Webservice Attachments

Example webservice-attachments can be browsed at https://github.com/apache/tomee/tree/master/examples/webservice-attachments

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AttachmentImpl

```java
package org.superbiz.attachment;

import javax.activation.DataHandler;
import javax.activation.DataSource;
import javax.ejb.Stateless;
import javax.jws.WebService;
import javax.xml.ws.BindingType;
import javax.xml.ws.soap.SOAPBinding;
import java.io.IOException;
import java.io.InputStream;

/**
 * This is an EJB 3 style pojo stateless session bean
 * Every stateless session bean implementation must be annotated
 * using the annotation @Stateless
 * This EJB has a single interface: {@link AttachmentWs} a webservice interface.
 */
@Stateless
@WebService(
        portName = "AttachmentPort",
        serviceName = "AttachmentWsService",
        targetNamespace = "http://superbiz.org/wsdl",
        endpointInterface = "org.superbiz.attachment.AttachmentWs")
@BindingType(value = SOAPBinding.SOAP12HTTP_MTOM_BINDING)
public class AttachmentImpl implements AttachmentWs {

    public String stringFromBytes(byte[] data) {
        return new String(data);
    }

    public String stringFromDataSource(DataSource source) {

        try {
            InputStream inStr = source.getInputStream();
            int size = inStr.available();
            byte[] data = new byte[size];
            inStr.read(data);
            inStr.close();
            return new String(data);
        } catch (IOException e) {
```

```
            e.printStackTrace();
        }
        return "";
    }

    public String stringFromDataHandler(DataHandler handler) {

        try {
            return (String) handler.getContent();
        } catch (IOException e) {
            e.printStackTrace();
        }
        return "";
    }
}
```

AttachmentWs

```
package org.superbiz.attachment;

import javax.activation.DataHandler;
import javax.jws.WebService;

/**
 * This is an EJB 3 webservice interface to send attachments throughout SAOP.
 */
@WebService(targetNamespace = "http://superbiz.org/wsdl")
public interface AttachmentWs {

    public String stringFromBytes(byte[] data);

    // Not working at the moment with SUN saaj provider and CXF
    //public String stringFromDataSource(DataSource source);

    public String stringFromDataHandler(DataHandler handler);
}
```

ejb-jar.xml

```
<ejb-jar/>
```

AttachmentTest

```
package org.superbiz.attachment;
```

```java
import junit.framework.TestCase;

import javax.activation.DataHandler;
import javax.activation.DataSource;
import javax.mail.util.ByteArrayDataSource;
import javax.naming.Context;
import javax.naming.InitialContext;
import javax.xml.namespace.QName;
import javax.xml.ws.BindingProvider;
import javax.xml.ws.Service;
import javax.xml.ws.soap.SOAPBinding;
import java.net.URL;
import java.util.Properties;

public class AttachmentTest extends TestCase {

    //START SNIPPET: setup
    private InitialContext initialContext;

    protected void setUp() throws Exception {

        Properties properties = new Properties();
        properties.setProperty(Context.INITIAL_CONTEXT_FACTORY,
"org.apache.openejb.core.LocalInitialContextFactory");
        properties.setProperty("openejb.embedded.remotable", "true");

        initialContext = new InitialContext(properties);
    }
    //END SNIPPET: setup

    /**
     * Create a webservice client using wsdl url
     *
     * @throws Exception
     */
    //START SNIPPET: webservice
    public void testAttachmentViaWsInterface() throws Exception {
        Service service = Service.create(
                new URL("http://127.0.0.1:4204/AttachmentImpl?wsdl"),
                new QName("http://superbiz.org/wsdl", "AttachmentWsService"));
        assertNotNull(service);

        AttachmentWs ws = service.getPort(AttachmentWs.class);

        // retrieve the SOAPBinding
        SOAPBinding binding = (SOAPBinding) ((BindingProvider) ws).getBinding();
        binding.setMTOMEnabled(true);

        String request = "tsztelak@gmail.com";
```

```
        // Byte array
        String response = ws.stringFromBytes(request.getBytes());
        assertEquals(request, response);

        // Data Source
        DataSource source = new ByteArrayDataSource(request.getBytes(), "text/plain;
charset=UTF-8");

        // not yet supported !
//        response = ws.stringFromDataSource(source);
//        assertEquals(request, response);

        // Data Handler
        response = ws.stringFromDataHandler(new DataHandler(source));
        assertEquals(request, response);
    }
    //END SNIPPET: webservice
}
```

Running

```
-------------------------------------------------------
 T E S T S
-------------------------------------------------------
Running org.superbiz.attachment.AttachmentTest
Apache OpenEJB 4.0.0-beta-1    build: 20111002-04:06
http://tomee.apache.org/
INFO - openejb.home = /Users/dblevins/examples/webservice-attachments
INFO - openejb.base = /Users/dblevins/examples/webservice-attachments
INFO - Configuring Service(id=Default Security Service, type=SecurityService,
provider-id=Default Security Service)
INFO - Configuring Service(id=Default Transaction Manager, type=TransactionManager,
provider-id=Default Transaction Manager)
INFO - Found EjbModule in classpath: /Users/dblevins/examples/webservice-
attachments/target/classes
INFO - Beginning load: /Users/dblevins/examples/webservice-attachments/target/classes
INFO - Configuring enterprise application: /Users/dblevins/examples/webservice-
attachments/classpath.ear
INFO - Configuring Service(id=Default Stateless Container, type=Container, provider-
id=Default Stateless Container)
INFO - Auto-creating a container for bean AttachmentImpl: Container(type=STATELESS,
id=Default Stateless Container)
INFO - Enterprise application "/Users/dblevins/examples/webservice-
attachments/classpath.ear" loaded.
INFO - Assembling app: /Users/dblevins/examples/webservice-attachments/classpath.ear
INFO - Created Ejb(deployment-id=AttachmentImpl, ejb-name=AttachmentImpl,
container=Default Stateless Container)
INFO - Started Ejb(deployment-id=AttachmentImpl, ejb-name=AttachmentImpl,
```

```
container=Default Stateless Container)
INFO - Deployed Application(path=/Users/dblevins/examples/webservice-
attachments/classpath.ear)
INFO - Initializing network services
INFO - Creating ServerService(id=httpejbd)
INFO - Creating ServerService(id=cxf)
INFO - Creating ServerService(id=admin)
INFO - Creating ServerService(id=ejbd)
INFO - Creating ServerService(id=ejbds)
INFO - Initializing network services
  ** Starting Services **
  NAME               IP              PORT
  httpejbd           127.0.0.1       4204
  admin thread       127.0.0.1       4200
  ejbd               127.0.0.1       4201
  ejbd               127.0.0.1       4203
-------
Ready!
Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 3.034 sec

Results :

Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
```