

SOAP with Harbour

On <http://www.service-repository.com/> you can find some free SOAP clients for testing.

Take the weather service <http://www.service-repository.com/service/overview/1132083200>

Download the WSDL from <http://wsf.cdyne.com/WeatherWS/Weather.asmx?WSDL>

Make a new project in soapUI and load the downloaded weather.asmx.

We look at "GetCityForecastByZIP" and let soapUI show you the Request formulation:

```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
xmlns:weat="http://ws.cdyne.com/WeatherWS/">
  <soap:Header/>
  <soap:Body>
    <weat:GetCityForecastByZIP>
      <---- optional ---->
      <weat:ZIP>?</weat:ZIP>
    </weat:GetCityForecastByZIP>
  </soap:Body>
</soap:Envelope>
```

To get a real working answer from weather.com, you have to eliminate the <!--optional--> statement and set a test ZIP:

```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
xmlns:weat="http://ws.cdyne.com/WeatherWS/">
  <soap:Header/>
  <soap:Body>
    <weat:GetCityForecastByZIP>
      <weat:ZIP>12345</weat:ZIP>
    </weat:GetCityForecastByZIP>
  </soap:Body>
</soap:Envelope>
```

If you click on the > (Go) button you get a real answer from weather.com.

Now look at the bottom of soapUI. There you find "http log". Let soapUI show you what the program has effectively done by sending the request at weather.com and what effectively came back:

```
Tue Sep 11 22:13:00 CEST 2012:DEBUG:>> "POST /WeatherWS/Weather.asmx HTTP/1.1[r][n]"
Tue Sep 11 22:13:00 CEST 2012:DEBUG:>> "Connection: close[r][n]"
Tue Sep 11 22:13:00 CEST 2012:DEBUG:>> "Accept-Encoding: gzip,deflate[r][n]"
Tue Sep 11 22:13:00 CEST 2012:DEBUG:>> "Content-Type: application/soap+xml; charset=UTF-8; action='http://ws.cdyne.com/WeatherWS/GetCityForecastByZIP'[r][n]"
Tue Sep 11 22:13:00 CEST 2012:DEBUG:>> "User-Agent: Jakarta Commons-HttpClient/3.1[r][n]"
Tue Sep 11 22:13:00 CEST 2012:DEBUG:>> "Host: wsf.cdyne.com[r][n]"
Tue Sep 11 22:13:00 CEST 2012:DEBUG:>> "Content-Length: 290[r][n]"
Tue Sep 11 22:13:00 CEST 2012:DEBUG:>> "[r][n]"
Tue Sep 11 22:13:00 CEST 2012:DEBUG:>> "<soap:Envelope
xmlns:soap='http://www.w3.org/2003/05/soap-envelope'
xmlns:weat='http://ws.cdyne.com/WeatherWS/'>[r][n]"
```

```
Tue Sep 11 22:13:00 CEST 2012:DEBUG:>> " <soap:Header/>[\r][\n]"
Tue Sep 11 22:13:00 CEST 2012:DEBUG:>> " <soap:Body>[\r][\n]"
Tue Sep 11 22:13:00 CEST 2012:DEBUG:>> " <weat:GetCityForecastByZIP>[\r][\n]"
Tue Sep 11 22:13:00 CEST 2012:DEBUG:>> " <weat:ZIP>12345</weat:ZIP>[\r][\n]"
Tue Sep 11 22:13:00 CEST 2012:DEBUG:>> " </weat:GetCityForecastByZIP>[\r][\n]"
Tue Sep 11 22:13:00 CEST 2012:DEBUG:>> " </soap:Body>[\r][\n]"
Tue Sep 11 22:13:00 CEST 2012:DEBUG:>> "</soap:Envelope>"
```

Now you can see how the header has to look like.