Oracle® Service Bus

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Introducing Oracle Service Bus Examples

What are Oracle Service Bus Examples?

The Oracle Service Bus examples provide you with a quick and easy way to experience the run-time capability of using Oracle Service Bus proxy services in your design environment. The examples are user-driven pre-configured scenarios that use Oracle Service Bus to communicate with business services. The examples are based on typical business scenarios that benefit from using the proxy services to communicate between clients and business processes. You can run the examples to see how Oracle Service Bus operates in the run-time environment, or you can build the examples in the development environment to get more in-depth knowledge of how to configure the proxy service. For instructions on how to build a solution similar to those presented in the example scenarios, follow the instructions provided in Oracle Service Bus Tutorials.

Examples Description

The following examples are bundled with Oracle Service Bus:

• Routing a Loan Application

A primary mortgage company uses Oracle Service Bus to route loan applications to appropriate business services based on the interest rate requested by the customer. An application containing a request for a rate less than 5% requires management approval and is routed to an appropriate business service for processing.

All other loan applications are routed to another business service for processing. The target business service responds, indicating whether the loan application is approved or rejected.

• Transforming a Loan Application

A primary mortgage company uses Oracle Service Bus to identify and re-route loan applications that are easy to sell to secondary mortgage companies. A loan application with a principal request of \$25,000,000.00 can be sold to a secondary mortgage company. For such a loan application, a Web service lookup is performed to retrieve the customer's credit rating.

The credit rating information is added to the loan application and the application is then forwarded to the secondary mortgage company's Web service to be processed. All other loan applications are routed to another business service for processing. The target business service responds indicating whether the loan application is approved or rejected.

Validating a Loan Application

A primary mortgage company uses Oracle Service Bus to route loan applications to appropriate business services and to validate the loan applications. When an application is invalid (due to missing or incorrect data), an error message is returned to the client and the error is reported in the Oracle Service Bus Console.

A complete application is routed to a selected business service for review. If approved, the business service returns a message indicating whether the loan is accepted or rejected.

Using the Oracle Service Bus Examples

Prerequisites to Running the Examples

Oracle Service Bus must be running in the examples domain.

Running the Examples

The examples are automatically installed as part of the Oracle Service Bus installation. They are located in the following directory:

ALSB_HOME\samples\servicebus\examples

When you install Oracle Service Bus on a Windows system, the installation program automatically creates shortcut files on the Start Menu. Options on the Start Menu vary according to the components you choose to install.

To Run the Examples

- 1. Start the examples server in one of the following ways:
 - On Windows, from the Start menu, select:

Start > All Programs > Oracle WebLogic > Oracle Service Bus 10gR3 > Examples > Start Examples Server

Run the startWebLogic command, as shown below:

On Windows execute:

ALSB_HOME\samples\domains\servicebus\startWebLogic.cmd

On UNIX execute:

ALSB_HOME/samples/domains/servicebus/startWebLogic.sh

where ALSB_HOME represents the name of the home directory.

This starts the examples server and launches a browser window that displays the Oracle Service Bus **Examples** page, from which you can run the examples. This page contains descriptions of each of the examples, information and link to load all the examples, and links to run each of the three examples. There are also links to additional resources that will help you learn more about Oracle Service Bus.

Note: If your examples server is running, you can launch the page from which to start the examples by entering the following URL in your browser location field:

```
http://host:port/examplesWebApp/index.jsp
```

where host:port represents the host and port on which your **examples** server is running. Typically, this is localhost:7021/examplesWebApp/index.jsp.

 In the Oracle Service Bus Examples page load the examples data in the domain by clicking Load the Examples. If you have previously loaded the examples, the Reload the Examples option is displayed instead. Click Reload the Examples only if you have changed your domain.

Note: As stated in **Step 1** of the Oracle Service Bus Examples page, you only have to load the examples the first time you use them in a domain. You must reload the examples only if you change your domain.

3. Click **Run the Example** for the examples you want to run. A browser is launched with instructions on how to use and test the application.

Running the Oracle Service Bus Console

You can start the Oracle Service Bus Console in the examples domain.

- 1. Start the Oracle Service Bus Console in one of the following ways:
 - On Windows, from the Start menu, select:

Start > All Programs > Oracle WebLogic > Oracle Service Bus 10gR3 > Service Bus Console

- Enter the following URL in your browser location field:

```
http://host:port/sbconsole/
```

where host:port represents the host and port on which your server is running. Typically, this is localhost:7021/sbconsole/

2. Enter the username and password for the example domain: weblogic/weblogic

What the Examples Illustrate

The Oracle Service Bus examples are based on a loan application request scenario, in which Oracle Service Bus is used to manage message routing in the enterprise environment.

Running the examples introduces the routing, transformation, and validation capabilities of Oracle Service Bus. You can see how the proxy service manages the interaction between the client and the business services to route messages, based on the information from the loan application.

Running an example invokes an application that uses the proxy service to communicate with the client and the business services. When you run an example, you are prompted to change the parameter setting, which in turn, changes the behavior of the proxy services defined in Oracle Service Bus. The fields that you can change for a given example are highlighted on the examples page. Each page also provides basic instructions for executing the examples successfully.

Related Topics

Examples and Tutorials for Oracle Service Bus