
 **New Dynamic Web Project**

**Dynamic Web Project**  
Create a standalone Dynamic Web project or add it to a new or existing Enterprise Application.



**Project name:**

**Project location**  
☒ Use default location  
**Location:**


**Target runtime**

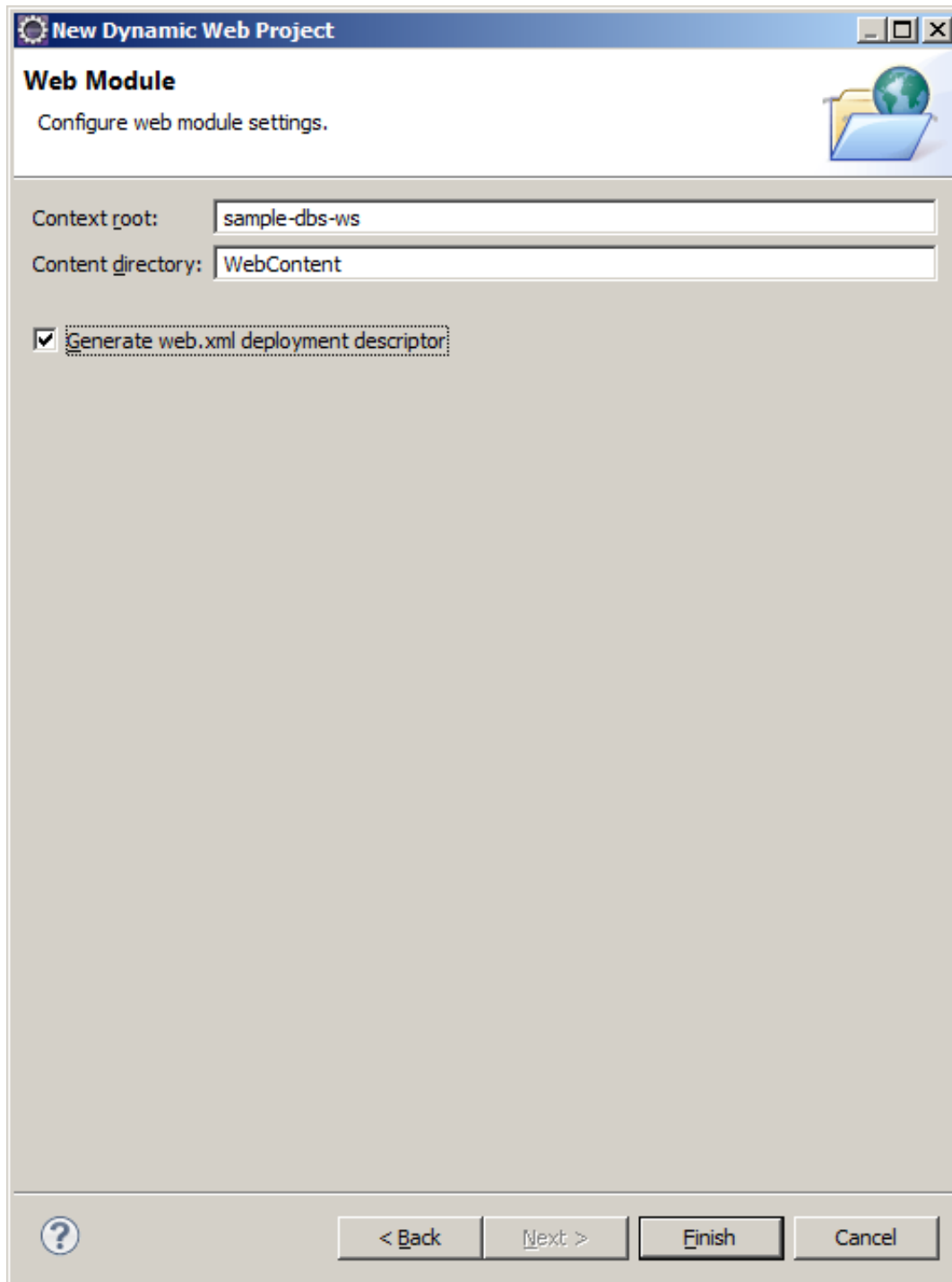
**Dynamic web module version**

**Configuration**  
   
A good starting point for working with JBoss EAP 6.3.0.GA runtime. Additional facets can later be installed to add new functionality to the project.

**EAR membership**  
☐ Add project to an EAR  
**EAR project name:**

**Working sets**  
☐ Add project to working sets  
**Working sets:**





The image shows a 'New Dynamic Web Project' dialog box. It has a title bar with a gear icon and the text 'New Dynamic Web Project'. Below the title bar is a section titled 'Web Module' with a sub-header 'Configure web module settings.' and a folder icon with a globe. The main area contains two text input fields: 'Context root:' with the value 'sample-dbs-ws' and 'Content directory:' with the value 'WebContent'. Below these is a checked checkbox labeled 'Generate web.xml deployment descriptor'. At the bottom, there is a question mark icon and four buttons: '< Back', 'Next >', 'Finish', and 'Cancel'.

**New Dynamic Web Project**

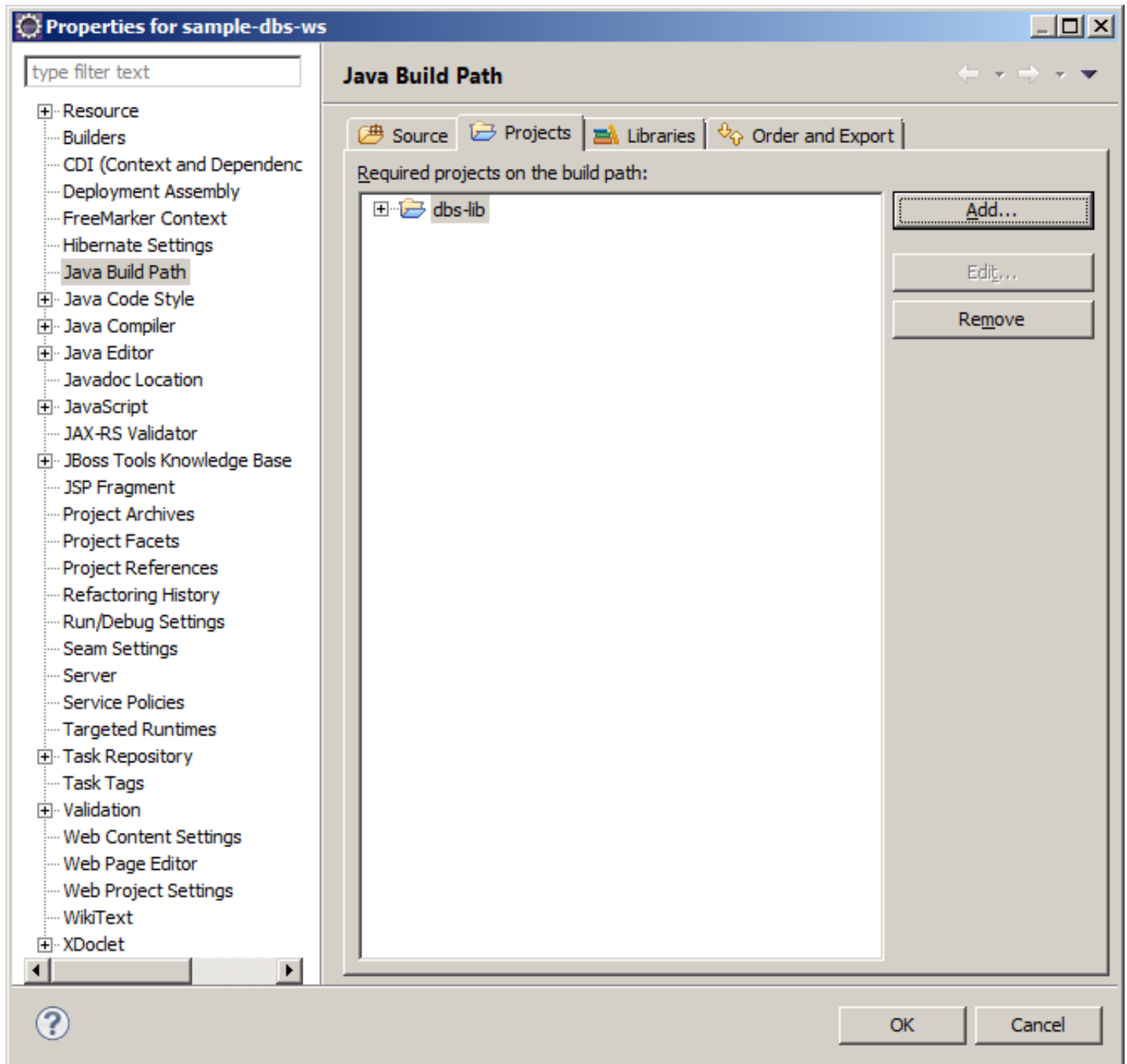
**Web Module**  
Configure web module settings.

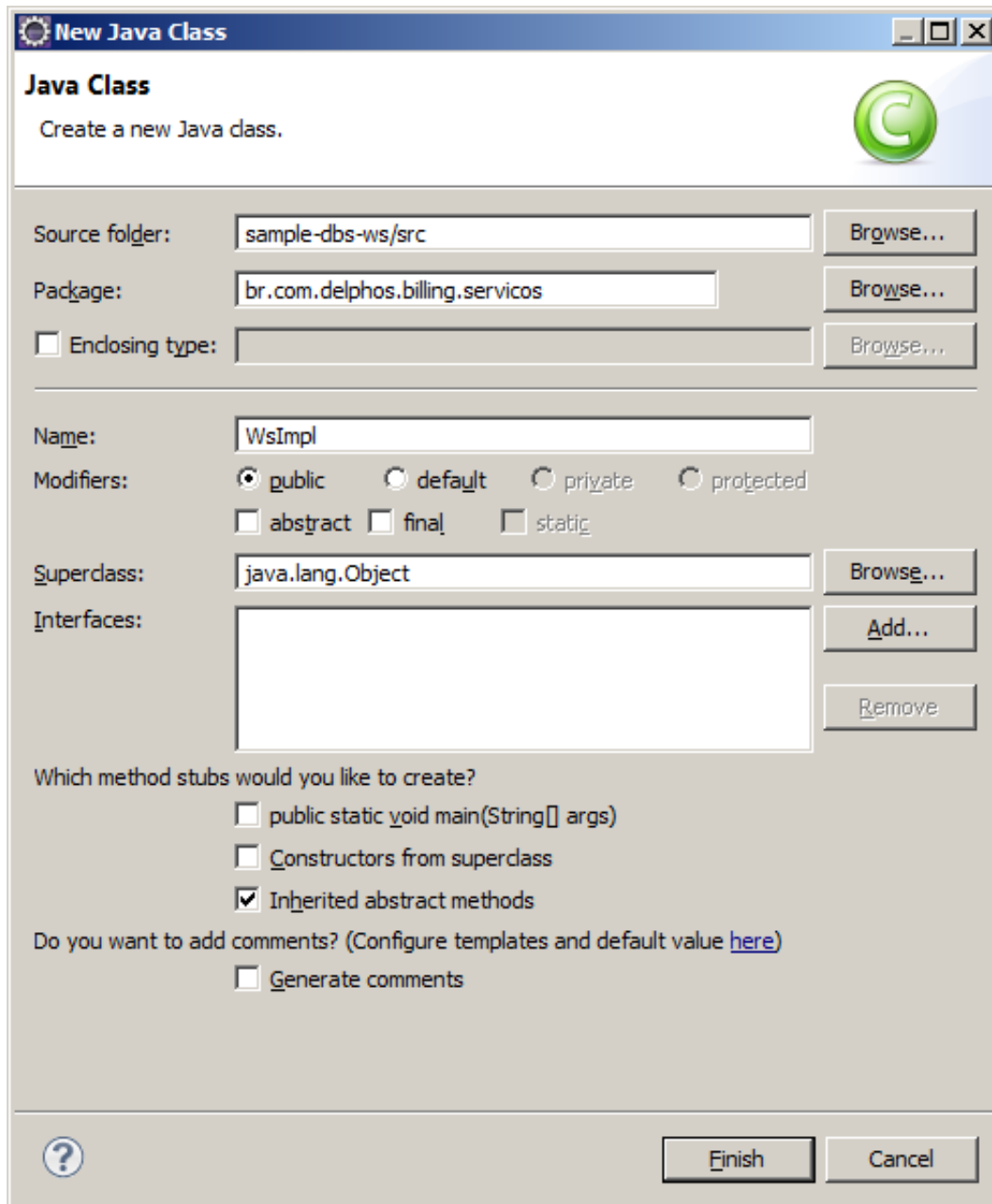
Context root: sample-dbs-ws

Content directory: WebContent

☒ Generate web.xml deployment descriptor

? < Back Next > Finish Cancel





The image shows a 'New Java Class' dialog box from an IDE. It has a title bar with a gear icon and the text 'New Java Class'. Below the title bar is a section titled 'Java Class' with a green circular icon containing a 'C'. The main area contains several input fields and checkboxes. 'Source folder' is set to 'sample-dbs-ws/src'. 'Package' is set to 'br.com.delphos.billing.servicos'. 'Endosing type' is unchecked. 'Name' is set to 'WsImpl'. 'Modifiers' are set to 'public', 'default', 'private', and 'protected'. 'Superclass' is set to 'java.lang.Object'. 'Interfaces' is empty. 'Which method stubs would you like to create?' has three options: 'public static void main(String[] args)' (unchecked), 'Constructors from superclass' (unchecked), and 'Inherited abstract methods' (checked). 'Do you want to add comments?' has one option: 'Generate comments' (unchecked). At the bottom are 'Finish' and 'Cancel' buttons.

**New Java Class**

**Java Class**

Create a new Java class.

Source folder:

Package:

☐ Endosing type:

Name:

Modifiers: ☒ public ☐ default ☐ private ☐ protected

☐ abstract ☐ final ☐ static

Superclass:

Interfaces:

Which method stubs would you like to create?

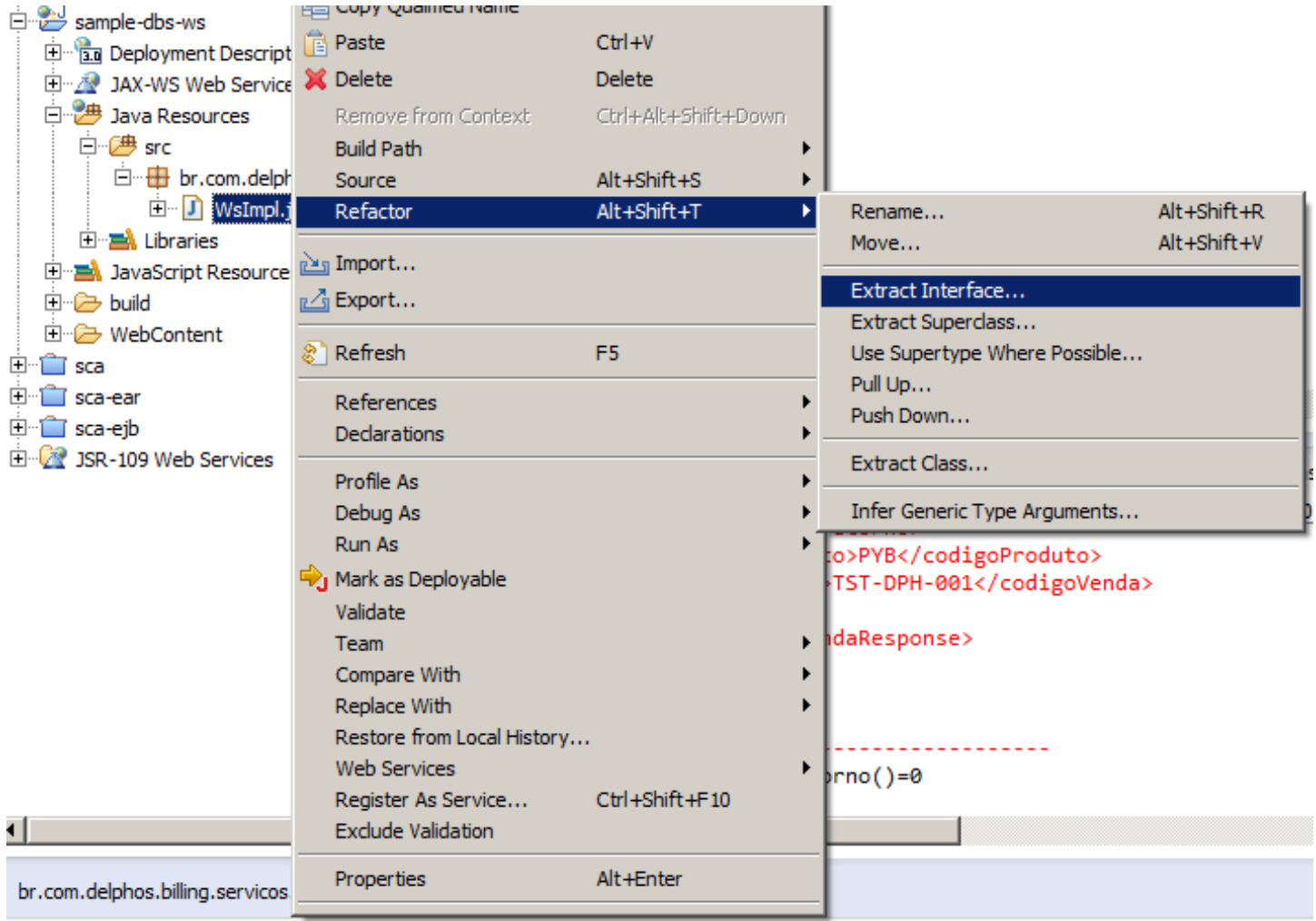
☐ public static void main(String[] args)

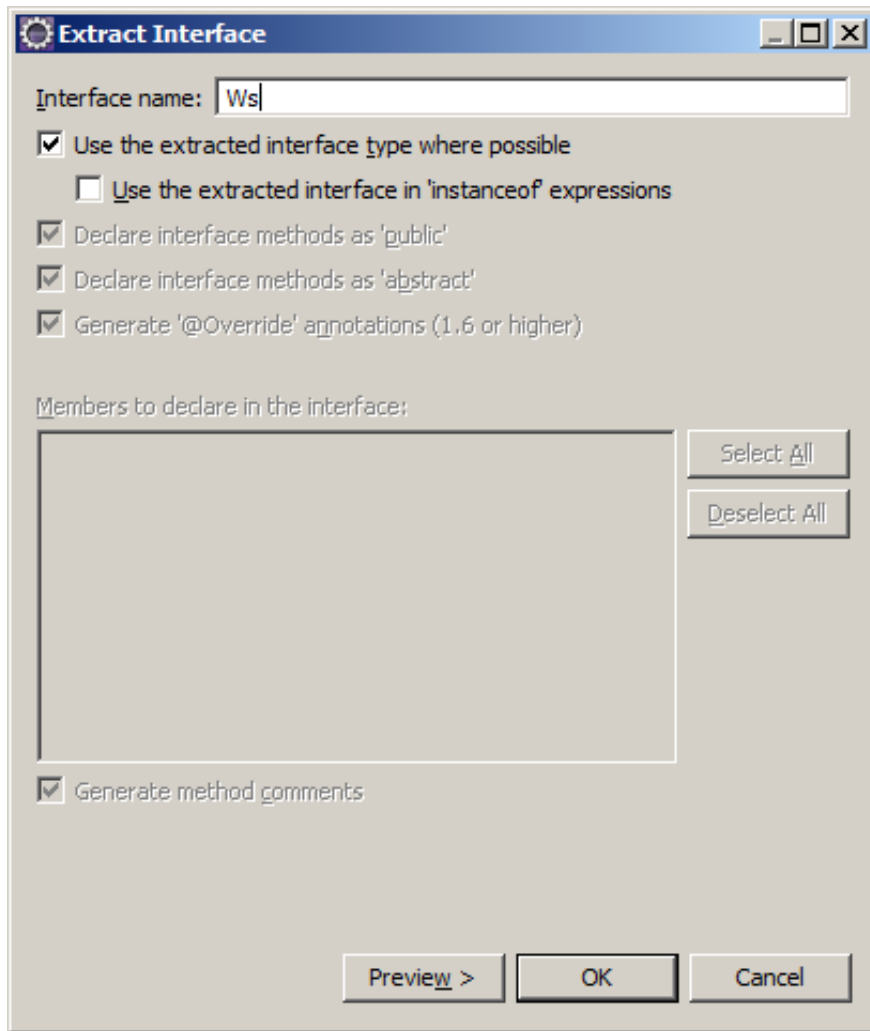
☐ Constructors from superclass

☒ Inherited abstract methods

Do you want to add comments? (Configure templates and default value [here](#))

☐ Generate comments





```
package br.com.delphos.billing.servicos;
```

```
import br.com.delphos.billing.excecoes.BillingException;
import br.com.delphos.billing.servicos.retornos.RetornoCancelarVenda;
import br.com.delphos.billing.servicos.retornos.RetornoIniciarVendaCartaoCredito;
```

```
public interface Ws {
```

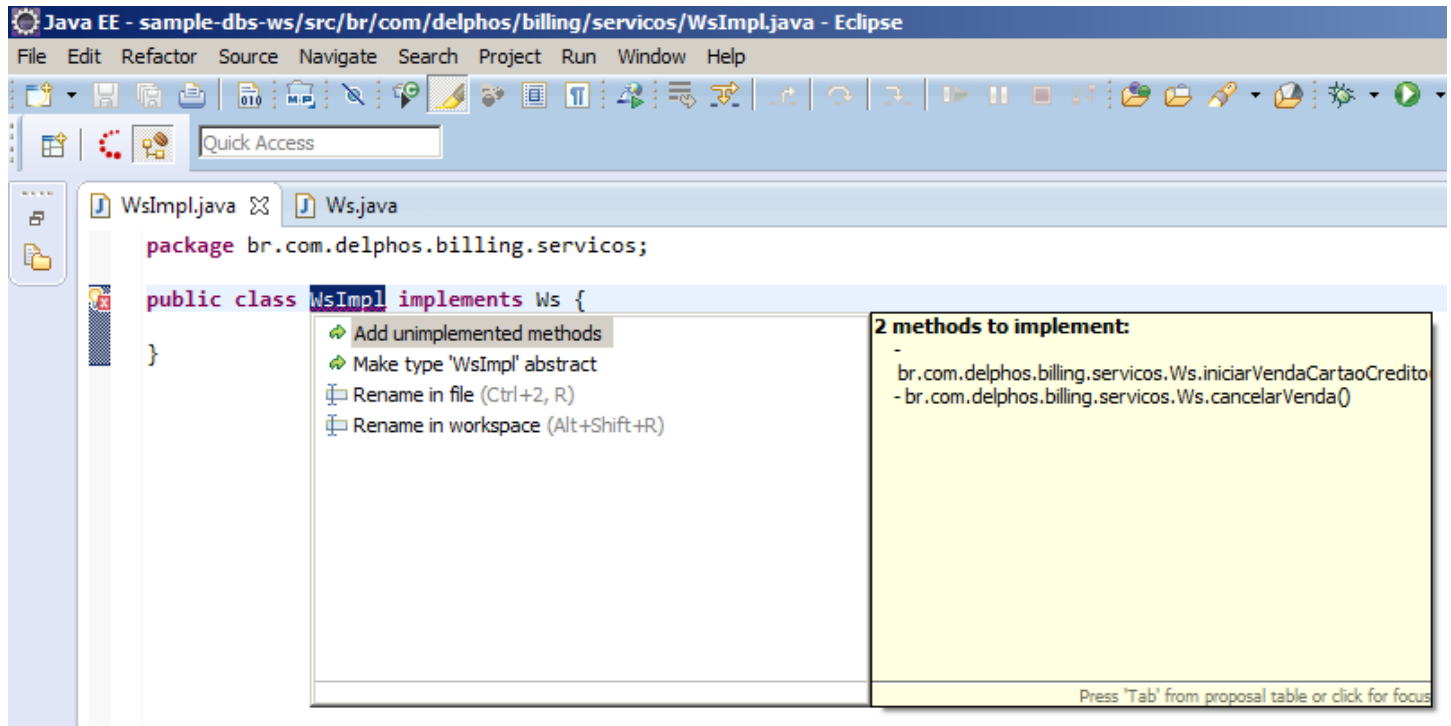
```
    public RetornoIniciarVendaCartaoCredito iniciarVendaCartaoCredito(
        String token, String codigoEmpresa, String codigoProduto,
        String codigoSistema, String cpf, String nome, String email,
        String dddCelular, String telefoneCelular, String dddContato,
        String telefoneContato, String codigoVenda, String dataVenda,
        String bandeiraCartao, String cpfPortadorCartao,
        String nomePortadorCartao, String numeroCartao,
        String vencimentoCartao, String cvvCartao, String tipoCobranca,
        String quantidadeParcelas, String valorCobranca,
        String dataPrimeiraCobranca, String dataFimVigencia)
        throws BillingException;
```

```
    public RetornoCancelarVenda cancelarVenda(String codigoEmpresa,
        String codigoProduto, String codigoSistema, String token,
```



```
String cpf, String codigoVenda,
String codigoMotivoCancelamento, String valorEstorno,
String flagCancelamentoGateway) throws BillingException;

}
```



```
package br.com.delphos.billing.servicos;
```

```
import javax.naming.InitialContext;
import javax.naming.NamingException;
```

```
import br.com.delphos.billing.excecoes.BillingException;
import br.com.delphos.billing.servicos.retornos.RetornoCancelarVenda;
import br.com.delphos.billing.servicos.retornos.RetornoIniciarVendaCartaoCredito;
```

```
public class WsImpl implements Ws {
```

```
private BillingService getService() {
```

```
try {
    InitialContext ic = new InitialContext();
    return (BillingService)ic.lookup("java:global/dbs/BillingServiceBean");
} catch (NamingException e) {
    // TODO Auto-generated catch block
    e.printStackTrace();
}
return null;


}
```

```
@Override
```

```
public RetornoIniciarVendaCartaoCredito iniciarVendaCartaoCredito(
String token, String codigoEmpresa, String codigoProduto,
String codigoSistema, String cpf, String nome, String email,
String dddCelular, String telefoneCelular, String dddContato,
String telefoneContato, String codigoVenda, String dataVenda,
String bandeiraCartao, String cpfPortadorCartao,
String nomePortadorCartao, String numeroCartao,
String vencimentoCartao, String cvvCartao, String tipoCobranca,
String quantidadeParcelas, String valorCobranca,
String dataPrimeiraCobranca, String dataFimVigencia)
throws BillingException {
// TODO Auto-generated method stub
return getService().iniciarVendaCartaoCredito(token, codigoEmpresa, codigoProduto,
codigoSistema, cpf, nome, email, dddCelular, telefoneCelular, dddContato,
telefoneContato, codigoVenda, dataVenda, bandeiraCartao, cpfPortadorCartao,
nomePortadorCartao, numeroCartao, vencimentoCartao, cvvCartao, tipoCobranca,
quantidadeParcelas, valorCobranca, dataPrimeiraCobranca, dataFimVigencia);
}


@Override
public RetornoCancelarVenda cancelarVenda(String codigoEmpresa,
String codigoProduto, String codigoSistema, String token,
String cpf, String codigoVenda, String codigoMotivoCancelamento,
String valorEstorno, String flagCancelamentoGateway)
throws BillingException {
// TODO Auto-generated method stub
return getService().cancelarVenda(codigoEmpresa, codigoProduto, codigoSistema,
token, cpf, codigoVenda, codigoMotivoCancelamento, valorEstorno, flagCancelamentoGateway);
}

}
```

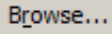
 **Web Service**


**Web Services**

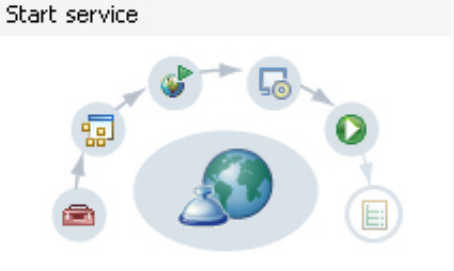
Select a service implementation or definition and move the sliders to set the level of service and client generation.



**Web service type:** Bottom up Java bean Web Service


**Service implementation:** br.com.delphos.billing.servicos.WsImpl 




**Start service**

**Configuration:**  
[Server runtime: JBoss Enterprise Application Platform 6.1+](#)  
[Web service runtime: Apache CXF 2.x](#)  
[Service project: sample-dbs-ws](#)  
[Service EAR project: sample-dbs-wsEAR](#)

**Client type:** Java Proxy


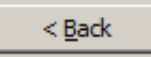
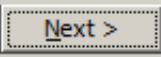
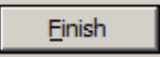
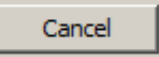


**No client**

**Configuration: No client generation.**

☐ Publish the Web service

☐ Monitor the Web service

Web Service

Apache CXF 2.7.17 Web Service Java Class Starting Point Configuration

Select an existing Service Endpoint Interface (SEI) or create an SEI by extracting an interface from the implementation class.

☒ Use a Service Endpoint Interface:

Select an SEI:

br.com.delphos.billing.servicos.Ws

Browse...

Create an SEI:

Members to declare in the extracted SEI:

☐ iniciarVendaCartaoCredito(String, String)

☐ cancelarVenda(String, String, String, String, String, String, String, String, String, String)

Select All...

Deselect All...

?

< Back


Next >


Finish

Cancel

https://www.evernote.com/Home.action#n=b8c1a217-afb2-47d5-bad1-8e4671cc7c91&ses=4&sh=2&sds=5&

12/30


**Web Service**

**Apache CXF 2.7.17 Web Service JAX-WS Annotations Configuration**


Optionally, select the JAX-WS Annotations to add.

Select the Methods to annotate:

	@WebMethod	@WebParam	@RequestWrap...	@ResponseWr...	@WebResult
Ws					
● iniciarVendaCartaoCredit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
● cancelarVenda(String, St	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>


Preview:

```

throws BillingException;

@WebMethod(operationName = "cancelarVenda", action = "urn:CancelarVenda")
@WebResult(name = "return")
public RetornoCancelarVenda cancelarVenda(@WebParam(name = "arg0") String codigoEmpresa,
    @WebParam(name = "arg1") String codigoProduto, @WebParam(name = "arg2") String codigos,
    @WebParam(name = "arg4") String cpf, @WebParam(name = "arg5") String codigoVenda,
    @WebParam(name = "arg6") String codigoMotivoCancelamento, @WebParam(name = "arg7") Str
    @WebParam(name = "arg8") String flagCancelamentoGateway) throws BillingException;
}

```



< Back

Next >

Finish

Cancel

**Web Service**

### Apache CXF 2.7.17 Web Service Java2WS Configuration

Configure the Apache CXF Java to WS options.

Java2WS Generation Options:


☐ Generate Client ☐ Generate Server ☒ Generate Wrapper and Fault Beans

☒ Generate WSDL

WSDL File:

Default SOAP Binding:

☒ Generate separate XSD for the types




**Web Service**

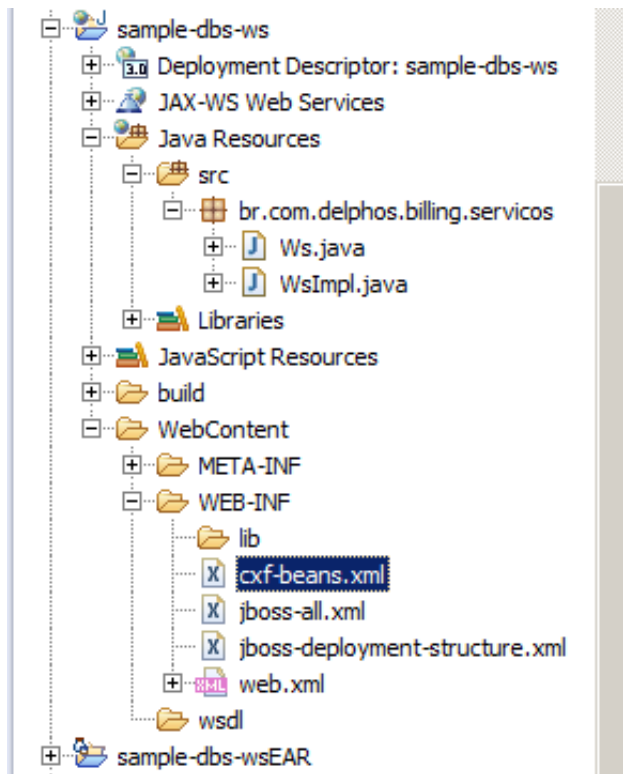
### Web Service Publication

Do you want to publish your Web service?

☐ Launch the Web Services Explorer to publish this Web service to the Unit Test UDDI Registry

☐ Launch the Web Services Explorer to publish this Web service to a UDDI Registry





### jboss-all.xml

```
<jboss xmlns="urn:jboss:1.0">
```

```
<!-- É necessário especificar uma dependência à implantação do DBSDB. -->
```

```
<!-- Esta configuração indica ao JBoss EAP que, para implantar esta -->
```

```
<!-- aplicação, é necessário que o DBSDB já esteja implantado. Isto se -->
```

```
<!-- torna necessário para que o JBoss EAP seja capaz de ordenar as -->
```

```
<!-- implantações corretamente, de forma que ele seja capaz de detectar -->
```

```
<!-- as dependências entre EJBs e injetá-las. Se isto não for feito, a -->
```

```
<!-- aplicação dependente poderá ser implantada, mas não irá ser -->
```

```
<!-- iniciada. -->
```

```
<jboss-deployment-dependencies xmlns="urn:jboss:deployment-dependencies:1.0">
```

```
<dependency name="dbsdb.jar" />
```

```
<dependency name="dbs.jar" />
```

```
</jboss-deployment-dependencies>
```

```
</jboss>
```

### jboss-deployment-structure.xml

```
<!-- xmlns="urn:jboss:deployment-structure:1.2" -->
```

```
<jboss-deployment-structure>
```

```
<deployment>
```

```
<dependencies>
```

```
<module name="deployment.dbs-lib.jar" />
```

</dependencies>

<exclude-subsystems>

<subsystem name="webservices" />

</exclude-subsystems>

</deployment>

</jboss-deployment-structure>

**cxf-beans.xml** (Remova a linha em vermelho)

<?xml version="1.0" encoding="UTF-8"?>

<beans xmlns="http://www.springframework.org/schema/beans"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:jaxws="http://cxf.apache.org/jaxws"

xsi:schemaLocation="http://www.springframework.org/schema/beans

http://www.springframework.org/schema/beans/spring-beans-2.5.xsd http://cxf.apache.org/jaxws

http://cxf.apache.org/schemas/jaxws.xsd">

<import resource="classpath:META-INF/cxf/cxf.xml" />

<import resource="classpath:META-INF/cxf/cxf-extension-soap.xml" />

<import resource="classpath:META-INF/cxf/cxf-servlet.xml" />

<jaxws:endpoint id="ws"

implementor="br.com.delphos.billing.servicos.WsImpl"

**wsdlLocation="wsdl/wsimpl.wsdl"**

address="/ws">

<jaxws:features>

<bean class="org.apache.cxf.feature.LoggingFeature" />

</jaxws:features>

</jaxws:endpoint>

</beans>

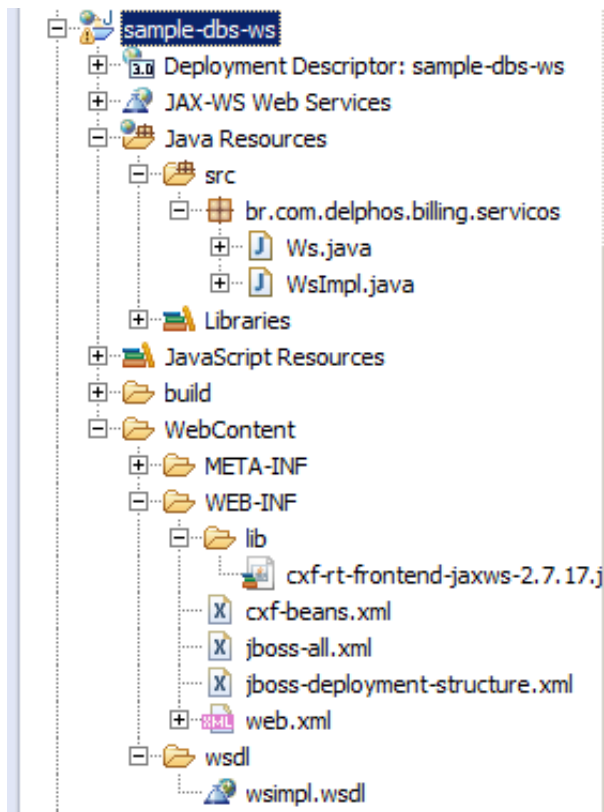
## **FAÇA DEPLOY NO SERVIDOR E ACESSE**

<http://localhost:8080/sample-dbs-ws/services/ws?wsdl>

SALVE O CÓDIGO FONTE EM **/dbs-ws/WebContent/wsdl/wsimpl.wsdl**

COPIE C:\LibJava\apache-cxf-2.7.17\modules\cxf-rt-frontend-jaxws-2.7.17.jar PARA /dbs-ws/WebContent/WEB-INF/lib/cxf-rt-frontend-jaxws-2.7.17.jar





**cxf-beans.xml** (Adicione a linha em vermelho)

```
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:jaxws="http://cxf.apache.org/jaxws"
xsi:schemaLocation="http://www.springframework.org/schema/beans
http://www.springframework.org/schema/beans/spring-beans-2.5.xsd http://cxf.apache.org/jaxws
http://cxf.apache.org/schemas/jaxws.xsd">
<import resource="classpath:META-INF/cxf/cxf.xml" />
<import resource="classpath:META-INF/cxf/cxf-extension-soap.xml" />
<import resource="classpath:META-INF/cxf/cxf-servlet.xml" />
<jaxws:endpoint id="ws"
implementor="br.com.delphos.billing.servicos.WsImpl"
wsdlLocation="wsdl/wsimpl.wsdl"
address="/ws">
<jaxws:features>
<bean class="org.apache.cxf.feature.LoggingFeature" />
</jaxws:features>
</jaxws:endpoint>
</beans>
```

## RE-DEPLOY DA APLICAÇÃO

SoapUI 5.2.1

File Project Suite Case Step Tools Desktop Help

Empty SOAP REST Import Save All Forum Trial Preferences Proxy

Search Forum Online Help

Projects

- servisserver?wsdl
- ws?wsdl
- WsImplServiceSoapBinding
- cancelarVenda
- iniciarVendaCartaoCredito
- Request 1

Request Properties

Property	Value
Name	Request 1
Description	
Message Size	1412
Encoding	UTF-8

Properties

Request 1

http://localhost:8080/sample-dbs-ws/services/ws

Raw XML

```
<?xml version='1.0' encoding='UTF-8'>
<soapenv:Envelope xmlns:soapenv='http://schemas.xmlsoap.org/soap/envelope/'>
  <soapenv:Header/>
  <soapenv:Body>
    <ser:iniciarVendaCartaoCredito>
      <arg0>68243243225235128263218236235128243262250100230207222207207207</arg0>
      <arg1>AIZ</arg1>
      <arg2>PYB</arg2>
      <arg3>BMS</arg3>
      <arg4>50434483346</arg4>
      <arg5>MACHADO DE ASSIS</arg5>
      <arg6>teste@teste.com</arg6>
      <arg7>21</arg7>
      <arg8>99588562</arg8>
      <arg9>21</arg9>
      <arg10>22730419</arg10>
      <arg11>TST-DPH-001</arg11>
      <arg12>11/11/2015</arg12>
      <arg13>01</arg13>
      <arg14>88523123822</arg14>
      <arg15>MACHADO DE ASSIS</arg15>
      <arg16>0000000000000001</arg16>
      <arg17>11/2017</arg17>
      <arg18>111</arg18>
      <arg19>002</arg19>
      <arg20>10</arg20>
      <arg21>58416</arg21>
      <arg22>11/11/2015</arg22>
      <arg23>11/11/2016</arg23>
    </ser:iniciarVendaCartaoCredito>
  </soapenv:Body>
</soapenv:Envelope>
```

Auth Headers (0) Attachments (0) WS-A WS-RM JMS Headers JMS Property (0)

response time: 4989ms (392 bytes)

SoapUI log http log jetty log error log wsrm log memory log

Inspector

Raw XML

```
<?xml version='1.0' encoding='UTF-8'>
<soap:Envelope xmlns:soap='http://schemas.xmlsoap.org/soap/envelope/'>
  <soap:Body>
    <ns2:iniciarVendaCartaoCreditoResponse xmlns:ns2='http://ser'>
      <return>
        <retorno>0</retorno>
        <codigoProduto>PYB</codigoProduto>
        <codigoVenda>TST-DPH-001</codigoVenda>
        <codigoVendaBilling>45</codigoVendaBilling>
      </return>
    </ns2:iniciarVendaCartaoCreditoResponse>
  </soap:Body>
</soap:Envelope>
```

Headers (5) Attachments (0) SSL Info WSS (0) JMS (0)

SoapUI 5.2.1

File Project Suite Case Step Tools Desktop Help

Empty SOAP REST Import Save All Forum Trial Preferences Proxy

Search Forum Online Help

Projects

- servisserver?wsdl
- ws?wsdl
- WsImplServiceSoapBinding
- cancelarVenda
- Request 1
- iniciarVendaCartaoCredito
- Request 1

Request Properties

Property	Value
Name	Request 1
Description	
Message Size	826
Encoding	UTF-8

Properties

Request 1

Proxy Setting: Automatic

http://localhost:8080/sample-dbs-ws/services/ws

Raw XML

```
<?xml version='1.0' encoding='UTF-8'>
<soapenv:Envelope xmlns:soapenv='http://schemas.xmlsoap.org/soap/envelope/'>
  <soapenv:Header/>
  <soapenv:Body>
    <ser:cancelarVenda>
      <!--Optional:-->
      <arg0>AIZ</arg0>
      <!--Optional:-->
      <arg1>PYB</arg1>
      <!--Optional:-->
      <arg2>BMS</arg2>
      <!--Optional:-->
      <arg3>68243243225235128263218236235128243262250100230</arg3>
      <!--Optional:-->
      <arg4>98324985972</arg4>
      <!--Optional:-->
      <arg5>TST-DPH-001</arg5>
      <!--Optional:-->
      <arg6>001</arg6>
      <!--Optional:-->
      <arg7>-1</arg7>
      <!--Optional:-->
      <arg8>S</arg8>
    </ser:cancelarVenda>
  </soapenv:Body>
</soapenv:Envelope>
```

Auth Headers (0) Attachments (0) WS-A WS-RM JMS Headers JMS Property (0)

response time: 1328ms (325 bytes)

SoapUI log http log jetty log error log wsrm log memory log

Inspector

Raw XML

```
<?xml version='1.0' encoding='UTF-8'>
<soap:Envelope xmlns:soap='http://schemas.xmlsoap.org/soap/envelope/'>
  <soap:Body>
    <ns2:cancelarVendaResponse xmlns:ns2='http://servicos.billing.deloitte.com.br'>
      <return>
        <retorno>0</retorno>
        <codigoProduto>PYB</codigoProduto>
        <codigoVenda>TST-DPH-001</codigoVenda>
      </return>
    </ns2:cancelarVendaResponse>
  </soap:Body>
</soap:Envelope>
```

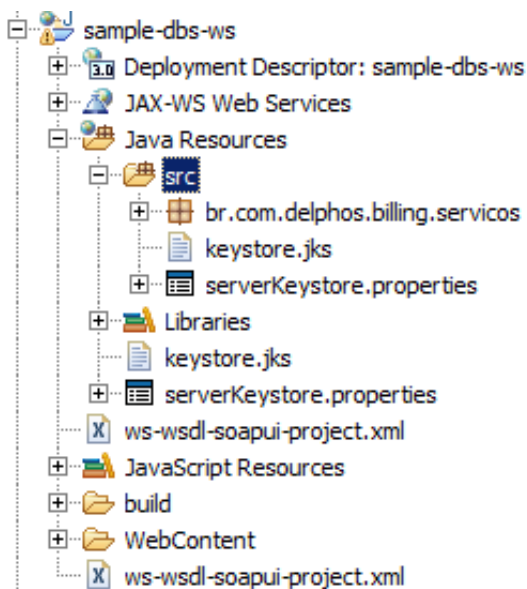
Headers (5) Attachments (0) SSL Info WSS (0) JMS (0)

## APLICANDO CERTIFICADO

```
keytool.exe -genkey -alias testkey -keystore keystore.jks -storepass storepass -dname "cn=testkey" -keyalg RSA
keytool.exe -export -alias testkey -file publickey.rsa -keystore keystore.jks -storepass storepass
keytool.exe -import -alias testkey -file publickey.rsa -keystore clientkeystore.jks -storepass clientstorepass
```

### serverKeystore.properties

```
org.apache.ws.security.crypto.provider=org.apache.ws.security.components.crypto.Merlin
org.apache.ws.security.crypto.merlin.keystore.file=keystore.jks
org.apache.ws.security.crypto.merlin.keystore.password=storepass
org.apache.ws.security.crypto.merlin.keystore.type=jks
```



### br.com.delphos.billing.security.ServerPasswordCallback

```
package br.com.delphos.billing.security;

import java.io.IOException;

import javax.security.auth.callback.Callback;
import javax.security.auth.callback.CallbackHandler;
import javax.security.auth.callback.UnsupportedCallbackException;
import org.apache.ws.security.WSPasswordCallback;

public class ServerPasswordCallback implements CallbackHandler {

    @Override
    public void handle(Callback[] arg0) throws IOException,
        UnsupportedCallbackException {
```

```
WSPasswordCallback pc = (WSPasswordCallback) arg0[0];
```

```
// set the password for our message.
```

```
pc.setPassword("storepass");
```

```
}
```

```
}
```

### **cxf-beans.xml (ADICIONE AS LINHAS VERMELHAS)**

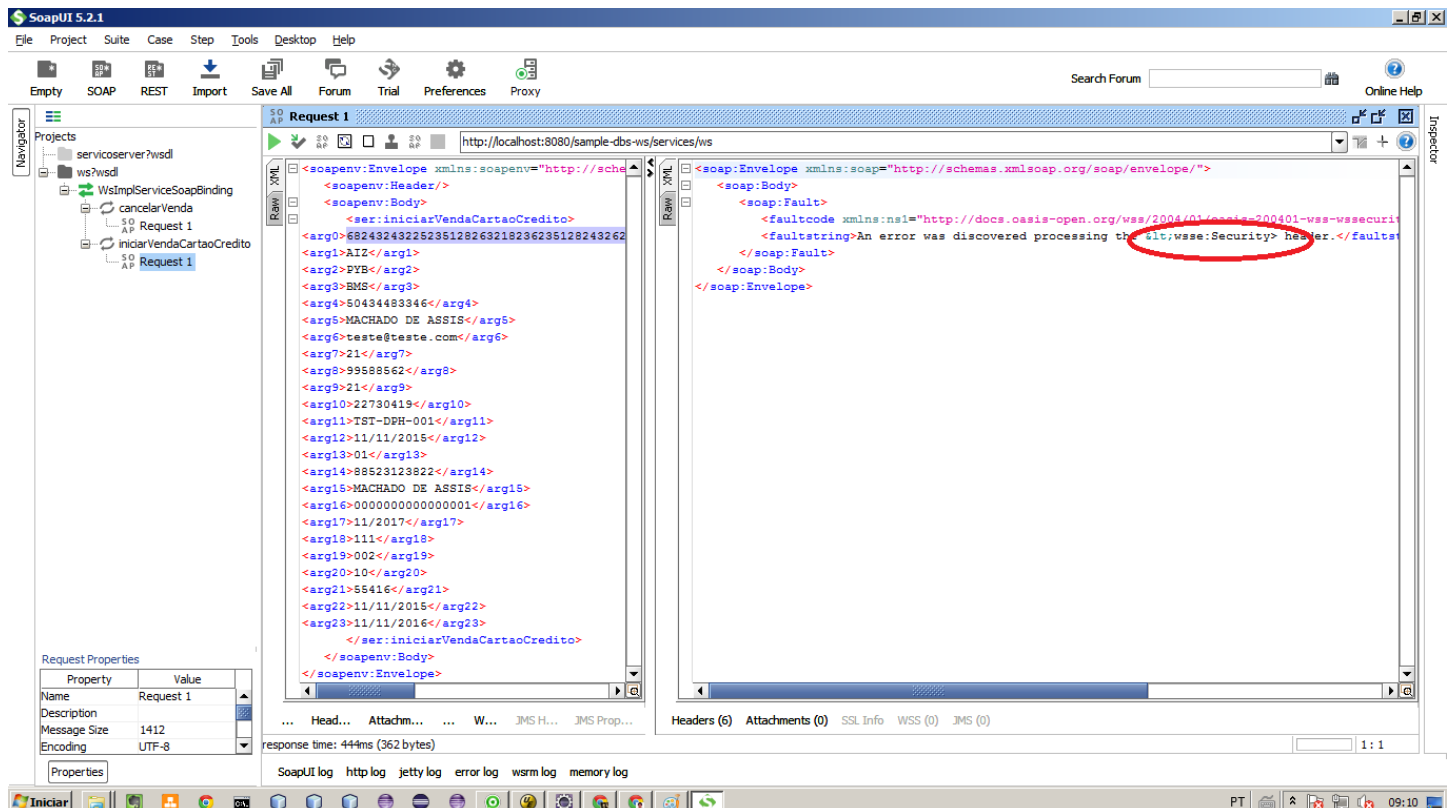
```
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:jaxws="http://cxf.apache.org/jaxws"
xsi:schemaLocation="http://www.springframework.org/schema/beans
http://www.springframework.org/schema/beans/spring-beans-2.5.xsd http://cxf.apache.org/jaxws
http://cxf.apache.org/schemas/jaxws.xsd">
<import resource="classpath:META-INF/cxf/cxf.xml" />
<import resource="classpath:META-INF/cxf/cxf-extension-soap.xml" />
<import resource="classpath:META-INF/cxf/cxf-servlet.xml" />
<!-- ***** -->
<bean id="myPasswordCallback" class="br.com.delphos.billing.security.ServerPasswordCallback"/>
(classe criada anteriormente)
<!-- ***** -->
<jaxws:endpoint id="ws"
implementor="br.com.delphos.billing.servicos.WsImpl"
address="/ws"
wsdlLocation="wsdl/wsimpl.wsdl"
xmlns:tns="http://servicos.billing.delphos.com.br/" (referencia encontrada no cabeçalho de
"wsdl/wsimpl.wsdl" )
endpointName="tns:WsImplPort" (referencia encontrada na anotação @WebService de WsImpl.java )
serviceName="tns:WsImplService" (referencia encontrada na anotação @WebService de WsImpl.java )
>
<jaxws:features>
<bean class="org.apache.cxf.feature.LoggingFeature" />
</jaxws:features>
<!-- ***** -->
<jaxws:inInterceptors>
<bean class="org.apache.cxf.ws.security.wss4j.WSS4JInInterceptor">
<constructor-arg>
<map>
<entry key="user" value="testkey"/> (usuario definido na criação do certificado)
<entry key="action" value="Encrypt"/>
<entry key="passwordType" value="PasswordText"/>
<entry key="decryptionParts" value="{Content}{http://schemas.xmlsoap.org/soap/envelope/}Body"/>
<entry key="decryptionPropFile" value="serverKeystore.properties"/> (arquivo properties criado src)
<entry key="passwordCallbackRef">
```

```


<ref bean="myPasswordCallback"/> (Beans definido acima que aponta para a classe
ServerPasswordCallback que criamos anteriormente )
</entry>
</map>
</constructor-arg>
</bean>
</jaxws:inInterceptors>
<!-- ***** -->
</jaxws:endpoint>
</beans>

```

## RE-DEPLOY




## CRIANDO DO CLIENTE COM AUTENTICAÇÃO CXF

 **New Java Project**

**Create a Java Project**

Create a Java project in the workspace or in an external location.



Project name:

☒ Use default location

Location:

JRE

☐ Use an execution environment JRE:

☒ Use a project specific JRE:

☐ Use default JRE (currently 'jdk1.6.0\_30') [Configure JREs...](#)

Project layout


☐ Use project folder as root for sources and class files

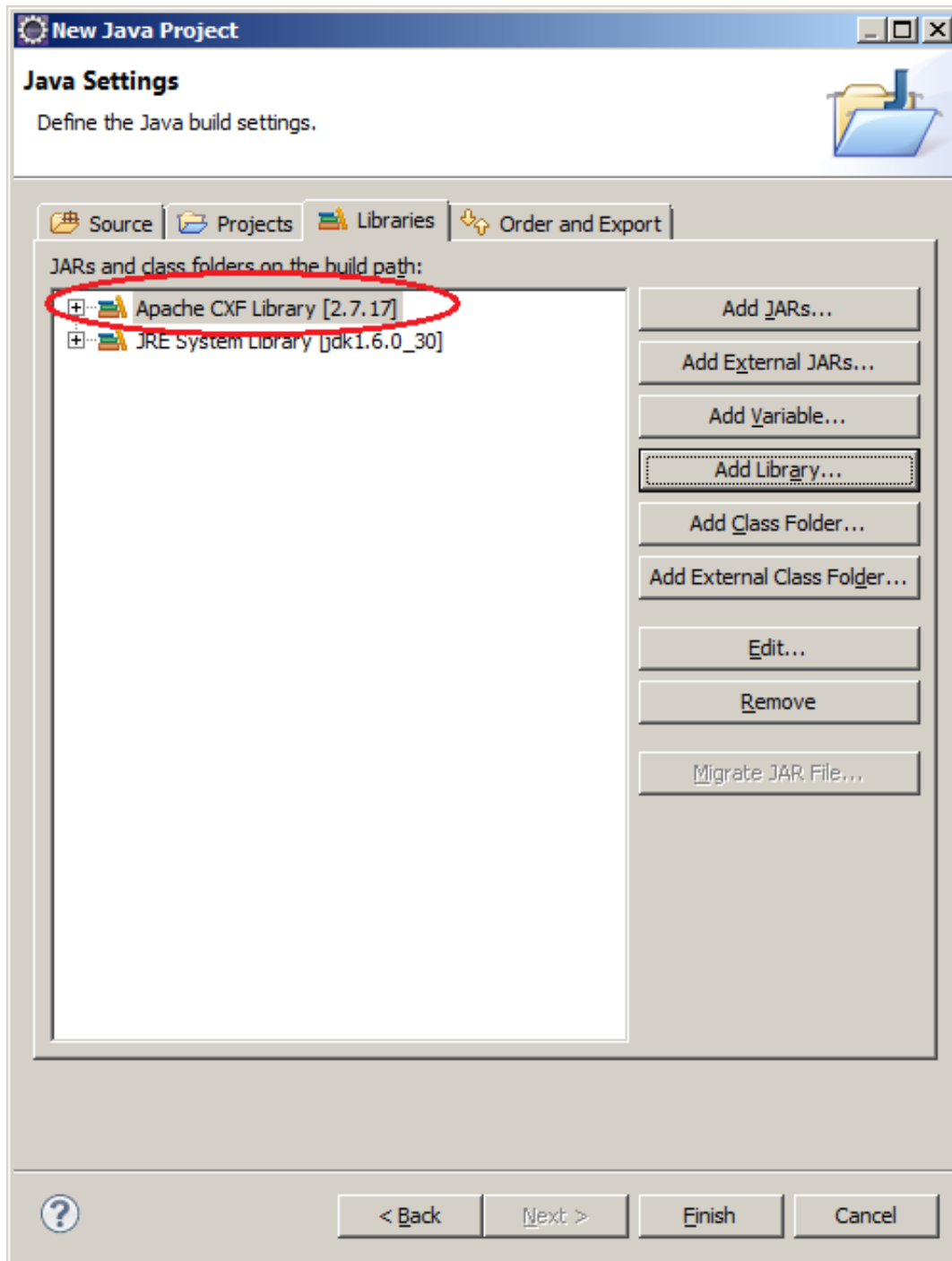
☒ Create separate folders for sources and class files [Configure default...](#)

Working sets

☐ Add project to working sets

Working sets:





## NO PROMPT EXECUTE

"c:\LibJava\apache-cxf-2.7.17\bin\wsdl2java.bat" -fe jaxws21 -autoNameResolution -p  
br.com.delphos.billing.services -d "C:\desenv\Workspaces\assurantBilling\sample-dbs-ws-cliente\src"  
<http://localhost:8080/sample-dbs-ws/services/ws?wsdl>

## CRIAR CLASSES

## ClientPasswordCallback

```
package br.com.delphos.billing.security;

import java.io.IOException;

import javax.security.auth.callback.Callback;
import javax.security.auth.callback.CallbackHandler;
import javax.security.auth.callback.UnsupportedCallbackException;

import org.apache.ws.security.WSPasswordCallback;

public class ClientPasswordCallback implements CallbackHandler {

    @Override
    public void handle(Callback[] callbacks) throws IOException,
        UnsupportedCallbackException {

        WSPasswordCallback pc = (WSPasswordCallback) callbacks[0];

        // set the password for our message.
        pc.setPassword("clientstorepass");

    }

}
```

## IniciarVendaCartaoCreditoClient

```
package br.com.delphos.billing.main;

import java.text.SimpleDateFormat;
import java.util.Date;
import java.util.HashMap;
import java.util.Map;

import org.apache.commons.lang.time.DateUtils;
import org.apache.cxf.frontend.ClientProxy;
import org.apache.cxf.interceptor.LoggingInInterceptor;
import org.apache.cxf.interceptor.LoggingOutInterceptor;
import org.apache.cxf.jaxws.JaxWsProxyFactoryBean;
import org.apache.cxf.ws.security.wss4j.WSS4JOutInterceptor;
import org.apache.ws.security.handler.WSHandlerConstants;

import br.com.delphos.billing.services.BillingException_Exception;
import br.com.delphos.billing.services.RetornoIniciarVendaCartaoCredito;
import br.com.delphos.billing.services.Ws;
import br.com.delphos.billing.security.ClientPasswordCallback;
```



```
import br.com.delphos.billing.util.GerarToken;
```

```
public class IniciarVendaCartaoCreditoClient {
```

```
    public static void main(String[] args) {
        // TODO Auto-generated method stub
```

```
        JaxWsProxyFactoryBean factory = new JaxWsProxyFactoryBean();
```

```
        // Use the URL defined in the soap address portion of the WSDL
        factory.setAddress("http://localhost:8080/sample-dbs-ws/services/ws");
```

```
        // Utilize the class which was auto-generated by Apache CXF wsdl2java
        factory.setServiceClass(Ws.class);
```

```
        Object client = factory.create();
```

```
        /*****SSL *****/
```

```
        // Adding Logging Interceptors
```

```
        LoggingOutInterceptor loggingOutInterceptor = new LoggingOutInterceptor();
        loggingOutInterceptor.setPrettyLogging(true);
        ClientProxy.getClient(client).getOutInterceptors().add(loggingOutInterceptor);
```

```
        LoggingInInterceptor loggingInInterceptor = new LoggingInInterceptor();
        loggingInInterceptor.setPrettyLogging(true);
        ClientProxy.getClient(client).getInInterceptors().add(loggingInInterceptor);
```

```
        // Set up WS-Security Encryption
```

```
        // Reference: https://ws.apache.org/wss4j/using.html
```

```
        Map<String, Object> props = new HashMap<String, Object>();
        props.put(WSHandlerConstants.USER, "testkey");
        props.put(WSHandlerConstants.ACTION, WSHandlerConstants.ENCRYPT);
        props.put(WSHandlerConstants.PASSWORD_TYPE, "PasswordText");
        props.put(WSHandlerConstants.ENC_PROP_FILE, "clientKeystore.properties");
        props.put(WSHandlerConstants.ENCRYPTION_PARTS, "{Content}
        {http://schemas.xmlsoap.org/soap/envelope/}Body");
        props.put(WSHandlerConstants.PW_CALLBACK_CLASS, ClientPasswordCallback.class.getName());
```

```
        WSS4JOutInterceptor wss4jOut = new WSS4JOutInterceptor(props);
```

```
        ClientProxy.getClient(client).getOutInterceptors().add(wss4jOut);
```

```
        try {
```

```
            RetornoIniciarVendaCartaoCredito iniciarVendaCartaoCredito = ((Ws)client).iniciarVendaCartaoCredito(
                GerarToken.encriptar(GerarToken.CHAVE_CLIENTE)
                ,"AIZ"
                ,"PYB"
```

```
, "BMS"
, "50434483346"
, "MACHADO DE ASSIS"
, "teste@teste.com"
, "21"
, "99588562"
, "21"
, "22730419"
, "TST-DPH-001"
, new SimpleDateFormat("dd/MM/yyyy").format(new Date())
, "01"
, "88523123822"
, "MACHADO DE ASSIS"
, "00000000000000001"
, new SimpleDateFormat("MM/yyyy").format( DateUtils.addYears((new Date()), 2))
, "111"
, "002"
, "10"
, "55416"
, new SimpleDateFormat("dd/MM/yyyy").format(new Date())
, new SimpleDateFormat("dd/MM/yyyy").format( DateUtils.addYears((new Date()), 1))
);
```

```
System.out.println("iniciarVendaCartaoCredito.getRetorno()="+iniciarVendaCartaoCredito.getRetorno());
```

```
} catch (SecurityException e) {

e.printStackTrace();

} catch (IllegalArgumentException e) {

e.printStackTrace();

} catch (BillingException_Exception e) {
// TODO Auto-generated catch block
e.printStackTrace();
}

}

}
```

## CancelarVendaClient

```
package br.com.delphos.billing.main;

import java.text.SimpleDateFormat;
import java.util.Date;
```

```
import java.util.HashMap;
import java.util.Map;

import org.apache.commons.lang.time.DateUtils;
import org.apache.cxf.frontend.ClientProxy;
import org.apache.cxf.interceptor.LoggingInInterceptor;
import org.apache.cxf.interceptor.LoggingOutInterceptor;
import org.apache.cxf.jaxws.JaxWsProxyFactoryBean;
import org.apache.cxf.ws.security.wss4j.WSS4JOutInterceptor;
import org.apache.ws.security.handler.WSHandlerConstants;

import br.com.delphos.billing.services.BillingException_Exception;
import br.com.delphos.billing.services.RetornoCancelarVenda;
import br.com.delphos.billing.services.RetornoIniciarVendaCartaoCredito;
import br.com.delphos.billing.services.Ws;
import br.com.delphos.billing.security.ClientPasswordCallback;
import br.com.delphos.billing.util.GerarToken;
```

```
public class CancelarVendaClient {
```

```
    public static void main(String[] args) {
        // TODO Auto-generated method stub
```

```
        JaxWsProxyFactoryBean factory = new JaxWsProxyFactoryBean();
```

```
        // Use the URL defined in the soap address portion of the WSDL
        factory.setAddress("http://localhost:8080/sample-dbs-ws/services/ws");
```

```
        // Utilize the class which was auto-generated by Apache CXF wsdl2java
        factory.setServiceClass(Ws.class);
```

```
        Object client = factory.create();
        /*****SSL *****/
```

```
        // Adding Logging Interceptors
        LoggingOutInterceptor loggingOutInterceptor = new LoggingOutInterceptor();
        loggingOutInterceptor.setPrettyLogging(true);
        ClientProxy.getClient(client).getOutInterceptors().add(loggingOutInterceptor);
```

```
        LoggingInInterceptor loggingInInterceptor = new LoggingInInterceptor();
        loggingInInterceptor.setPrettyLogging(true);
        ClientProxy.getClient(client).getInInterceptors().add(loggingInInterceptor);
```

```
        // Set up WS-Security Encryption
        // Reference: https://ws.apache.org/wss4j/using.html
        Map<String, Object> props = new HashMap<String, Object>();
        props.put(WSHandlerConstants.USER, "testkey");
        props.put(WSHandlerConstants.ACTION, WSHandlerConstants.ENCRYPT);
```

```
props.put(WSHandlerConstants.PASSWORD_TYPE, "PasswordText");
props.put(WSHandlerConstants.ENC_PROP_FILE, "clientKeystore.properties");
props.put(WSHandlerConstants.ENCRIPTION_PARTS, "{Content}
{http://schemas.xmlsoap.org/soap/envelope/}Body");
props.put(WSHandlerConstants.PW_CALLBACK_CLASS, ClientPasswordCallback.class.getName());
```

```
WSS4JOutInterceptor wss4jOut = new WSS4JOutInterceptor(props);
```

```
ClientProxy.getClient(client).getOutInterceptors().add(wss4jOut);
```

```
try {
```

```
RetornoCancelarVenda cancelarVenda = ((Ws)client).cancelarVenda(
"AIZ",
"PYB",
"BMS",
GerarToken.criptar(GerarToken.CHAVE_CLIENTE),
"98324985972",
"TST-DPH-001",
"001",
"-1",
"S"
);
System.out.println("cancelarVenda.getRetorno()="+cancelarVenda.getRetorno());
```

```
} catch (SecurityException e) {
```

```
e.printStackTrace();
```

```
} catch (IllegalArgumentException e) {
```

```
e.printStackTrace();
```

```
} catch (BillingException_Exception e) {
```

```
// TODO Auto-generated catch block
```

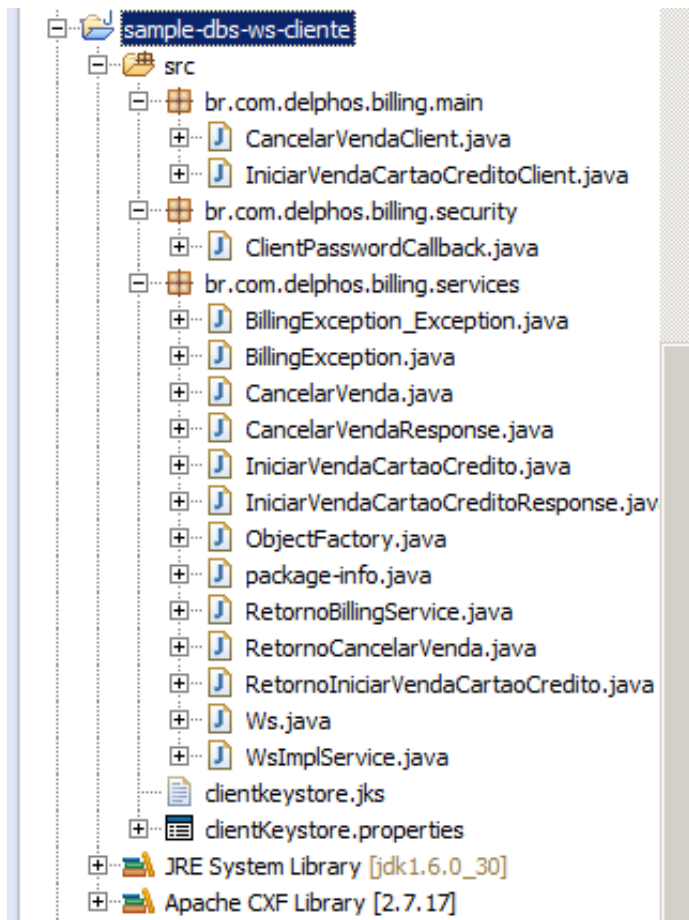
```
e.printStackTrace();
```

```
}
```

```
}
```

```
}
```

**OBS.: OS DEMAIS ARQUIVOS FORAM GERADOS PELO COMANDO EM PROMPT ANTERIORMENTE**



## EXECUTE COM "JAVA APLICATION" OS ARQUIVOS

### IniciarVendaCartaoCreditoClient

12/11/2015 09:38:13 org.apache.cxf.services.WsService.WsPort.Ws  
INFO: Inbound Message

ID: 1  
Response-Code: 200  
Encoding: UTF-8  
Content-Type: text/xml;charset=UTF-8  
Headers: {content-type=[text/xml;charset=UTF-8], Date=[Thu, 12 Nov 2015 11:38:13 GMT], Server=[Apache-Coyote/1.1], transfer-encoding=[chunked]}  
Payload: <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">  
<soap:Body>  
<ns2:iniciarVendaCartaoCreditoResponse xmlns:ns2="http://servicos.billing.delphos.com.br/">  
<return>  
<retorno>0</retorno>  
<codigoProduto>PYB</codigoProduto>  
<codigoVenda>TST-DPH-001</codigoVenda>  
<codigoVendaBilling>46</codigoVendaBilling>  
</return>  
</ns2:iniciarVendaCartaoCreditoResponse>

```
</soap:Body>
</soap:Envelope>
```

-----

```
iniciarVendaCartaoCredito.getRetorno()=0
```

## CancelarVendaClient

-----

```
12/11/2015 09:42:09 org.apache.cxf.services.WsService.WsPort.Ws
INFO: Inbound Message
```

-----

```
ID: 1
Response-Code: 200
Encoding: UTF-8
Content-Type: text/xml;charset=UTF-8
Headers: {content-type=[text/xml;charset=UTF-8], Date=[Thu, 12 Nov 2015 11:42:09 GMT], Server=
[Apache-Coyote/1.1], transfer-encoding=[chunked]}
Payload: <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
<soap:Body>
<ns2:cancelarVendaResponse xmlns:ns2="http://servicos.billing.delphos.com.br/">
<return>
<retorno>0</retorno>
<codigoProduto>PYB</codigoProduto>
<codigoVenda>TST-DPH-001</codigoVenda>
</return>
</ns2:cancelarVendaResponse>
</soap:Body>
</soap:Envelope>
```

-----

```
cancelarVenda.getRetorno()=0
```