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June 3, 2015 By Abhisek Jana — Leave a Comment (Edit)

How to write Java WebService Client using SAAJ API?



We often need a SOAP WebService Client and we might have just a sample request in hand with the endpoint or in case you need a generic webservice client then writing WebService Client using SAAJ API is a very easy way to invoke a WebService.

The method takes the URL endpoint and the request xml as the input and the return string would be the response from the WebService. In case of any error the exception will be thrown from the SAAJ API.

```
response = "";
                try {
                        SOAPMessage request = createSOAPMessage(strSOAPRequest);
                        SOAPConnectionFactory soapConnFactory =
SOAPConnectionFactory
                                         .newInstance();
                        connection = soapConnFactory.createConnection();
                        SOAPMessage reply = connection.call(request, destination);
                        response = getSOAPResponse(reply);
                } catch (javax.xml.soap.SOAPException e) {
                        e.printStackTrace();
                        throw e;
                } catch (IOException e) {
                        e.printStackTrace();
                        throw e;
                } finally {
                        if (connection != null)
                                try {
                                         connection.close();
                                 } catch (javax.xml.soap.SOAPException e) {
                                         e.printStackTrace();
                                }
                return response;
        }
```

We are creating a SOAPMessage here by passing the String request. You can add custom HTTPHeader here like HTTP Basic Authentication etc.

This method would write the response to a ByteArrayOutputStream will be be returned back as a String.

```
private java.lang.String getSOAPResponse(SOAPMessage reply)
                throws SOAPException, IOException {
        ByteArrayOutputStream os = new ByteArrayOutputStream();
        String strSOAPResponse = "";
        reply.writeTo(os);
        strSOAPResponse = new String(os.toByteArray());
        return strSOAPResponse;
}
```

In case the Web Servivce is hosted on secured HTTP (HTTPS), you need to add the certificate to the Application Server. If you are using stand alone program the add the following lines:

```
System.setProperty("com.ibm.ssl.performURLHostNameVerification", "true");
System.setProperty("javax.net.ssl.trustStore","key.jks");
System.setProperty("javax.net.ssl.trustStorePassword", "password");
System.setProperty("javax.net.ssl.trustStoreType","jks");
```

If you are using IBM JDK, add the following

System.setProperty("java.protocol.handler.pkgs","com.ibm.net.ssl.internal.www.protocol"); Security.addProvider(new com.ibm.jsse.IBMJSSEProvider());

If you are using SUN/Oracle JDK, add the following

System.setProperty("java.protocol.handler.pkgs","com.sun.net.ssl.internal.www.protocol"); Security.addProvider(new com.sun.net.ssl.internal.ssl.Provider());

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