Exercise 5

Debugging SOAP flows by setting TCPMON as an HTTP Proxy

Prior Knowledge

Exercises 3 and 4 – creating a JAXWS Service and CXF Client.

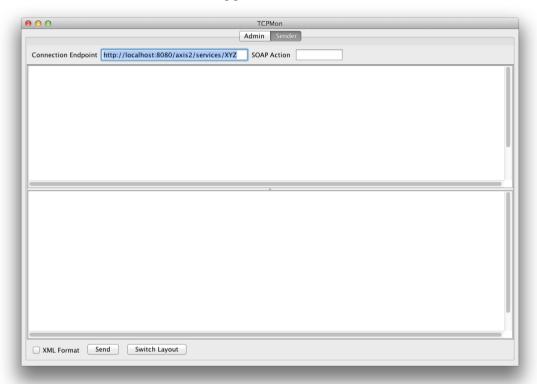
Objectives

Learn to run TCPMON and configure your client to call via the client.

Software Requirements

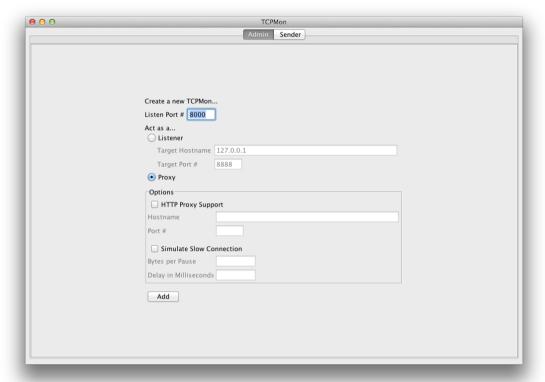
- Java Development Kit 7
- Tomcat 7.0.57 or later
- Eclipse JEE workbench Kepler
- Apache CXF 2.7.13 or later
- Service running from Exercise 3, Client from Exercise 4

- 1. You should have topmon in the VM.
- 2. cd ~/servers/tcpmon-1.0-bin/build
- 3. ./tcpmon.sh
- 4. You should see a screen like this appear:



5. Now click on **Admin**

6. Enter 8000 as the listen port, Click on the Proxy button.



- 7. Click Add
- 8. Now select the new tab **Port 8000** that appears.
- 9. Change one of your clients to include the following lines which will make it use the Proxy:

First add the following imports to your client.

```
import org.apache.cxf.endpoint.Client;
import org.apache.cxf.frontend.ClientProxy;
import org.apache.cxf.transport.http.HTTPConduit;
import org.apache.cxf.transports.http.configuration.HTTPClientPolicy;
```

Now find the **port** object and just after it is initialized add:

```
Client client = ClientProxy.getClient(port);

HTTPConduit http = (HTTPConduit) client.getConduit();

HTTPClientPolicy httpClientPolicy = new HTTPClientPolicy();

httpClientPolicy.setProxyServer("localhost");

httpClientPolicy.setProxyServerPort(8000);

http.setClient(httpClientPolicy);
```

This could also be set in an XML config file, but it is simpler for now to use Java. Now re-run your client and look at the trace in TCPMON. You might want to put it into XML mode.

The screenshot below is a rough approximation but based on a different client and server than you are currently using.

