

Oracle Insurance

Insbridge Enterprise Rating SoftRater for WebSphere Installation Guide

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Oracle Insurance Insbridge Enterprise Rating SoftRater for WebSphere Installation Guide

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PREFACE

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

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 WebSphere.

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 05.06.00.

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

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.
- **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.
- The Oracle Insurance Insbridge Enterprise Rating SoftRater Server Guide.
- You can view these guides in-line at this address:

http://www.oracle.com/technetwork/documentation/insurance-097481.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	P01-706-01			
2 nd Edition	P01-706-02	V 3.5		
3 rd Edition	P01-706-03	V 3.6	03/14/2006	Update 3.6
4 th Edition	P01-706-04	V 3.6	08/09/2006	Update logo
5 th Edition	P01-706-05	V 3.7	10/05/2006	Update to 3.7
6 th Edition	P01-706-06	V 3.8	7/19/2007	Update to 3.8
7 th Edition	P01-706-07	V 3.8.3	10/19/2007	Update to 3.8.3
8 th Edition	P01-706-08	V 3.8.5	November 2007	Update to 3.8.5
9 th Edition	P01-706-09	V 3.8.7	January 2008	Update to 3.8.7
10 th Edition	P01-706-10	V 3.8.8	March 2008	Update to 3.8.8
11 th Edition	P01-706-11	V 3.9	May 2008	Update to 3.9
12 th Edition	P01-706-12	V 3.10.0	September 2008	Update to 3.10
13 th Edition	P01-706-13	V 3.11	December 2008	Update to 3.11
14 th Edition	P01-706-14	V 3.12	July 2009	Update to 3.12
15 th Edition	P01-706-15	V 3.13	November 2009	Update to 3.13
16 th Edition	P01-706-16	R 4.0	April 2010	Update to 4.0
17 th Edition	P01-706-17	R 4.0.1	August 2010	Update Release
18 th Edition	P01-706-18	R 4.1	December 2010	Update Release
19 th Edition	P01-706-19	R 4.5	May 2011	Update Release
20 th Edition	P01-706-20	R 4.5.1	September 2011	Update Release
21 st Edition	P01-706-21	R 4.6	May 2012	Update Release
22 nd Edition	P01-706-22	R 4.6.1	November 2012	Update Release
23 rd Edition	P01-706-23	R 4.7	September 2013	Update Release
24 th Edition	P01-706-24	R 4.7.1	November 2013	Update Release
25 th Edition	P01-706-25	R 4.8	August 2014	Update Release
26 th Edition	P01-706-26	R 4.9	December 2014	Update Release
27 th Edition	P01-706-27	R 5.0	June 2015	Update Release
28 th Edition	P01-706-28	R 5.0.1	August 2015	Update Release
29 th Edition	P01-706-29	R 5.1	December 2015	Update Release
30 th Edition	P01-706-30	R 5.2	July 2016	Update Release
31 st Edition	P01-706-31	R 5.4	January 2017	Update Release
32 nd Edition	P01-706-32	R 5.5	September 2017	Update Release
33 rd Edition	P01-706-33	R 5.6	August 2018	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 WebSphere installation
- Access to the server where WebSphere 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, you need: DB Catalog name, port number, DB Schema name
- If utilizing DB2, you need: 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 WebSphere.

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
 - 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
 - Latin1_General_BIN
 - DATABASE_BACKUP_IBSR_TEMPLATE_CASE_SENSITIVE.bak
 - SQL_Latin1_General_CP1_CI_AS
 - DATABASE_BACKUP_IBSR_TEMPLATE.bak
 - 2016
 - 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
 - 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 05.06.00-Insbridge-jboss folder contents:

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

The 05.06.00-Insbridge-was folder contents:

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

The 05.06.00-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.

Chapter 2

SETTING UP WEBSPHERE

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

ile Home Share View					~
🕘 👻 🕈 📕 Ci\Program Fil	es\Oracle\Insbridge\SoftRater\DDL		~	C Search DDL	\$
🕌 Oracle	^ Name	Date modified	Туре	Size	
Insbridge	👪 DB2	5/24/2016 10:32 AM	File folder		
COM+ Framework	🕕 Oracle	5/24/2016 10:32 AM	File folder		
	🏭 SqlServer	5/24/2016 10:32 AM	File folder		
SoftRater					
DDL					
DB2					
鷆 Oracle					
SqlServer					
🌗 Webs					
Insurance	~				

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

- Databases

- SQL Server
 - 2012
 - SoftRater: IBSR
 - Latin1_General_BIN
 - DATABASE_BACKUP_IBSR_TEMPLATE_CASE_SENSITIVE.bak
 - SQL_Latin1_General_CP1_CI_AS
 - DATABASE_BACKUP_IBSR_TEMPLATE.bak
 - 2016
 - SoftRater: IBSR
 - 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 – 2012, and 2016 SP1

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 11.1.

Version – 11.1

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 WEBSPHERE INSTALLATION

Installing SoftRater for WebSphere will require that you:

- 1. Set up WebSphere and deploy the SoftRater for WebSphere .EAR file and config file. There are five steps in setting up WebSphere and deploying SoftRater.
- 2. Implement the database and enter the configuration information in IBSS and IBFA.
 - a. Oracle Database
 - b. SQL Server Database
 - c. IBM DB2

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

Setting up and Deploying in WebSphere

Step 1: Delete the wscache file (optional)
Step 2: Placing the Configuration Files
Step 3: Create INSBRIDGE_APP_DIR in Name Space Bindings
Step 4: Installing the EAR File
Step 5: Test Connection

Implementing a SQL Server Database

Step 1: Restoring Insbridge Databases in SQL ServerStep 2: Setting up a WebSphere 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 WebSphere Environment in IBSS
- Step 3: Installation of Oracle Client
- Step 4: Entering your IBSS Instance in IBFA
- **Step 5:** Reboot the machine where Insbridge is installed

Implementing an IBM DB2 Database

- Step 1: Creating a DB2 Database
- **Step 2:** Creating a Shared Library in WebSphere.
- Step 3: Setting up a WebSphere Environment in IBSS
- Step 4: Installation of DB2 Client
- Step 5: Entering your IBSS Instance in IBFA

SOFTRATER FOR WEBSPHERE INSTALLATION

WebSphere should be up and running prior to deploying the .EAR file. There are five steps that should be performed in WebSphere prior to implementing the database. All steps are required.

- **Step 1:** Delete the wscache file (optional)
- Step 2: The Configuration Files must be placed in a static location
- Step 3: Create INSBRIDGE_APP_DIR in Name Space Bindings
- Step 4: Installing the EAR File
- Step 5: Test Connection

Java Version

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

STEP 1: DELETE THE WSCACHE FILE (OPTIONAL)

An optional step is to delete the wscache folder under the server profile before deploying the .EAR file. This may help to prevent compatibility errors with the Oracle client.

The wscache is located in the temp directory under the server profile. For example: /opt/IBM/WebSphere/AppServer/profiles/AppSrv01/temp/wscache.

STEP 2: PLACING THE CONFIGURATION FILES

We suggest creating an Insbridgeconfig 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 WebSphere installation. Take note of the location and make sure you have created this folder prior to deploying the .EAR file.

- 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 WebSphere zip file should be downloaded to the WebSphere server prior to configuration. Unzip the file. The file contains an XML file and an .EAR file.

- 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: The location of the .EAR file and configuration need to be specified in the Name Space Bindings. Once these files are place, do not move.

💽 🔝 =	Config			×
File Home Share View				~
€ 💿 ▾ ↑ 퉬 ኑ 1010010100	► Local Disk (C:) ► Insbridge ► Config ►	✓ 🖒 Search A	lamere	, p
🛛 📑 Videos	^ Name	Date modified	Туре	Siz
⊿ 📥 Local Disk (C:)	linstance	5/13/2015 9:04 AM	File folder	
34d8c8194604fa1146a1320e32	IBSS.ear	6/29/2015 5:25 PM	EAR File	
▷ 🎍 etc ▷ 퉲 inetpub	insbridge.net.softraterconfig.xml	6/10/2015 2:39 PM	XML Document	
4 🎍 Insbridge				
⊿ 🔐 Instituge ⊿ 🕌 Config				
Instance				
4 🔟 Oracle				
🛛 🐌 agent12c				
4 鷆 Middleware				
4 퉬 Oracle_Home	=			
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user_projects Iser_projects Iser_projects	× <			
2 items				

Figure 1 Location of Config and Instance Folders

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

STEP 3: CREATE INSBRIDGE_APP_DIR IN NAME SPACE BINDINGS

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

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

Environment → Naming → Name Space Bindings

2. Change the scope to the **Server** level and click **Apply**.

WebSphere, software			Welcome WSAdmin	Help Logout
View: All tasks	Cell=server10100Node01Cell, Profile	=AppSrv01		Close pag
Welcome	Name Space Bindings		2 -	Help
Guided Activities Servers Applications Services Resources	or CORBA leaf node object, or Scope: Cell=server10100 Scope specifies the	ame binding of a constant string value, an an object that can be looked up by using J Node01Cell, Node=server10100Node01 level at which the resource definition is visi scope is and how it vorks, <u>see the scope</u>	, Server= server1 ible. For detailed	Field help For field help information, select a field label or list marker when the help cursor is displayed. Page help More information about this
Security			seconds melp.	page
= Environment	Node=server1010	0Node01, Server=server1 🔽		
Virtual hosts Update global Web server plug-in configuration WebSphere variables Shand libraries Shapaplication nouters Replication domains Naming Naming CoRRA naming service users CORRA naming service groups OSGI bundle repositories	Preferences New Delete Select Name None Total 0	Scope 🗘	Binding type 🗘	
System administration				
+ Users and Groups				
Monitoring and Tuning				
+ Troubleshooting				
± Service integration				
+ UDDI				

Figure 2 Changing Scope to Server

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

	Name Space Binding	new name space binding.	2	
-	Step 1: Specify binding type Step 2: Specify basic properties Step 3: Summary	Specify binding type Scope cells:server10100Node01Cell:nodes:server10100Node01:server Binding type String EJB CORBA Indirect		
[Next Cancel			

Figure 3 Creating a New Name Space

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

	tep 1: Specify inding type	Specify basic properties
	tep 2: Specify asic properties	Scope cells:server10100Node01Cell:nodes:server10100Node01:servers:server1
s	tep 3: Summary	Binding type String
		* Binding identifier INSBRIDGE_APP_DIR
		* Name in name space relative to lookup name prefix 'cell/nodes/server10100Node01/servers/server1/' INSBRIDGE_APP_DIR
		* String value C:\Insbridge\Config

Figure 4 Create Name Space Binding

- Create a Name Space Binding and Binding Identifier at the server level called INSBRIDGE_APP_DIR. The actual string value is the directory path location where the insbridge config file was placed for example, C:\Insbridge\config.
- 6. Then select Next

Step 1: Specify binding type	Summary	
Step 2: Specify properties	Summary of actions: New Name Space Binding Scope : cells/server10100Node01Cell/nod	
Step 3: Summa	Binding type : String Binding identifier : INSBRIDGE_APP_DIR. Name in name space relative to lookup na String value : C:\Insbridge\Config	

Figure 5 Finish Creating Name Space Binding

- 7. Click Finish.
- 8. Return to the Name Space Bindings page. A second string must be created, INSBRIDGE_INSTANCE_APP_DIR.
- 9. Change the scope to the **Server** level and click **Apply**.
- 10. Once you have changed to the server level, click New.

- 11. Select String and then click Next.
- 12. Create a Name Space Binding and Binding Identifier at the server level called INSBRIDGE_INSTANCE_APP_DIR. The actual string value is the directory path location where the Instance file was placed for example, C:\Insbridge\config\instance.
- 13. Then select Next
- 14. Click Finish.
- 15. After creating both the Name Space Bindings, Save to the master configuration.

	Cell:server10100Node01Cell, Profile=AppSrvI	01		Close pa
View: All tasks				
Welcome	Name Space Bindings		2	– Help
Builded Activities B Servers B Applications B Resources B Resources B Security E Porvionent	 <u>Save</u> tirectly t <u>Review</u> change 	een made to your local configuration. You can: o the master configuration. is before saving or discarding. need to be restarted for these changes to take eff	ect.	Field help For field help information, societ a field belo ar list marker when the help curs is displayed. Page help More information about thi page Command Assistance View administrative scriptic
Virtual hosts Update global Web server plug-in configuration WebSphere variables Shared libraries Replication routers Replication domains Naming Naming CORBA naming service users CORBA naming service groups GOSGi bundle repositories	or CORBA leaf node object, or an object Scope: Cell=server10100Node01 Scope specifies the level at t	Cell, Node=server10100Node01, Server=server which the resource definition is visible. For detailed s and how it works, <u>see the scope settings help</u> .		command for last action
± System administration	D T # 4			
• Users and Groups	Select Name 🗇	Scope 🗘	Binding type 🗘	
± Monitoring and Tuning	You can administer the following reso			
± Troubleshooting	INSBRIDGE APP DIR	Node=server10100Node01,Server=server1	String	
E Service integration	INSBRIDGE INSTANCE APP D	IR Node=server10100Node01,Server=server1	String	

Figure 6 Saving to the Master File

If the application is being deployed to a cluster, the same procedure needs to be followed to create Name Space Binding for all the servers in the Cluster separately.

16. Once these changes are saved, restart all the servers in order for these to changes to take effect.

Optional – Adjusting Timeout Settings

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

For example, if connection to the engine (call to EJB) from clients is idle for more than configured then it throws an Inactivity timeout: (SocketTimeoutException - Async time out) error.

EJB Transaction timeout:

This time out issue occurs when an EJB transaction takes more than configured time.

This issue may be solved by the following setting on the admin console. Use for the port needed.

- 1. Navigate to Application Server>Ports>WC_Defaulthost (this is for port 9080). Click View Associated Transports.
- 2. Click WCInboundDefault.
- 3. Click TCP inbound Channel (TCP 2)

ation servers	2
🗆 Messages	
Transport Channel TCP_2 is shared between two or	more transport chains. Changes to
TCP_2 will affect multiple network protocol stacks.	
plication servers > server1 > Ports > Transport Chain > WCInbo	undDefault > TCD inhound share-1 (TCD_2)
plication servers > server1 > ports > <u>Transport Chain</u> > <u>WCInbo</u> e this page to configure a TCP inbound channel for inbound network traf	
onfiguration	
General Properties	Additional Properties
* Transport channel name	
TCP_2	 <u>Custom properties</u>
Port	Related Items
WC_defaulthost (*:9080)	= <u>Ports</u>
Thread pool	- <u>Thread pools</u>
WebContainer 🔽	
* Maximum open connections 20000	
* Inactivity timeout 600 seconds	
Address exclude list	
×	
Address include list	
*	
Hostname exclude list	
*	
Hostname include list	
×	
Apply OK Reset Cancel	

Figure 7 Setting Inactivity Timeout

4. Click Apply and Save your entry.

Update Total Transaction Setting

- 1. Navigate to Application Servers>Server.
- 2. Select Container Services from Container Settings.
- 3. Select Transaction Service.

ntime Configuration	
General Properties	Container Settings
Name	 Session management
server1	SIP Container Settings
Node name	Web Container Settings
server10100Node01	Portlet Container Settings
Run in development mode	EJB Container Settings
✓ Parallel start	Container Services
Start components as needed	 Application profiling service
Access to internal server classes	 Transaction service
Allow	 <u>Dynamic cache service</u> Compensation service
	 <u>compensation service</u> Internationalization service
Server-specific Application Settings	Default Java Persistence API
Classloader policy Multiple	settings
	 Object pool service
Class loading mode Classes loaded with parent class loader first	ORB service Startup beans service
Glasses loaded with parent class loader first	- Startup beans service

Figure 8 Updating Total Transaction Lifetime Timeout

4. Update the Total transaction lifetime timeout.

this page to specify settings for the	e transaction service. The transaction service is a serve	r runtime component that can coordinat
	to ensure atomic updates of data. Transactions are sta	
ntime Configuration		
General Properties		Additional Properties
Transaction log directory		- Custom properties
* Total transaction lifetime timeou	•	
180	seconds	
* Async response timeout		
30	seconds	
* Client inactivity timeout	_	
60	seconds	
* Maximum transaction timeout]di	
300	seconds	
Heuristic retry limit	retries	
Heuristic retry wait	-	
0	seconds	
Enable logging for heuristic n	eporting	
	epoteng	
Heuristic completion direction		
Accept heuristic hazard		
Enable file locking		
Enable transaction coordination	on authorization	
Default WS-Transaction specifica		
1.0	uon rever	
External WS-Transaction	HTTP(S) URL prefix	
Select prefix		
Specify custom prefix		
0		
_		
Apply OK Reset Cance	21	

Figure 9 Saving Total Transaction Lifetime Timeout Settings

5. Click Apply and Save your entry.

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

STEP 4: INSTALLATION OF THE .EAR FILE

- 1. Log on to the Administrative Console, for example: http://WAS_SERVER:9080/admin/.
- 2. Select Applications > Application Types > WebSphere Enterprise Applications.
- 3. Click Install.
- 4. Select the location where you placed the .EAR file and select Next.

Preparing for the application installation	?
Specify the EAR, WAR, JAR, or SAR module to upload and install.	
O Local file system	
Full path Browse	
Remote file system Full path	
C:\Insbridge\Config\IBSS.ear Browse	
Next Cancel	

Figure 10 Installing the EAR File

5. Select Fast Path installation process.

Preparing for the application installation	2
How do you want to install the application? Fast Path Prompt only when additional information is required. Detailed - Show all installation options and parameters. 	
Choose to generate default bindings and mappings Previous Next Cancel	

Figure 11 Selecting Fast Path Installation

- 6. Click Next.
- 7. Select the check boxes "Deploy Enterprise Beans" and "Deploy Web services".

nstall New Application	2
Specify options for installing	enterprise applications and modules.
→ Step 1: Select	Select installation options
installation options Step 2 Map modules	Specify the various options that are available for your application.
to servers	Precompile JavaServer Pages files
hosts for Web modules	Directory to install application
Step 4 Metadata for modules	✓ Distribute application
<u>Step 5</u> Summary	Use Binary Configuration
	Deploy enterprise beans Application name
	ins.ru.sr.ear
	Create MBeans for resources
	Override class reloading settings for Web and EJB modules Reload interval in seconds
	Deploy Web services
	Validate Input off/warn/fail warn
	Process embedded configuration
	File Permission
	Allow all files to be read but not written to Allow executables to execute Allow HTML and image files to be read by everyone
	.*\.dll=755#.*\.so=755#.*\.sl=755
	Application Build ID Unknown
	Allow dispatching includes to remote resources
	Allow servicing includes from remote resources
	Business level application name Create New BLA
	Asynchronous Request Dispatch Type Disabled V
	Allow EJB reference targets to resolve automatically
	Deploy client modules Client deployment mode Isolated
	Validate schema
Next Cancel	

Figure 12 Selecting Install Options

- 8. Click Next.
- 9. Select the servers where the IBSS application needs to be deployed from the dropdown and map both the modules to it.

Ins	Install New Application											
	Specify options for installing enterprise applications and modules.											
		<u>Step 1</u> Select installation options	Ma	Map modules to servers								
	→	Step 2: Map modules to servers										
		<u>Step 3</u> Map virtual hosts for Web modules	с	lusters a	and servers:		de01_convertApply					
		<u>Step 4</u> Metadata for modules		WebSphere:cell=server10100Node01Cell,node=server10100Node01,server=server1 Apply Image: Comparison of the server of th								
		Step 5 Summary										
				Select	Module	URI	Server					
					ins.ru.sr.bsn-1.0.0.jar	ins.ru.sr.bsn-1.0.0.jar,META- INF/ejb-jar.xml	WebSphere:cell=server10100Node01	Cell,node=server10100Node01,ser				
			IBSS-UI UI.war,WEB-INF/web.xml WebSphere:cell=server10100Node01Cell,node=server10100Node01,ser									
	F	Previous Next Cano	cel									

Figure 13 Selecting Map Modules to Server

- 10. Click Apply.
- 11. Click Next.
- 12. Leave defaults for step 3 and step 4. Click Finish.
- 13. Save to Master Configuration.
- 14. Select the IBSS application and click Start.

Image: marging server and node server10100Node01 started successfully. The collection may need to be refreshed to show the current status. Image: marging server server server and node server serve										
Enterprise Applications Use this page to manage installed applications. A single application can be deployed onto multiple servers.										
		te Remove File Export Export DDL Export File								
00#										
Select Name	\$	Application Status 👲								
You can admi	nister the following resources:									
Default	Application	⇒								
<u>ins.ru.s</u>	r.ear	\$								
ivtApp		€)								
guery		\$								
Total 4										

Figure 14 Starting the Application

STEP 5: TEST CONNECTION

Test the application on URL: <u>http://<ServerName>:9080/IBSS</u>.

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

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

NOTE: Port 9080 is the most commonly used port. The port number may have been changed when the instance was created.

Stopping and Starting WebSphere

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

INSTALLATION PROCEDURES – UTILIZING A SQL SERVER DATABASE

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

- 1. Creation of the IBSR databases.
- 2. Create a WebSphere entry in IBSS.
- 3. Create a WebSphere 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 download:
 - SQL Server

0

- 2012
- SoftRater: IBSR
 - Latin1_General_BIN
 - DATABASE_BACKUP_IBSR_TEMPLATE_CASE_SENSITIVE.bak
 - SQL_Latin1_General_CP1_CI_AS
 - DATABASE_BACKUP_IBSR_TEMPLATE.bak
 - 2016
 - 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.
- _ 🗆 🗙 Microsoft SQL Server Management Studio (Administrator) <u>File Edit View Debug Tools Window Help</u> : 🛅 = 🗃 = 💕 🛃 🥥 🔔 New Query 📑 📸 📸 🖓 🐰 🖦 🛍 🔊 = (언 = 💭 = 🖳 🚳 🕨 - 🙆 🗒 ₹ ₽ × Object Explorer Connect 🕶 🛃 📑 🍸 🛃 🍒 🖃 🐻 SQLServer (SQL Server 11.0.2100 - sa) 🕀 🚞 Databar New Database... 🕀 🚞 Securit 🕀 🚞 Server 🤇 Attach... 🕀 🚞 Replica Restore Database... 🗄 🚞 Manag Restore Files and Filegroups... Deploy Data-tier Application... Import Data-tier Application... Start PowerShell Reports ۲ Refresh Ready
- 6. Go to Databases.

Figure 15 Right Click to Restore Database

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

5				Resto	re Databas	e - IBSR_ALAMERE			- 🗆 X
🕕 Ready									
Select a page	🔄 Script 🔹	📑 Hel	р						
🚰 General 🚰 Files									
Poptions	Source -			_					
	0 <u>D</u> at	tabase:							~
	Device: Database:			C:\Do	wnloads\Insb	ridge DB\IBSR_Alamere.bak			
				DATA	BASE_BACKL	P_IBSR_TEMPLATE			×
	Destinati	on —							
	Data <u>b</u>	ase:		IBSR_	ALAMERE				~
	<u>R</u> estor	re to:		The la	ist backup tak	en (Friday, August 26, 2016 3:13:12 PM)			<u>T</u> imeline
	Restore p	lan —							
	Ba <u>c</u> kup	sets to r	estore:						
	Restore	Name	Component	Туре	Server	Database	Position	First LSN	Last LSN
	✓		Database	Full	100100100	DATABASE_BACKUP_IBSR_TEMPLATE	1	5521300000003500062	55213000000
Connection									
SQLServer \SQL[sa]									
(Producer (ode[14]									
View connection properties									
Progress									
Oone Done	<							⊻erify E	> Backup Media
							0	K Cancel	Help

Figure 16 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. Run the SQL Server Update script. For SQL Server, update scripts are located 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\Update.

Release 05.06.00 does require an update script to be run

17. 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 Upgrade Scripts

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

An Upgrade folder is located inside each of the database types with one upgrade script and Instructions for running the update. When upgrading from a release prior to release 5.0. users must create new and re-load packages.

For more on Database files, please see Database File Location.

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

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

STEP 2: SETTING UP A WEBSPHERE 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 WebSphere resides:

http://<ServerName or IP Address>:9080/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.

\sim		
(C)		0-Q
	ridge SoftRater Server - WebSphere	05.06.00
Usemame	Global Config File [/scratch/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.	^
Submit	Status Node Node Service Config last time changed Connector last time changed JMS Email EJB Timer	
	Options The options below are shared by each node that shares the softrater config file. Option list.	
	location - help server -	
	Node(s) are Insbridge SoftRater Servers that you would like the web admin to manage. SoftRater Node list.	
	No endpoints found.	
	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.	
	Subscriber list.	~

Figure 17 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 Page

A successful log in places you on the Home page.

C S Attp://localhost:9080/IBSS/	indexjsp	5 + Q
	oridge SoftRater Server - WebSphere	05.06.00
Logout □] IBSS B] Config Nodes Ø Help	Global Config File [/scratch / 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.	
	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	v

Figure 18 IBSS WebSphere 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.

C 🕤 🕘 🥖 http://localhost:9080/IBSS/	index.jsp	0 - Q
	oridge SoftRater Server - WebSphere	05.06.00
Logout		
IBSS IBSS IB Config Nodes III Help	Global Config File [/scratch/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.	Â
	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	~

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

Figure 19 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>.

ſ	🥘 W	/ebpage Dialog		X
	Sc	oftRater Serv	ver r	<u>close</u>
	<u>Subscr</u>	iber		
1	Please e	enter the subscriber information below.		
	Id:	8659		
•	Name:	Alamere ×		
ł			Add	Cancel

Figure 20 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.

(-) (a http://localhost:9080/IBSS/	index las	<u>x</u> =
		0 + 0
	oridge SoftRater Server - WebSphere	05.06.00
Logout		
E IBSS B Config Nodes W Help	Global Config File [/scratch/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. 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.	Â
	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 - IBSS help server - LOCALHOST	
	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.	- 1
	Add Environment	~

Figure 21 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.

For Oracle and SQL Server, Query Block is the size the block of data you want to submit. The default value is 64. Values can be set higher or lower as needed, 16, 32, 128, 512, to increase performance.

Batch Query Block: The size of the block of data to be submitted when batching. The default value is 64. Values can be set higher or lower as needed, 16, 32, 128, 512, to increase performance. 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 controls the maximum size of the batch query operations that can be submitted to the target DBMS in any one transaction. Batch Query Block is for Oracle databases only.

Batch Query Block is not needed for SQL Server or DB2 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 i Server
D ptions Please enter/update your	IBSS Option information.
Subscriber:	Alamere Insurance
Environment Name:	PROD_B
Environment Type:	DSN 🗸
Database Server:	localhost
Database Port:	1433
Query Block:	
Batch Query Block:	
Database Name:	IBSR_Production_B
Schema name:	
Database User Id:	sa
Database Password:	•••••
Provider Type:	MS SQL Server
Database Type:	SoftRater V
Data Dir:	C:\Insbridge\Production_B
Default Environment:	True V
Save Delete	Test Connection! Close
IOTE: On save, if progra	n caching is enabled, ALL items currently cached will be purged.

Figure 22 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.

Alamere Insurance
NDI 🗸
lbc/batchDB
eblogic.jndi.WLInitialContextFactory
3
calhost
001
ORACLE V
SoftRater 🗸
3

Figure 23 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:9080/IBSS/	indexjsp	5 - Q
	bridge SoftRater Server - WebSphere	05.06.00
Logout		
IBSS IB Config Nodes I Help	Global Config File [/scratch/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 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.	^
	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 - IBSS help server - LOCALHOST	
	Add Node Node(s) are Insbridge SoftRater Servers that you would like the web admin to manage.	
	Click on the id of the SoftRater Node in the list to edit.	
	No endpoints found.	
	Add Subscriber The subscriber identifier is an unique number that you would like to represent your company. Please consult with an Insbridge support representative if you have any questions.	
	Click on the id of the subscriber in the list to edit.	
	Add Environment	v

Figure 24 Adding a Node

Using HTTPS

IBSS supports HTTPS (ssl). Functionality is the same as an HTTP connection. HTTPS has to be configured at the server level and no additional configuration is needed in IBSS.

Enable IBSS over HTTPS to secure the application. It is advised to completely disable HTTP when HTTPS(ssl) is enabled.

Check Secure when creating a node instance. This indicates that the connection at the server level is secured. A secure node can be added only in a HTTPS enabled IBSS.

The default port number for HTTPS for different servers is:

- WebLogic: 7002
- WebSphere: 9443
- JBoss: 8443

However, the HTTPS ports can be configured at the server level and may be different

To create a node, server information is needed:

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

×
r Server
<u>tance</u> Rater Server you would like IBSS to manage. ode configured on an IBSS share the same
Windows 🗸
10.100.10.100:7001
PRODUCTION ×

Figure 25 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 Secure if HTTPS is being used. A secure node can be added only in a HTTPS enabled IBSS.
- 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 WebSphere. 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 Production environment with a type of Production.
- 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.

A ttp://localhost/IBFA/	States and States				- × - 0 ا
	bridge Framework Administrator				Version 05.06.00 (x64)
E-Can Insbridge	Content	Settings			
Engine			PRODUCTION		~
Alamere Insurance	En	nvironment(s) you may use	for production purposes. Se	electing an environment below will denote it as the default.	
SoftData SoftData Services Logs		invironment: IBSS Package Location: C:\In	s nsbridge\Packages\Prod	O Test Environment	
er a cog er security - Softubraries - Ø Help	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	NB Server: 10.1 NB ServerType: SQL NB Catalog1: IBSR NB Catalog1: IBSR NB Catalog1: IBSR NB Catalog1: IBSR NB Tablespace: ID NB Catelog1: IB NB Catelog1: IB NB Catelog1: ID NB Catelog1:	00.100.100 Server	Location is a Cluster Location is Secure Discover	
		ave	viciti © 2001.2019. Grade	and/or its affiliates. All rights reserved.	Ŷ

Figure 26 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. For DB2 servers, this is the DB2 Registered Alias Name. For Oracle servers, this is the server name; either IP or DNS will work. The default port used is 1521. The Database listener port number can be appended to the server name if it is something other than the default port. The format for this is: [SERVER NAME]:[PORT NUMBER]

NOTE: If a specific instance of SQL Server is required, for example if a shared MS SQL Server is being utilized, the format for this is: [SERVER NAME\INSTANCE NAME]:[PORT NUMBER]

- 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 WebSphere server may have "WBServerName:9080" as the entry.
- 18. Check if the engine location is a cluster and/or uses https.
- 19. 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.
- 20. Click **SAVE** to save your entries.

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.

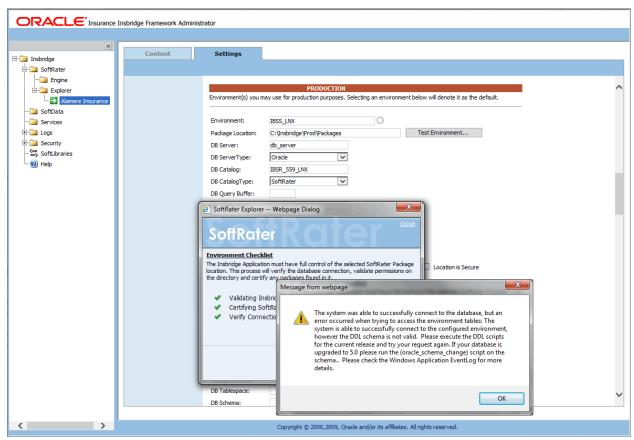


Figure 27 Checking for Database Updates

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:

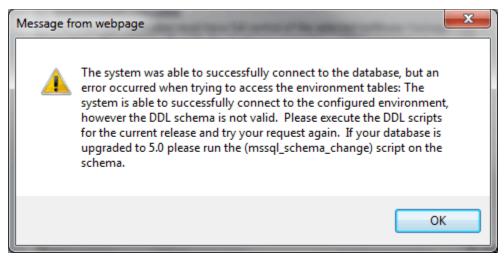


Figure 28 SQL Server Database Update Required Message

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

📕 I 💽 🚺 = I		DDL	_ _ X
File Home Share View			\checkmark
📀 💿 🔻 🕇 퉱 C:\Program Files\	.Oracle\Insbridge\SoftRater\DDL	✓ ¢	Search DDL 🔎
퉬 NetConfig	^ Name	Date modified Type	Size
Dracle	🔉 🖓 DB2	1/10/2017 11:16 AM File folder	
Insbridge	🎳 Oracle	1/10/2017 11:16 AM File folder	
퉬 COM+ 🍱 Framework	📔 SqlServer	1/10/2017 11:16 AM File folder	
	SoftRater_DDL.pdf	6/23/2016 12:39 PM PDF File	172 KB
SoftRater			
🍑 DDL			
🌗 Webs			
퉬 Insurance			
퉬 Inventory			
퉬 Profile Copier			
Reference Assemblies 4 items	~		

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

Figure 29 Location of Database Update Scripts

Chapter 5

INSTALLATION PROCEDURES – UTILIZING AN ORACLE DATABASE

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

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

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 you want to use.
- Your subscriber ID
- 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.

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.

Using the Default Optimizer Features Enable

Performance may be impacted if using the default optimizer_features_enable setting on Oracle 12c. For optimal performance, Insbridge recommends setting the optimizer_features_enable parameter to 11.2.0.4.

The command to set optimizer feature enabled on Oracle 12c is:

alter system set optimizer_features_enable = '11.2.0.4';

Ref Url: https://docs.oracle.com/database/121/REFRN/GUID-E193EC9E-B642-4C01-99EC-24E04AEA1A2C.htm#REFRN10141

Creating an Oracle Database

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 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 need to run a DT table script for each Project/Product.
- 3. Run the Oracle Update script. For Oracle, update scripts are located on the server where Insbridge was installed in the ...\\Oracle\Insbridge\SoftRater\DDL\Oracle folder. For example: C:\Program Files\Oracle\Insbridge\SoftRater\DDL\Oracle\Update.

Release 05.06.00 does require an update script to be run.

- 4. After all DT tables have been created, please make note of:
 - Schema
 - Instance
 - User name
 - Password

This information needs 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.

Oracle Upgrade Scripts

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

An Upgrade folder is located inside each of the database types with one upgrade script and Instructions for running the update. When upgrading from a release prior to release 5.0. users must create new and re-load packages.

For more on Database files, please see Database File Location.

STEP 2: SETTING UP A WEBSPHERE 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 WebSphere resides:

http://<ServerName or IP Address>:9080/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.

\sim		
(C)		0-Q
	ridge SoftRater Server - WebSphere	05.06.00
Usemame	Global Config File [/scratch/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.	^
Submit	Status Node Node Service Config last time changed Connector last time changed JMS Email EJB Timer	
	Options The options below are shared by each node that shares the softrater config file. Option list.	
	location - help server -	
	Node(s) are Insbridge SoftRater Servers that you would like the web admin to manage. SoftRater Node list.	
	No endpoints found.	
	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.	
	Subscriber list.	~

Figure 30 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 Page

A successful log in places you on the Home page.

C S Attp://localhost:9080/IBSS/	indexjsp	5 + Q
	oridge SoftRater Server - WebSphere	05.06.00
Logout □] IBSS B] Config Nodes Ø Help	Global Config File [/scratch / 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.	
	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	v

Figure 31 IBSS WebSphere 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.

(-) @ http://localhost:9080/IBSS/	indexion	<u>حک</u> ات ا
		2.0
	oridge SoftRater Server - WebSphere	05.06.00
Logout		
IBSS IBSS IBS Config Nodes IBS Help	Global Config File [/scratch/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. 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.	î
	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	~

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

Figure 32 Adding a Subscriber

5. 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>.

ſ	🥘 W	/ebpage Dialog		X
	Sc	oftRater Serv	ver 🖌	<u>close</u>
	<u>Subscr</u>	iber		
1	Please e	enter the subscriber information below.		
	Id:	8659		
	Name:	Alamere ×		
1			Add	Cancel
-				

Figure 33 Enter ID

6. 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.

(-) (a http://localhost:9080/IBSS/	index las	<u>x</u> =
		0 + 0
	oridge SoftRater Server - WebSphere	05.06.00
Logout		
E IBSS B Config Nodes W Help	Global Config File [/scratch/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. 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.	Â
	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 - IBSS help server - LOCALHOST	
	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.	- 1
	Add Environment	~

Figure 34 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.

For Oracle and SQL Server, Query Block is the size the block of data you want to submit. The default value is 64. Values can be set higher or lower as needed, 16, 32, 128, 512, to increase performance.

Batch Query Block: The size of the block of data to be submitted when batching. The default value is 64. Values can be set higher or lower as needed, 16, 32, 128, 512, to increase performance. 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 controls the maximum size of the batch query operations that can be submitted to the target DBMS in any one transaction. Batch Query Block is for Oracle databases only.

Batch Query Block is not needed for SQL Server or DB2 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.

Connection to an Oracle RAC

When connecting to an Oracle RAC, you 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)

When using SID, do not use the slash before the name

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

SoftRa	ter Server	erve	<u>clo</u>
ptions			
lease enter/update you Subscriber:	IBSS Option information.	V	
subscriber:	Alamere insurance	*	
Environment Name:	PROD_A		
Environment Type:	DSN 🗸		
Database Server:	10.100.10.100		
Database Port:	1521		
Query Block:			
Batch Query Block:	16		
Database Name:	PROD_A		
Schema name:	PRODUCTION		
Database User Id:	dba		
Database Password:			
Provider Type:	ORACLE 🗸		
Database Type:	SoftRater 💙		
Data Dir:	C:\Insbridge\PROD_A		
Default Environment:	True 🗸		
Save Delete		Test Connection!	Close

Figure 35 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		×	
SoftRat	er Server r Ser	ver	
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 V		
Data Dir:			
Default Environment:	False 🗸		
Save Delete	Test	t Connection! Close	

Figure 36 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:9080/IBSS/	indexjsp	D - C
	oridge SoftRater Server - WebSphere	05.06.00
Logout		
E IBSS Config Nodes Help	Slobal Config File [/scratch/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.	^
	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 - IBSS help server - LOCALHOST	
	Add Node Node(s) are Insbridge SoftRater Servers that you would like the web admin to manage.	
	Click on the id of the SoftRater Node in the list to edit.	
	No endpoints found.	
	Add Subscriber The subscriber identifier is an unique number that you would like to represent your company. Please consult with an Insbridge support representative if you have any questions.	
	Click on the id of the subscriber in the list to edit.	
	Add Environment	Ŷ

Figure 37 Adding a Node

Using HTTPS

IBSS supports HTTPS (ssl). Functionality is the same as an HTTP connection. HTTPS has to be configured at the server level and no additional configuration is needed in IBSS.

Enable IBSS over HTTPS to secure the application. It is advised to completely disable HTTP when HTTPS(ssl) is enabled.

Check Secure when creating a node instance. This indicates that the connection at the server level is secured. A secure node can be added only in a HTTPS enabled IBSS.

The default port number for HTTPS for different servers is:

- WebLogic: 7002
- WebSphere: 9443
- JBoss: 8443

However, the HTTPS ports can be configured at the server level and may be different than listed.

To create a node, server information is needed:

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

🕘 Webpage Dialog	×
SoftRate	r Server
	cance Rater Server you would like IBSS to manage. de configured on an IBSS share the same
Server OS:	Windows 🗸
Server Host/IP Address (Port):	10.100.10.100:7001
Name:	PRODUCTION ×
Secure:	
	Add Ping Server Cancel

Figure 38 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 Secure if HTTPS is being used. A secure node can be added only in a HTTPS enabled IBSS.
- 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.

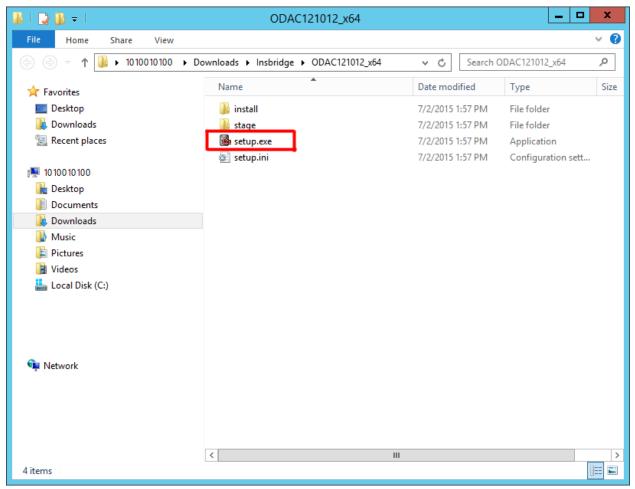


Figure 39 Locating the Oracle Client for 64-bit Installs

NOTE: The Oracle Client must be installed on the machine where IBFA is installed.

- 1. In the 05.06.00-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.

2	Oracle Unive	ersal Installer: We	lcome	- 🗆 X
Welcome				
The Oracle Universa Oracle products.	l Installer guides you	through the install	ation and configura	tion of your
Click "Installed Produ	ucts" to see all insta	lled products.		
				Products
Help	stalled <u>P</u> roducts)	Back	Next Instal	Cancel

Figure 40 Running ODAC for the Oracle Client

4. Click Next.

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

Figure 41 Selecting the ODAC

- 5. Select Oracle Data Access Components for Oracle Client as the Installation Type.
- 6. Click **NEXT**.

	Oracle Universal Installer: Specify Home Details
4	DRACLE 12C
Install Loo	cation
Specify a base location for storing all Oracle software and configuration-related files. This location is the Oracle Base directory. Create one Oracle Base for each operating system user. By default, software and configuration files are installed by version and database name in the Oracle Base directory	
Oracle Base: C	:\app\server Browse)
Software Location Specify a base location for storing Oracle software files separate from database configuration files in the Oracle Base directory. This software directory is the Oracle Home directory. Change the defaults below either to specify an alternative location, or to select an existing Oracle Home	
Path: C:\app	\server\product\12.1.0\client_1
Help	Installed Products Back Next Install Cancel

Figure 42 Selecting the ODAC Installation Directory

- 7. You can leave the defaults or select the base location.
- 8. Click NEXT.

Cracle Universal Installer: Available Produc	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 Client. Which of these components do you want to install?	Access Components for Oracle
Components	Install Status
Dracle Data Access Components for Oracle Client 12.1.0.1.0	New Install
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
M Aracla Data Accase Commonante Documentation for Viewal Studi	New Instell
Expand All) Collapse All) Selec	t All) Deselect All)
Show all components, including required dependencies.	
Help Installed Products Back	ext Install Cancel

Figure 43 Installing the Oracle Client

9. Click Next. No changes are needed.

Cracle Universal	Installer: Database Connection Configuration 🛛 🗕 🗖 🗙
Database Connection	Configuration
In order to be able to connect to an Or \app\product\12.1.0\client_1\Network\	racle Database, a connection alias should be created within C: Admin\TNSNAMES.ORA.
This dialog will assist you in creating	this TNSNAMES.ORA file.
	on information in the fields below. If any field is left blank, the TNSNAMES. abases 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 Produ	icts Back Next Install Cancel

Figure 44 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.

X	Oracle Universal Installer: Oracle Providers for ASP.NET
Orac	DATABASE 12 ^c le Providers for ASP.NET
	SQL scripts located in C:\app\product\12.1.0\client_1\ASP.NET\SQL directory after a new on or an upgrade of Oracle Providers for ASP.NET.
Help	Installed Products Back Next Install Cancel

Figure 45 Information Screen

12. This is an information screen. Click Next.

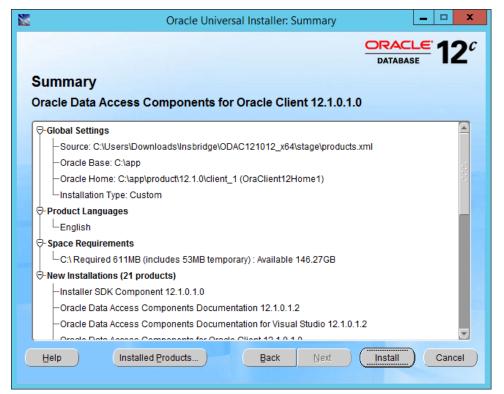


Figure 46 Summary of Items to be installed

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

×	Oracle Universal Installer: End of Installation
	DATABASE 12°
	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
	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 47 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 WebSphere. 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 Production environment with a type of Production.
- 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.

0.00	Contraction of the local division of the loc			
(C) (Image: Second Seco				5 - Q
	oridge Framework Administrator			Version 05.06.00 (x64)
×	Content	Settings		
⊡-© Insbridge				
Engine	-			
E Explorer	6	PRODU invironment(s) you may use for production pu	ICI 10/1 rposes. Selecting an environment below will denote it as th	e default.
- Alamere Insurance	-			
- Services	E	Environment: IBSS	0	
🗄 🛅 Logs		Package Location: C:\Insbridge\Packages		_
Security SoftLibraries		DB Server: 10.100.100.100:1522 DB ServerType: Orade		
Help		DB Catalog: ord 12C.us.orade.com		
		DB CatalogType: SoftRater		
	C	DB Query Buffer:		
	C	DB Tablespace:		
		DB Schema: PROD_DB		
		DB User: PROD_DB		
		DB Password: •••••• Engine Type: WebSphere	V	
		Engine Location: APP_SERVER:9080	Location is a Cluster Location is Secu	
		Engine EnvDef: PRODUCTION	Discover	
				~
	S	Save		*
		Copyright © 2000,200	09, Orade and/or its affiliates. All rights reserved.	

Figure 48 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. For DB2 servers, this is the DB2 Registered Alias Name. For Oracle servers, this is the server name; either IP or DNS will work. The default port used is 1521. The Database listener port number can be appended to the server name if it is something other than the default port. The format for this is: [SERVER NAME]:[PORT NUMBER]
- 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. Enter the Query Buffer and Batch Query Block entries.
- 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 WebSphere server may have "WBServerName:9080" as the entry.
- 18. Check if the engine location is a cluster and/or uses https.
- 19. 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.
- 20. Click **SAVE** to save your entries.

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.

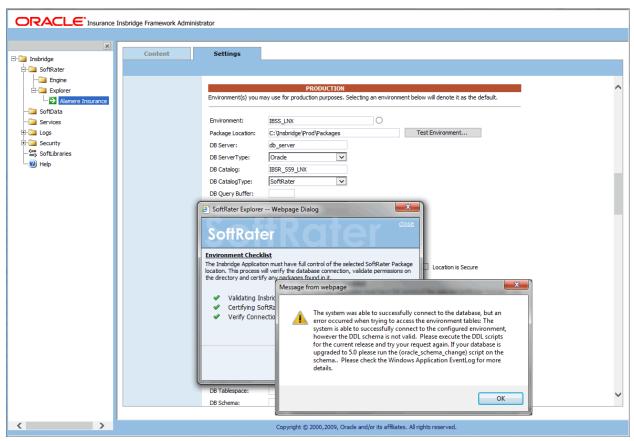


Figure 49 Checking for Database Updates

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:

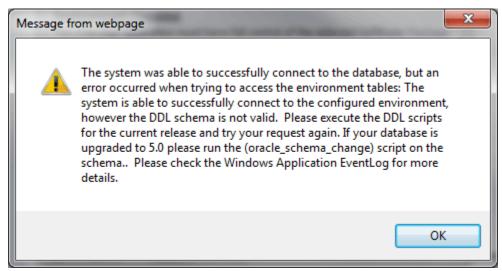


Figure 50 Oracle Database Update Required Message

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

File Home Share V	iew					\sim
🖻 💿 🔻 🕇 <u></u> « Local Di:	ik (C;) 🕨 F	Program Files 🕨 Oracle 🕨 Insbridge 🕨 SoftR	ater ▶ DDL ▶ Oracle	v ¢	Search Oracle	م
퉬 Oracle	^	Name	Date modified	Туре	Size	
Insbridge		鷆 update	5/24/2016 10:32 AM	File folder		
L COM+		📄 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	
📗 update						
SqlServer						
🍌 Webs						
Insurance	~					

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

Figure 51 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 WebSphere Installation utilizing an IBM DB2 (DB2) database:

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

Required DB2.Jar File

A db2jcc.jar file is required to be added as a shared library after the IBSS deployment.

The db2jcc.jar can be found in *<WAS_HOME>*\Program Files (x86)\IBM\WebSphere\AppServer\deploytool\itp\plugins\com.ibm.datatools.db2_2.1.110.v20121008_1514 \driver\db2jcc.jar

If the db2 jar cannot be found in the above location, 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>.

Required DB2 Client

To obtain the DB2 client, please visit the IBM website and download the Client for IBM Data Server Runtime Client, Version 11.1.

For example:

https://www-01.ibm.com/marketing/iwm/iwm/web/preLogin.do?source=swg-idsdpds

You also can perform a search for "IBM Data Server Runtime Client, Version 11.1"

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

STEP 1: CREATING A DB2 DATABASE

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

IMPORTANT: It is **strongly recommended** that any database modification be performed by a qualified database administrator (DBA). The database setup procedures and tasks require the skill set of a database administrator. If you are not a database administrator, please stop. Improper setup may result in unwelcome changes to the database. Please consult with a qualified database administrator before proceeding.

Before proceeding, please have ready:

- The Project/Products that your company uses. You will need the ID number for each.
- 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 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 DB database, you need to run a DT table script for each Project/Product.
- 3. Run the DB2 Update script. For DB2, update scripts are located on the server where Insbridge was installed in the ...\\Oracle\Insbridge\SoftRater\DDL\DB2 folder. For example: C:\Program Files\Oracle\Insbridge\SoftRater\DDL\DB2\Update.

Release 05.06.00 does require an update script to be run.

- 4. After all DT tables have been created, please make note of:
 - Schema
 - Instance
 - User name
 - Password

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

Location of DB2 DDL Directory

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

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

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

DB2 Upgrade Scripts

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

An Upgrade folder is located inside each of the database types with one upgrade script and Instructions for running the update. When upgrading from a release prior to release 5.0. users must create new and re-load packages.

For more on Database files, please see Database File Location.

STEP 2: ASSIGNING THE SHARED INSBRIDGE LIBRARIES

1. Open the WebSphere Administrative console, and navigate to **Environment > Shared libraries**.



Figure 52 Selecting Shared Libraries

2. On the Shared Libraries screen, select the Scope of the shared library to be created and click **New**.

ared Libraries	2	
Shared Libraries		
Use this page to define a container-wide sha	ared library that can be used by deployed applications.	
Scope: Cell=1010010100Node01Cell,	Node=1010010100Node01, Server=server1	
	the resource definition is visible. For detailed how it works, <u>see the scope settings help.</u> ver=server1	
New Delete		
Select Name 🔷	Description 🗘	
None		
Total 0		

Figure 53 Creating a New Shared Library

3. On the Configuration Screen, enter the following details:

Name- <Any appropriate name>Classpath- <db2_location>

This is the location of the db2jcc.jar. Please see Figure 54 Entering Shared Library Information.

General Properti	es
* Scope	
cells:101001010	00Node01Cell:nodes:1010010100Node01:servers:server1
* Name	
db2_jar	
Description	
DB2 Jar File	
	~
* Classpath	
08_1514	n\com.ibm.datatools.db2_2.1.110.v201210
Native Library Pa	ath
	^
	~
-Class Loadir	10
ciuss couun	lated class loader for this shared library

Figure 54 Entering Shared Library Information

- 4. Click Apply.
- 5. **Save** the configuration.

Navigate to Websphere Enterprise Applications
 Applications > Application Types > WebSphere enterprise applications.



Figure 55 Selecting WebSphere Enterprise Applications

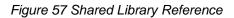
7. In the Enterprise Applications screen, click on the application name ins.ru.sr.ear.

Enterprise Applications	
Use this page to manage installed applications. A single appl	ication can be deployed onto multiple servers.
+ Preferences	
Start Stop Install Uninstall Update Roll	out Update Remove File Export Export DDL Export File
Select Name 🛟	Application Status 👲
You can administer the following resources:	
DefaultApplication	⇒
ins.ru.sr.ear	₽
	\$
Total 4	

Figure 56 Selecting the Insbridge Application

8. In the application Configuration screen, click on Shared library references

his page to configure an enterprise application. cation or its modules.	Click the links to access pages for further configuring of the
figuration	
General Properties	
	Modules
Name	 <u>Manage Modules</u>
ins.ru.sr.ear	 Metadata for modules
Application reference validation	 Display module build Ids
Issue warnings	Web Module Properties
Detail Properties	· ·
	Session management Contrast East Machine
 <u>Target specific application status</u> Startup behavior 	<u>Context Root For Web Modules</u> JSP and JSF options
	 Virtual hosts
 <u>Application binaries</u> Class loading and update detection 	<u>indu noso</u>
 Request dispatcher properties 	Enterprise Java Bean Properties
 JASPI provider 	 Default messaging provider references
Custom properties	 Application profiles
 View Deployment Descriptor 	 Bind EJB Business
 Last participant support extension 	EJB JNDI names
References	Client Module Properties
Resource references	 Client module deployment mode
 Shared library references 	Web Services Properties
 Shared library relationships 	 Provide JMS and EJB endpoint URL information
	 Publish WSDL files
Apply OK Reset Cancel	 Provide HTTP endpoint URL information
	Database Profiles



9. In the Shared library references screen, select the application check box and click on **Reference** shared libraries

	ared libraries that the uration at the appropri	application or individual modules reference. Tl ate scope.	hese libraries must be defined in
Referer	nce shared libraries		
Select	Application	URI	Shared Libraries
	ins.ru.sr.ear	META-INF/application.xml	
Select	Module	URI	Shared Libraries
	IBSS-UI	UI.war,WEB-INF/web.xml	

10. Select the DB2 Shared Library name in the Available list and click on the arrow -> to add it to the Selected list.

ap libraries to the applicatio	n or module listed
is,ru,sr,ear	
lect the library in the Avail	ble list. Move it to the Selected list by clicking >>.
vailable:	Selected:

Figure 58 Adding the DB2.jar

- 11. Make sure the DB2 library name appears in the Selected list. Click **OK**. This will return you to the Shared Library Reference screen.
- 12. The DB2.jar must be shared with the Module also. Select the Module from the list and follow the same process as above.

		ared libraries that the uration at the appropri	application or individual modules reference. Th ate scope.	hese libraries must be defined i
Re	eferer	nce shared libraries		
S	elect	Application	URI	Shared Libraries
		ins.ru.sr.ear	META-INF/application.xml	
S	elect	Module	URI	Shared Libraries
E	~	IBSS-UI	UI.war,WEB-INF/web.xml	

Figure 59 Adding the Shared Library to the Module

13. The DB2 library name must appear for both the Application and Module.

pecify shared libraries that the application or individual modules reference. These libraries must be defined in e configuration at the appropriate scope.				
	nce shared libraries			
Calaat	Application	URI	Shared Libraries	
	ins.ru.sr.ear	META-INF/application.xml	DB2 SQL4_Jar RNG	
Select	Module	URI	Shared Libraries	
	IBSS-UI	UI.war,WEB-INF/web.xml	DB2 SQL4_Jar RNG	

Figure 60 DB2.jar Shared with Application and Module

NOTE: Other shared library references can be added at the same time.

- 14. Click **OK**.
- 15. Save the configuration.
- 16. Restart WebSphere for the changes to take effect.

STEP 3: SETTING UP A WEBSPHERE 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 WebSphere resides:

http://<ServerName or IP Address>:9080/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.

\sim		
()) / localhost:9080/IBSS/		D-0
	oridge SoftRater Server - WebSphere	05.06.00
Username	Global Config File [/scratch/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.	^
Submit	Status Node Node Config last time Connector last time JMS Email EJB Timer Name Status Status Status Status Status	
	Options The options below are shared by each node that shares the softrater config file. Option list. location - help server -	
	Node(s) are Insbridge SoftRater Servers that you would like the web admin to manage. SoftRater Node list. • No endpoints found.	
	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. Subscriber list.	v

Figure 61 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 Page

A successful log in places you on the Home page.

C () () () () () () () () () () () () ()	index.jsp	0-Q
	ridge SoftRater Server - WebSphere	05.06.00
☐ 1855 19 ☐ Config Nodes W Help	Global Config File [/scratch/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.	î
	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 Instridge support representative if you have any questions.	
	Click on the id of the subscriber in the list to edit.	
	No Subscribers found.	
	Add Environment	~

Figure 62 IBSS WebSphere 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.

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

C 🕞 🖉 http://localhost:9080/IBSS/i	ndexjsp	5 - Q
	ridge SoftRater Server - WebSphere	05.06.00
Logout		
E IBSS E Config Nodes W Help	Global Config File [/scratch/Insbridge/Config/insbridge.net.softraterconfig.xml] The Insbridge Softstater Server cluster consists of multiple Softstater 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.	î
	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.	
	annonaño anhhour rehumenten u Aon unazo auti denomente.	
	Click on the id of the subscriber in the list to edit.	
	No Subscribers found.	
	Add Environment	Ŷ

Figure 63 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>.

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

Figure 64 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.

(-) (a http://localhost:9080/IBSS/	index ion	<u>x ا ا</u>
	ondge sontkater server - websphere	05.06.00
Logout E IBSS B Config Nodes Ø Help	Global Config File [/scratch/Insbridge/Config/insbridge.net.softraterconfig.xml] The Insbridge SoftRater Server cluster consists of multiple SoftRater Server Instances numning 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.	^
	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 - IBSS help server - LOCALHOST	
	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. Ø <u>8659</u> - Alamere Insurance	- 1
	Add Environment	v

Figure 65 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.

For Oracle and SQL Server, Query Block is the size the block of data you want to submit. The default value is 64. Values can be set higher or lower as needed, 16, 32, 128, 512, to increase performance.

Batch Query Block: The size of the block of data to be submitted when batching. The default value is 64. Values can be set higher or lower as needed, 16, 32, 128, 512, to increase performance. 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 controls the maximum size of the batch query operations that can be submitted to the target DBMS in any one transaction. Batch Query Block is for Oracle databases only.

Batch Query Block is not needed for SQL Server or DB2 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	9	×
SoftRa	ter Server i Server	<u>clos</u> e
)ptions		
lease enter/update you	r IBSS Option information.	
Subscriber:	Alamere Insurance	
Environment Name:	Production_A	
Environment Type:	DSN V	
Database Server:	10.100.10.100	
Database Port:	50000	
Query Block:	16	
Batch Query Block:		
Database Name:	IBSR_PROD_A	
ichema name:	IBSR_PROD_A	
Database User Id:	sa	
Oatabase Password:	•••••	
Provider Type:	DB2	
Database Type:	SoftRater V	
Data Dir:		
Default Environment:	False V	
Save Delete	Test Connection! Clo	ose

Figure 66 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		×
SoftRat	er Server r Ser	Ver
Options Please enter/update your IB	ISS Option information	
Subscriber:	Alamere V	
Environment Name:	BATCH	
Environment Type:		
Name:	jdbc/batchDB	
Context Factory:	weblogic.jndi.WLInitial ContextFactory	
RMI:	t3	
Url Host:	localhost	
Url Port:	7001	
Provider Type	ORACLE V	
Database Type:	SoftRater V	
Data Dir:		
Default Environment:	False 🗸	
Save Delete	Test	Connection! Close

Figure 67 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.

C 🕞 🖉 http://localhost:9080/IBSS/	lindex.jsp	5 - Q
	bridge SoftRater Server - WebSphere	05.06.00
Logout		
IBSS IBSS IB Config Nodes IB Help	Global Config File [/scratch/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.	^
	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 - IBSS help server - LOCALHOST	
	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. $ ightarrow \frac{8559}{2}$ - Alamere Insurance	
	Add Environment	v

Figure 68 Adding a Node

Using HTTPS

IBSS supports HTTPS (ssl). Functionality is the same as an HTTP connection. HTTPS has to be configured at the server level and no additional configuration is needed in IBSS.

Enable IBSS over HTTPS to secure the application. It is advised to completely disable HTTP when HTTPS(ssl) is enabled.

Check Secure when creating a node instance. This indicates that the connection at the server level is secured. A secure node can be added only in a HTTPS enabled IBSS.

The default port number for HTTPS for different servers is:

- WebLogic: 7002
- WebSphere: 9443
- JBoss: 8443

However, the HTTPS ports can be configured at the server level and may be different than listed.

To create a node, server information is needed:

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

🕘 Webpage Dialog	×
SoftRate	r Server
	cance Rater Server you would like IBSS to manage. de configured on an IBSS share the same
Server OS:	Windows 🗸
Server Host/IP Address (Port):	10.100.10.100:7001
Name:	PRODUCTION ×
Secure:	
	Add Ping Server Cancel

Figure 69 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 Secure if HTTPS is being used. A secure node can be added only in a HTTPS enabled IBSS.
- 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.

1. Select the setup application. The DB2 client installation will begin. Select the language to be used. The installation prepares to launch.

國	DB2 Setup - IBM Data Server Runtime Client - DB2COPY1	x
	IBA	ī.
IBM DB2 11.1 for Li	inux, UNIX, and Windows	
The DB2 Setup wizard will	ill install IBM Data Server Runtime Client on your computer. To continue, click Next.	
	and others, 1993, 2016. This Program is licensed under the terms of the license agreement accompany	/ing
Non_IBM_License', if app	e agreement may be either located in a Program directory folder or library identified as 'License' or plicable, or provided as a printed license agreement. Please read this agreement carefully before using rogram, you agree to these terms. IBM, the IBM logo, and ibm.com are trademarks of International	the
Business Machines Corp., or other companies. A cu	., registered in many jurisdictions worldwide. Other product and service names might be trademarks of urrent list of IBM trademarks is available on the Web at "Copyright and trademark information" at	
ADP Schedule Contract w	ytrade.shtml. US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA with IBM Corp.	
	Cancel	

Figure 70 Installing DB2 Client and Fix Pack

2. Click Next for the introduction and terms.

閿	DB2 Setup - IBM Data Server Runtime Client - DB2COPY1	_ 🗆 X
Select	the installation type	
[Organization Approximately 786 MB Organization Approximately 781 MB Organization Approximately 781 - 786 MB	
	Information about the installation type The typical setup includes function required for applications to access DB2 servers and most produc features and functionality. To add features for other optional functionality later in the setup process, click Custom.	:t
InstallShield	< <u>B</u> ack Next >	Cancel

Figure 71 DB2 Client Install

- 3. A Typical installation is recommended. Leave all the defaults and click **NEXT**. The installation will begin.
- 4. Click **NEXT** as the installation continues.

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 WebSphere. 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 Production environment with a type of Production.
- 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.

Content Settings Conten	<mark>کر</mark> 🗉 🖃	and the second	Contraction of the local distance of the loc	-
Content Settings Indendge Content Softstare PRODUCTION Page Proprovertify up you yave for production a process. Softstare and environment being uil denote it as the default	Version 05.06.00 (x64)		sbridge Framework Administrator	
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Figure 72 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. For DB2 servers, this is the DB2 Registered Alias Name. For Oracle servers, this is the server name; either IP or DNS will work. The default port used is 1521. The Database listener port number can be appended to the server name if it is something other than the default port. The format for this is: [SERVER NAME]:[PORT NUMBER]
- 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. Enter the Query Buffer and Batch Query Block entries.
- 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 WebSphere server may have "WBServerName:9080" as the entry.
- 18. Check if the engine location is a cluster and/or uses https.
- 19. 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.
- 20. Click **SAVE** to save your entries.

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

	e Insbridge Framework Administrator	
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⊡📴 Insbridge	Content Settings	
🗄 🛅 SoftRater		
📴 Engine		
🗄 🧊 Explorer	PRODUCTION	^
Alamere Insurance	Environment(s) you may use for production purposes. Selecting an environment below will denote it as the default.	
📴 SoftData		
··· 📴 Services	Environment: IBSS_LNX	
E Logs	Package Location: C: Unsbridge \Prod\Packages Test Environment	
🗄 🛄 Security	DB Server: db_server	
SoftLibraries	DB ServerType: Orade 🗸	
	DB Catalog: IBSR_559_LNX	
	DB CatalogType: SoftRater	
	DB Query Buffer:	
	SchfBater Evolution - Webnang Dialog	
	SoftRater Explorer Webpage Dialog	
	close	
	SoftRater Concernation	
	Environment Checklist The Insbridge Application must have full control of the selected SoftRater Package	
	location. This process will verify the database connection, validate permissions on	
	the directory and certify any packages frund in it.	
	✓ Validating Insbrid	
	Certifying SoftRa	
	Verify Connectio The system was able to successfully connect to the database, but an error occurred when trying to access the environment tables: The	
	system is able to successfully connect to the configured environment,	
	however the DDL schema is not valid. Please execute the DDL scripts	
	for the current release and try your request again. If your database is upgraded to 5.0 please run the (oracle_schema_change) script on the	
	schema Please check the Windows Application EventLog for more	
	details.	
	DB Tablespace:	\sim
	DB Schema:	
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Figure 73 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:

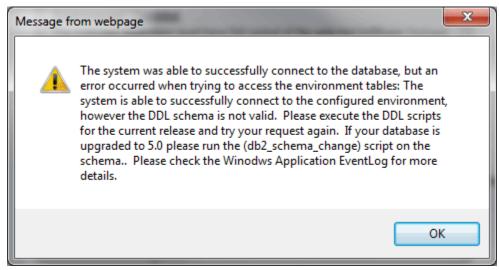


Figure 74 DB2 Database Update Required Message

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

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

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insbridge	퉬 Oracle		1/10/2017 11:16 AM	File folder		
COM+	📃 🔋 📔 SqlServer		1/10/2017 11:16 AM	File folder		
🎍 Framework	SoftRater_DDL.pdf	DDL.pdf	6/23/2016 12:39 PM PD	PDF File 172 KB	172 KB	
퉬 SoftRater						
퉬 DDL						
퉬 Webs						
퉬 Insurance						
鷆 Inventory						
鷆 Profile Copier						
Reference Assemblies 4 items	~					

Figure 75 Location of Database Update Scripts

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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