 Location of Database Update Scripts

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.
- 5. Reboot the Insbridge server.

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.

Before proceeding, please have ready:

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

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.

When connecting to the Oracle RAC, customers can use SID. For example: Database Name: sid (Connection usingSID)

Or use the Service name. To connect to the service name, a slash has to be added in front of the database name. For example:

Database Name: /servicename (Connection using SERVICE)

To continue using SID, do not use the slash before the name.

Creating an Oracle Database

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.

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.
 - 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 Project/Product. An example of the format is in the comments of the script. It requires the Project/Product 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 Project/Product.
- 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 a Project/Product 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.

(-) (3 http://localhost.8081/IBSS/	/ P マ 整 C / 愛 SoftRater Server () ×	
<u>File Edit View Favorites Tools</u>		
	vridge SoftRater Server - JBoss	05.02.00
-		
UserName Password	<u>Global Config File [C:\Insbridge\Config \insbridge.net.softraterconfig.xml]</u> The Insbridge SoftRater Server cluster consists of multiple SoftRater Server instances running simultaneously and working 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 work work work of the SoftRater Configuration file found on your network. All nodes in a cluster should share the same file.	^
Submit	Options The options below are shared by each node that shares the softrater config file.	
	Click on the option in the list to edit.	
	helo 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 Instruidge 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. S system Environments © CONTROLLER -	
		\sim

Figure 25 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

A successful log in places you on the Home page.

(C) (S) (S) (S) (S) (S) (S) (S) (S) (S) (S	1BSS/ 🔎 🛪 🗟 🖒 🏉 SoftRater Server () 🛛 🗙	合 🖈 戀
<u>File Edit V</u> iew F <u>a</u> vorites <u>T</u> o	ols <u>H</u> elp	
	Insbridge SoftRater Server - JBoss	
	Insondge Softkater Server - J Boss	05.02.00
🖂 📁 IBSS	Global Config File [C:\Insbridge\Config\insbridge.net.softraterconfig.xml]	~
🗄 🚞 Config	The Insbridge SoftRater Server cluster consists of multiple SoftRater Server instances running simultaneously and working together to provide increased scalability and reliability. Insbridge SoftRater Server instances that constitute a cluster can run	
🕀 🚞 Nodes	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 cluster should share the same file.	
 Help 	comparador ne round on your necronol anna dadea anda anna dadea anda anna ar adnie nec	
	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 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 -	
		\sim
/		

Figure 26 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/	P → Z C SoftRater Server () ×	₼ ★ \$
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>F</u>	Help	
	ridge SoftRater Server - JBoss	05.02.00
CRACLE Insurance Instr BSS B Config B Nodes Ø Help	Indeg SoftRater Server - JBoss	05.02.00
	Click on the name of the environment to edit.	
	♦ CONTROLLER -	

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

Figure 27 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	<u>close</u>
	Subscr	iber	
	Please	enter the subscriber information below.	
	Id:	8659	
•	Name:	Alamere ×	
		Add	Cancel

Figure 28 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.

(+) (2) http://localhost:8081/IBSS		☆ ☆
<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	05.02.00
		~
□ □ IBSS ① □ Config	Global Config File [C:\Insbridge\Config\insbridge.net.softraterconfig.xm]] The Insbridge SoftRater Server duster 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 duster 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.	
	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 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.	

Figure 29 Creating an Environment

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
- ORACLE (BINARY_CI)
- 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.

l	🮒 Webpage Dialog	X	
	SoftRate	erserverr Server	e
	Options		
	Please enter/update your IBS		
	Subscriber:	Alamere	
	Environment Name:	PROD_B	
	Environment Type:	DSN V	
	Database Server:	localhost	
	Database Port:	1433	
	Query Block:		
	Database Name:	IBSR_Production_B	
8	Schema name:		
8	Database User Id:	sa	
	Database Password:	•••••	
	Provider Type	MS SQL Server 💙	
1	Database Type:	SoftRater V	
	Data Dir:	C:\Insbridge\Production_B	
	Default Environment:	True 🗸	
0			
	Delata	Task Convertion 1	
	Save Delete	Test Connection! Close	
L			

Figure 30 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
- ORACLE (BINARY_CI)
- 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			×
SoftRate	er Server r Ser	've	<u>close</u>
Options			
Please enter/update your IB			
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	ORACLE V		
Database Type:	SoftRater 🗸		
Data Dir:			
Default Environment:	False 🗸		
Save Delete	Tes	t Connection!	Close

Figure 31 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 Favorites Too		命 ★ 第
		05.02.00
BISS BI Config DI Nodes BI 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. Line option spectrum of the state of the st	,
	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. Click on the id of the SoftRater Node in the list to edit.	
	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, Citck on the name of the environment to edit. Stystem Environments	
	Click on the name of the connection to edit, or click here to add a new environment. St Alamere PROD A - jdbc:oracle:thin:@10.100.100:1521: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 32 Adding a Node

To create a node, server information is needed:

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

"

Figure 33 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

The required Oracle Client is located in the Oracle Data Access Components (ODAC) install. If an 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 only need to run the Oracle client once.

Running the Oracle Client

On the machine where the Insbridge system was installed, you will need to run the Oracle Data Access Components (ODAC) install to install the Oracle client. Oracle client allows IBFA to communicate with the Oracle database. A reboot is required after the installation.

The Oracle Data Access Components (ODAC) install for Oracle12c is in the Insbridge-Windows file: ODAC121012_x64.zip.

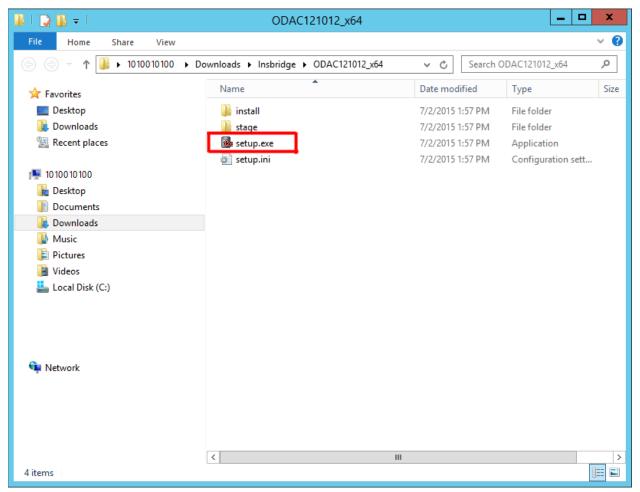


Figure 34 Locating the Oracle Client for 64-bit Installs

- 1. In the 05.02.00-insbridge-Insbridge folder, locate the Oracle Client folder.
- 2. Up zip the ODAC121012_x64.zip file in a location you can access.
- 3. Double click the setup.exe. The ODAC installation will begin.

Welcome		DATABASE 12C
The Oracle Universal Installer gu Oracle products.	des you through the installation and	configuration of your
Click "Installed Products" to see	all installed products.	
		Deinstall Products t Oracle Universal Installer

Figure 35 Running ODAC for the Oracle Client

4. Click Next.

Cracle Universal Installer: Select a Product to Install
ORACLE 12 ^C
Select a Product to Install
Oracle Data Access Components for Oracle Client 12.1.0.1.0
Installs Oracle Data Provider for .NET, Oracle Providers for ASP.NET, Oracle Provider for OLE DB, Oracle Services for Microsoft Transaction Server and Oracle Instant Client.
O Oracle Data Access Components for Oracle Server 12.1.0.1.0
Installs Oracle Database Extensions for .NET, Oracle Data Provider for .NET, Oracle Providers for ASP.NET, Oracle Provider for OLE DB and Oracle Services for Microsoft Transaction Server. These products can only be installed in an existing Oracle Home with Oracle Server installed. Oracle Database Extensions for .NET product install requires Oracle Database Extensions for .NET 12.1 to be already installed and configured in the Oracle Home.
Help Installed Products Back Next Install Cancel

Figure 36 Selecting the ODAC

- 5. Select **Oracle Data Access Components for Oracle Client** as the Installation Type. For Oracle 11, select Runtime.
- 6. Click **NEXT**.

	Oracle Universal Installer: Specify Home Details
And	ORACLE 12C
Insta	Il Location
Oracle B	a base location for storing all Oracle software and configuration-related files. This location is the ase directory. Create one Oracle Base for each operating system user. By default,software and ation files are installed by version and database name in the Oracle Base directory
<u>O</u> racle B	ase: C:\app\server Browse)
Specify Oracle either t	vare Location y a base location for storing Oracle software files separate from database configuration files in the Base directory. This software directory is the Oracle Home directory. Change the defaults below to specify an alternative location, or to select an existing Oracle Home
Na <u>m</u> e:	OraClient12Home1
Path:	C:\app\server\product\12.1.0\client_1
Help	Installed Products Back Next Install Cancel

Figure 37 Selecting the ODAC Installation Directory

7. You can leave the defaults or select the base location.

NOTE: For Oracle 11, the Summary – Inside Oracle Providers for .NET, the Oracle Client, you must use a LOCAL DRIVE, i.e. C:\app\oracle-insbridge.

8. Click **NEXT**.

	Oracle Universal Installer: Available Product	t Components 📃 🗖 🗙
Available Product Components		
Oracle Data Access Components for Oracle Client The following are components that you can install as part of Oracle Data Access Components for Oracle Client. Which of these components do you want to install?		
ſ	Components	Install Status
ľ	☑ Oracle Data Access Components for Oracle Client 12.1.0.1.0	New Install
	Optional Dependencies	~
	Oracle Data Provider for .NET 12.1.0.1.0	New Install
	Oracle Providers for ASP.NET 12.1.0.1.0	New Install
	Oracle Provider for OLE DB 12.1.0.1.0	New Install
	Oracle Services For Microsoft Transaction Server 12.1.0.1.0	New Install
	Oracle Data Access Components Samples 12.1.0.1.0	Not Installed
L	🖬 Oracla Data Accase Components Documentation for Visual Studi	New Install
	Expand All) Collapse <u>A</u> ll) Select	All) Deselect All)
Show all components, including required dependencies. Help Installed Products Back Next Installed Products		

Figure 38 Installing the Oracle Client

9. Click Next. No changes are needed.

Cracle Universal	Installer: Database Connection Configuration			
	DATABASE 12°			
Database Connection Configuration				
In order to be able to connect to an Ora \app\product\12.1.0\client_1\Network\4	acle Database, a connection alias should be created within C: Admin\TNSNAMES.ORA.			
This dialog will assist you in creating t	this TNSNAMES.ORA file.			
	on information in the fields below. If any field is left blank, the TNSNAMES. bases use port 1521. The Service Name for Oracle Database Express			
Connection Alias (eg. MyDB)	DB_Connection			
Database Host Name	ServerDB1			
Port Number	1521			
Database Service Name (eg. ORCL)	ORCL			
Help Installed Produc	cts Back Next Install Cancel			

Figure 39 Entering Database Connection Information

10. Enter in Database Connection Information. If you do not have this, you can leave blank.

NOTE: If you are upgrading an existing Oracle Client, this screen is not presented.

11. Click Next.

8	Oracle Universal Installer: Oracle Providers for ASP.NET					
Oracle Providers for ASP.NET						
	Run the SQL scripts located in C:\app\product\12.1.0\client_1\ASP.NET\SQL directory after a new installation or an upgrade of Oracle Providers for ASP.NET.					
Help	Installed Products Back Next Install Cancel					

Figure 40 Information Screen

12. This is an information screen. Click Next.

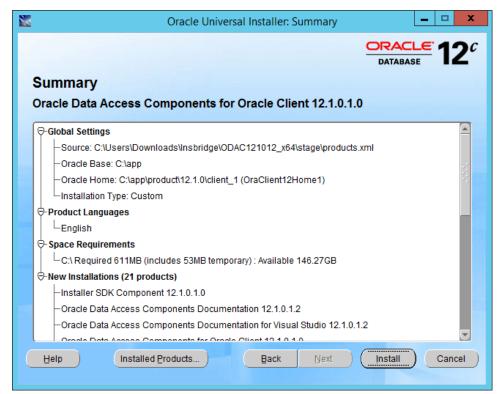


Figure 41 Summary of Items to be installed

13. Review the items to be installed and click Install. The installation progress is displayed.

×	Oracle Universal Installer: End of Installation
	End of Installation
	The installation of Oracle Data Access Components for Oracle Client was successful.
	Please remember
	Run the SQL scripts located in C:\app\product\12.1.0\client_1\ASP.NET\SQL directory after a new installation or an upgrade of Oracle Providers for ASP.NET. Database Connection Configuration
	A TNSNAMES.ORA file containing your connection alias has been created in C:\app\product\12.1.0\client_1\Network\Admin
	Help Installed Products Back Next Install Exit

Figure 42 Successful Installation

- 14. The End of Installation will display a success or fail message.
- 15. Click Exit to close the install.
- 16. Reboot the machine. If you do not reboot, .NET errors may be presented.

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 **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.

000	The Party of the P		and the second se	
C () (http://10.100.10.100/IBFA				ۍ - ۵
	ridge Framework Administrator			Version 05.02.00 (x64)
X	Cr Cr Pa D	Settings IEDOULTION Informent() you may use for production purposes. Se Invironment: Prod adiage Location: C: Umbridge Packages (Prod Server): 10, 10, 00, 00 Server': 10, 10, 00, 00	Recting an environment below will denote it as the default.	
iii) iido	00 00 00 00 00 00 00 00 00 00 00 00 00	Containing: and C	Location is a Cluster Location is Secure	
	S	eve Copyright @ 2000, 2007, Oracle	and/or its affiliates. All rights reserved.	v

Figure 43 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.

Checking a SoftRater Database for Updates

All SoftRater databases can be checked for updates in IBFA.

- 1. SoftRater->Explorer->Subscriber->Settings->Environments.
- 2. Select the SoftRater environment with the database where you want to check for updates.
- 3. Click Test Environment.

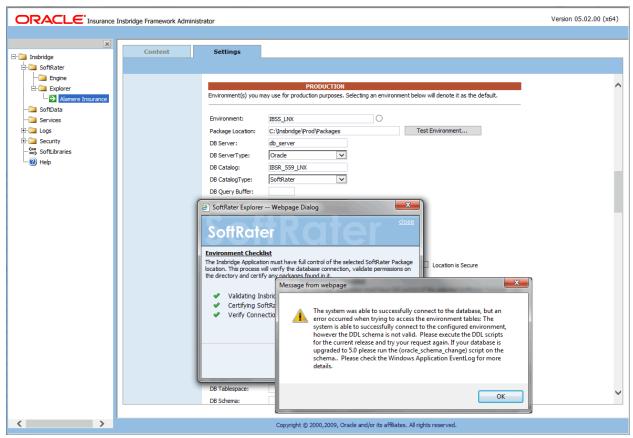


Figure 44 Checking for Database Updates

When the database is being validated, either a green checkmark is presented or an error message. The error message will indicate if an update must be run. For example, when validating an Oracle environment:

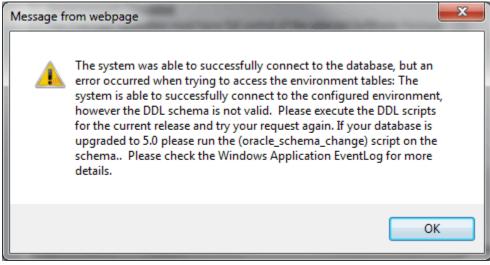


Figure 45 Oracle Database Update Required Message

DDL scripts for updates also can be found on the server where Insbridge was installed in the ...\\Oracle\Insbridge\SoftRater\DDL folder.

i I 🕞 🚹 🖛 I		Oracle	3			_ D ×
File Home Share View	N					~ (
🖻 💿 👻 🕇 <u></u> « Local Disk	(C:) 🕨 F	Program Files ♦ Oracle ♦ Insbridge ♦ SoftRat	ter ▶ DDL ▶ Oracle	~ C	Search Oracle	م
퉬 Oracle	^	Name	Date modified	Туре	Size	
🎉 Insbridge		퉬 update	5/24/2016 10:32 AM	File folder		
DOM+		oracle.create.dt.template.sql.txt	6/22/2015 8:03 PM	Text Document	1 KB	
Framework		📄 oracle.create.packages.sql.txt	7/3/2015 11:30 AM	Text Document	1 KB	
SDK		📄 oracle.create.packages_lk.sql.txt	2/29/2016 5:10 AM	Text Document	1 KB	
SoftRater		📋 oracle.create.packages_rl.sql.txt	1/13/2011 1:51 PM	Text Document	1 KB	
DDL	=	📄 oracle.create.packages_si.sql.txt	1/13/2011 1:52 PM	Text Document	1 KB	
DB2		📄 oracle.create.packages_so.sql.txt	7/17/2013 3:21 AM	Text Document	1 KB	
📕 Oracle						
Upuate SqlServer						
Webs						
Insurance	~					
7 items 1 item selected						8== 6

For example: C:\Program Files\Oracle\Insbridge\SoftRater\DDL\Oracle\Update

Figure 46 Location of Database Update Scripts

STEP 5: REBOOTING THE INSBRIDGE SERVER

To assure that the Oracle client is available, reboot the server where Insbridge is installed.

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. Adding DB2.jar file.
- 3. Create a JBoss entry in IBSS.
- 4. Run the DB2 Client on the machine where the Insbridge system was installed.
- 5. 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 9.7 with fix pack 8.

You also can perform a search for "IBM Data Server Runtime Client, Version 9.7 with fix pack 8"

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

Required DB2.Jar File

A db2jcc.jar file is required to be added as a library after the IBSS deployment. Download this jar from the location <u>http://www.java2s.com/Code/Jar/d/Downloaddb2jccjar.htm</u>. Save the db2jcc.jar file to a location on your machine *<db2_location>*.

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 Project/Products that your company uses. You will need the ID number for each Project/Product.
- 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.

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.
 - 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 Project/Product. An example of the format is in the comments of the script. It requires the Project/Product 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 Project/Product.
- 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.sgl.txt db2.create.packages lk.sql.txt db2.create.packages rl.sgl.txt db2.create.packages_si.sql.txt db2.create.packages_so.sql.txt

This information may be needed if you are attempting to add a Project/Product and receive missing table errors. Creating tables in DB2 should be performed by a gualified 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"/>
               <module name="javax.transaction.api"/>
       </dependencies>
```

- 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 xmIns="urn:jboss:domain:ee:1.1">

<subsystem xmlns="urn:jboss:domain:ee:1.1">
<global-modules>
<module name="com.ibm.db2.jcc" slot="main"/>
</global-modules>
<spec-descriptor-property-replacement>false</spec-descriptor-property-replacement>
<jboss-descriptor-property-replacement>true</jboss-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.

Http://localhost:8081/IBSS/	P → 🗟 C 🥖 SoftRater Server () 🛛 🗡	🏠 🔝
e <u>E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>I</u>	Help	
	New Colored IDeep	1000000
	lage Sortkater Server - JBoss	05.02.0
erName	Global Config File [C:\Insbridge\Config\insbridge.net.softraterconfig.xml]	
sword	The Insbridge SoftRater Server duster consists of multiple SoftRater Server instances running simultaneously and working	
sword	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	
1. 21	Configuration file found on your network. All nodes in a cluster should share the same file.	
ubmit	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	
	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.	
	192 System Environments	

Figure 47 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

A successful log in places you on the Home page.

+ttp://localhost:8081	/IBSS/ $\mathcal{P} \neq \mathbf{Z} \mathcal{O}$ SoftRater Server () X	£ ★ \$
<u>File Edit View Favorites To</u>	ols <u>H</u> elp	
	e Insbridge SoftRater Server - JBoss	05.02.00
ESS Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config Config C	School Config File [C:\Insbridge \Config \insbridge.net.softraterconfig.xml] The Insbridge 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 Options below are shared by each node that shares the softrater config file. Cick on the option in the list to edit. location - help server - Add Hode Node(s) are insbridge SoftRater Servers that you would like the web admin to manage. Cick on the of the SoftRater Servers that you would like the web admin to manage. Med Hode Node(s) are insbridge SoftRater Servers that you would like the web admin to manage. Cick on the id of the SoftRater Ided in the list to edit. • No endpoints found. Med Subscriber Med Subscriber The subscriber identifier is an unique number that you would like to represent your company. Please consult with an inside subscriber if you have any questors. Cick on the id of the subscriber in the list to edit.	05.02.00
	No Subscribers found.	
	Add Environment Create or edit an environment. Click on the name of the environment to edit. Stystem Environments	
		~

Figure 48 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.

A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A	タッ 置 C 🧭 SoftRater Server () ×	
		05.02.00
Config Config Nodes Help	ge SoftRater Server - JBoss Solbal Config File [C: Unsbridge \Config \insbridge.net.softraterconfig.xml]. The Insbridge 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 duringe SoftRater Server instances that constitute a duster can run on the same machine, or be located on different machines. This duringe SoftRater Server instances that constitute a duster can run on the same machine, or be located on different machines. This duringe softRater Server instances that constitute a duster can run on the same machine, or be located on different machines. This duringe softRater Server instances that constitute a duster can run on the same machine, or be located on different machines. This duringe softRater Servers that soluter should share the same file. Outions The options below are shared by each node that shares the softrater config file. [location - PRODUCTION help server - 10.100.10.100 help server - 10.100.10.100 Image: SoftRater Servers that you would like the web admin to manage. [cick on the id of the SoftRater Hode in the list to edit. Ivendpoints found. Add Subscriber The abscriber identifier is an unique number that you would like to represent your company. Please consult with an Individue support representative if you have any questions. Cick on the id of the subscriber in the list to edit. Ivendpoints found. Add Environment Cick on the id of the subscriber in the list to edit. No subscribers found. Cick on the id of the subscriber in the list to edit. No subscribers found. Cick on the id of the environment. Cick on the id of the environment. Cick on the name of the environme	^

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

Figure 49 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
1	Sc	oftRater Serve	r	<u>close</u>
	<u>Subscr</u>	riber		
	Please	enter the subscriber information below.		
	Id:	8659		
1	Name:	Alamere ×		
			Add	Cancel

Figure 50 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.

C () (http://localhost:8081/IBSS	🖉 🖉 🖉 🖉 SoftRater Server () 🛛 🗙	☆ ☆
<u> </u>	Help	
	bridge SoftRater Server - JBoss	05.02.00
		~
	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	
 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 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.	
	∲ 8659 - Alamere	
	Add Environment Create or edit an environment.	
	Click on the name of the environment to edit.	
	CONTROLLER -	
	Click on the name of the connection to edit, or <u>click here</u> to add a new environment.	
	Avantere No Connections found.	
		~

Figure 51 Creating an Environment

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
- ORACLE(BINARY_CI)
- 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	
Options		
Please enter/update your I		
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 🗸	
1		
Save Delete	Test Connection	n! Close

Figure 52 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
- ORACLE (BINARY_CI)
- 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			x
	SoftRate	er Server r Ser	ver	<u>close</u>
	Options Please enter/update your IB	SS Option information		
	Subscriber:	Alamere V		
	Subscriber.			
	Environment Name:	BATCH		
	Environment Type:	JNDI 🗸		
	Name:	jdbc/batchDB]	
	Context Factory:	weblogic.jndi.WLInitial ContextFactory]	
	RMI:	t3		
	Url Host:	localhost		
8	Url Port:	7001		
8	Provider Type	ORACLE V		
8	Database Type:	SoftRater 💙		
	Data Dir:			
0	Default Environment:	False 🗸		
0				
ł	,	_		
	Save Delete	Tes	t Connection! Cl	ose

Figure 53 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.

+ ttp://localhost:8081/IBS		☆ ☆
<u>File Edit V</u> iew F <u>a</u> vorites <u>T</u> ools	Feb	
	bridge SoftRater Server - JBoss	05.02.00
🖂 🛅 IBSS	Global Config File [C:\Insbridge\Config\insbridge.net.softraterconfig.xml] The Insbridge SoftRater Server cluster consists of multiple SoftRater Server instances running simultaneously and working	^
E ⊇ Config E ⊇ 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 Configuration file found on your network. All nodes in a cluster should share the same file.	
🜒 Help	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.	
	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:ord	
	Click on the name of the connection to edit, or <u>click here</u> to add a new environment. Amere PROD A - jdbc:oracle:thin:@10.100.10.100:1521:PROD_A PROD B - jdbc:db2://10.100.10.100:5000/PROD_B	
	♥ <u>FROD_B</u> - jabe:ab2://10.100.100.10050000/FROD_B ♥ <u>PROD_C</u> - jdbc:sqlserver://10.100.10.100:1433;ProgramName=jSoftRater;DatabaseName=PROD_C	~

Figure 54 Adding a Node

To create a node, server information is needed:

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

1	🗿 Webpage Dialog	×
	SoftRate	r Server
	SoftRater Server Node Inst	tance
	-	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 55 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.

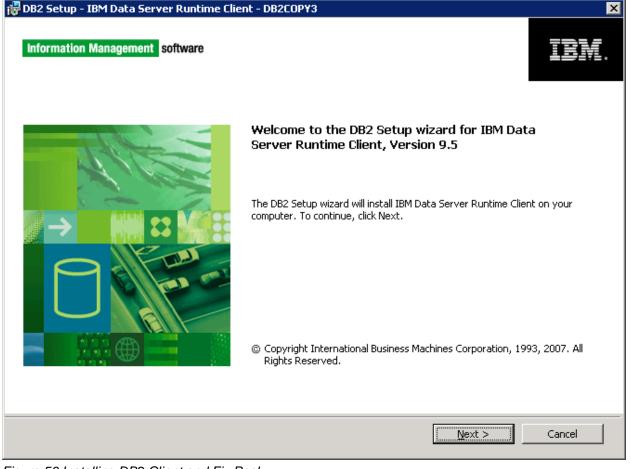


Figure 56 Installing DB2 Client and Fix Pack

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 **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.

-	States and	-			The second second	
C 🛞 🥥 http://10.100.10.100/18F/	V					D-0
	bridge Framework Administra	tor				Version 05.02.00 (x64)
SofiRate SofiRate Cogne Colorer	Content	Settings Environment(s) you t	PRODUCTION may use for production purposes. So	electing an environn	ent below will denote it as the default.	•
- SoftData - 词 Services		Environment:	Prod	0		
(+) Car Logs		Package Location:	C: Unsbridge 'Packages 'Prod		Test Environment	
th ⊆ Loge b ⊆ Searthy -S solutiones W Heb		Padage Locaton: DU Server'; DS Server';pee: DS Catalog: DB Catalog: DB Catalog: DB Catalog: DB Tablespace: DB Tablespace: DB Schema: DU Password: Engne Type: Engne Locaton: Engine BirvDef:	C: Unbridge (Padages (Prod 10.100.10.100 [002] SR_610 SR_610 SR_610 SR_610 db2admin 	Location to a C	Test Environment	
		Save	Copyright © 2000,2009, Orade	and/or its affiliates	. All rights reserved.	¥

Figure 57 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.

Checking a SoftRater Database for Updates

All SoftRater databases can be checked for updates in IBFA.

- 1. SoftRater->Explorer->Subscriber->Settings->Environments.
- 2. Select the SoftRater environment with the database where you want to check for updates.

3. Click Test Environment.

	Insbridge Framework Administrator	Version 05.02.00 (x64)
Insbridge	Content Settings	
Insbridge SoftRater SoftRater SoftRater SoftRater SoftRater SoftRater SoftRate SoftRa	PRODUCTION Environment(s) you may use for production purposes. Selecting an environment below will denote it as the default. Environment(s) you may use for production purposes. Selecting an environment below will denote it as the default. Environment(s) Padage Location: C: Unsbridge Prod/Packages Test Environment DB Server: db_server DB ServerType: Orade DB Catalog: IBSR_559_LNX DB Catalog: IBSR_559_LNX DB Catalog: IBSR_559_LNX DB Catalog: ISSR_8ter DB Query Buffer: DB Query Buffer: SoftRater Explorer -> Webpage Dialog Catalog is process will verify the database connection, validate permissions on the directory and careffy any nackase found in it. Message from webpage Image: Catalog is process will verify the database connection, validate permissions on the directory and careffy any nackase found in it. Image: Catifying SoftR Image: Verify Connection Werify Connection Image: Catego is into valid Please exercut the DDL scripts or the origined environment, however the DDL scripts or the current release and try your request again. If your database is upgraded to 5.0 please run the (praced, chema is not valid). Chease rescut the DDL scripts or the upgraded to 5.0 please run the (praced, chema is not valid). Please exercut the DDL	
	DB Tablespace: DB Schema: OK	~
< >>	Copyright © 2000,2009, Oracle and/or its affiliates. All rights reserved.	L L L L L L L L L L L L L L L L L L L

Figure 58 Checking for Database Updates

When the database is being validated, either a green checkmark is presented or an error message. The error message will indicate if an update must be run. For example, when validating a DB2 environment:

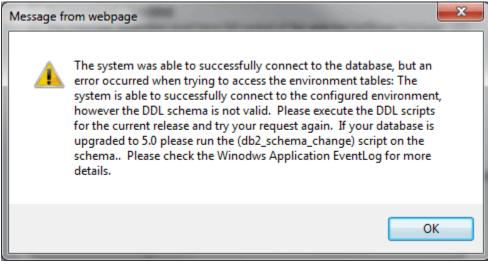


Figure 59 DB2 Database Update Required Message

DDL scripts for updates also can be found on the server where Insbridge was installed in the ...\\Oracle\Insbridge\SoftRater\DDL folder.

🛃 📗 =		Oracle	e			_ D ×
File Home Share Vi	ew					\checkmark
-) 💿 🔻 🕇 <u>س</u> Kocal Dis	k (C:) 🕨 P	Program Files ♦ Oracle ♦ Insbridge ♦ SoftRa	ter ▶ DDL ▶ Oracle	~ ¢	Search Oracle	م ر
鷆 Oracle	^	Name	Date modified	Туре	Size	
🎉 Insbridge		🎉 update	5/24/2016 10:32 AM	File folder		
COM+		📄 oracle.create.dt.template.sql.txt	6/22/2015 8:03 PM	Text Document	1 KB	
J Framework		📄 oracle.create.packages.sql.txt	7/3/2015 11:30 AM	Text Document	1 KB	
SDK		📄 oracle.create.packages_lk.sql.txt	2/29/2016 5:10 AM	Text Document	1 KB	
SoftRater		📄 oracle.create.packages_rl.sql.txt	1/13/2011 1:51 PM	Text Document	1 KB	
DDL	=	📄 oracle.create.packages_si.sql.txt	1/13/2011 1:52 PM	Text Document	1 KB	
🍌 DB2 🍌 Oracle	_	📄 oracle.create.packages_so.sql.txt	7/17/2013 3:21 AM	Text Document	1 KB	
퉬 update						
퉬 SqlServer						
퉬 Webs						
骗 Insurance	~					

For example: C:\Program Files\Oracle\Insbridge\SoftRater\DDL\Oracle\Update

Figure 60 Location of Database Update Scripts

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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