

Java WebService Authentication Techniques:

Axis 1.4:

Adding Authentication Create a file called Auth.java

```
public class Auth extends SOAPHeaderElement
{
public Auth(String namespace, String
localPart)
{
super(namespace, localPart);
}

protected void outputImpl(SerializationContext context) throws Exception
{ context.startElement(new QName(namespaceURI, name), attributes);
ArrayList children = super.getChildren();
if (children != null)
{
for (Iterator it = children.iterator(); it.hasNext(); )
{
((MessageElement)it.next()).output(context);
}
}
context.endElement(); }

public static Auth setAuthHeader(String user, String pwd)
{ try {
Auth authHeader = new Auth("", "AuthenticationInfo");

MessageElement msgElem1 = new MessageElement("", "userName");
//msgElem1.addTextNode("WebService-Reliability2");
msgElem1.addTextNode(user);
authHeader.addChildElement(msgElem1);
```

Java Webservices : Authentication of WSI security

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```
MessageElement msgElem2 = new MessageElement("", "password");
//msgElem2.addTextNode("remedy");
msgElem2.addTextNode(pwd);
authHeader.addChildElement(msgElem2);

// Uncomment these sections if you need to send these login
//parameters to the AR Web Service

// MessageElement msgElem3 = new MessageElement("", "authentication");

// msgElem3.addTextNode("ARSystem");
// authHeader.addChildElement(msgElem3);

// MessageElement msgElem4 = new MessageElement("", "Locale");
// msgElem4.addTextNode("enUS");
// authHeader.addChildElement(msgElem4);

// MessageElement msgElem4 = new MessageElement("", "timeZone");
// msgElem4.addTextNode("enUS");
// authHeader.addChildElement(msgElem4);

return authHeader;
}
catch (SOAPException e) {
e.printStackTrace();
}

return null;
}

}
```

Now open the Stub generated file and add following lines after createCall if

```
(super.cachedEndpoint == null) {
    throw new org.apache.axis.NoEndPointException();
}
org.apache.axis.client.Call _call = createCall();

Auth aihdr =
    Auth.setAuthHeader(user,pwd);
    _call.addHeader(aihdr);
```

Axis 2.x:

□ CXF:

```
CredentialsManager mgr =  
BusFactory.getDefaultBus().getExtension(CredentialsManager.class);  
    OutCredential cred =  
mgr.createOutCredential(CredentialType.USERNAME_PASSWORD, userId, password);  
    OutCredentialsMap map = new OutCredentialsMap();  
    map.get(SecurityProtocolType.SOAP).add(cred);  
    Map<String, Object> requestContext = impl.getRequestContext();  
    requestContext.put(OutCredentialsMap.class.getName(), map);
```
