

Writing Applications with the Wrapper for EJB

This chapter covers the following topics:

- Programming a Client Application
 - Compiling and Running the Client Application
-

Programming a Client Application

To program a client which uses an enterprise bean, perform the following tasks:

Locate the Home Interface

- Create the initial context

```
Context initial=new InitialContext();
```

- Get the object bound to the JNDI name EJBExample

```
Context myEnv=(Context) initial.lookup("EJBExample");
```

- Narrow the reference to an EJBExampleHome object

```
EJBExampleHome home=(EJBExampleHome)PortableRemoteObject.narrow(objref,EJBExampleHome.class)
```

Create an Enterprise Java Bean Instance

- Declare the bean object

```
EJBExample ejbExample=null;
```

- Create the bean object with default settings

```
ejbExample=home.create();
```

- Or create the bean object with default settings except for the user name

```
ejbExample=home.create("myUserName");
```

- Or create the bean object with default settings except for the user name and password

```
ejbExample=home.create("myUserName","myPassword");
```

Invoke the Mapped EntireX RPC method

- Create the input and output objects

```
ExampleSquareInput input=new ExampleSquareInput();  
ExampleSquareOutput output=new ExampleSquareOutput();
```

- Set the input value

```
input.operand=9;
```

- Show the input value

```
System.out.println( "square (input) >>> "+input.operand );
```

- Call the EntireX RPC method

```
output =.ejbExample.square(input);
```

- Show the output value

```
System.out.println( "square (input) >>> "+output.result );
```

- Remove the bean object

```
ejbExample.remove();
```

Compiling and Running the Client Application

- **Compile the client with the client JAR**

It will be packed by the Application Server or by the Ant script.

- **Get the *build.xml* file from the example directory**

Set antfile to your current XML file.

Replace Client.java by your client class name.

To run the client

- Enter

```
ant jboss_run_client
```