

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

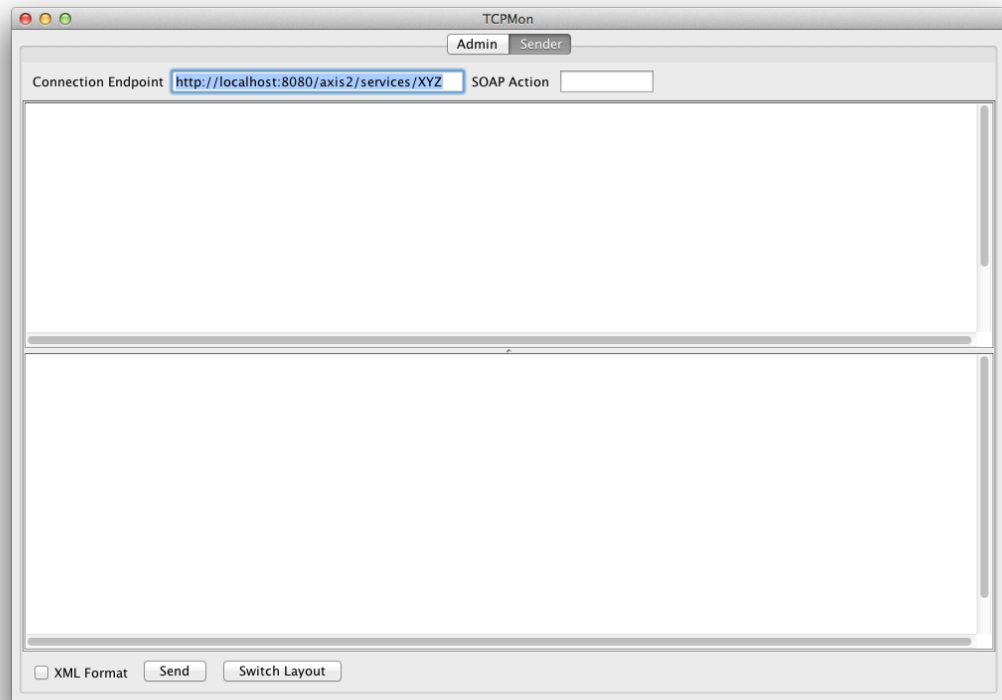
Learn to run TCPMON and configure your client to call via the client.

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



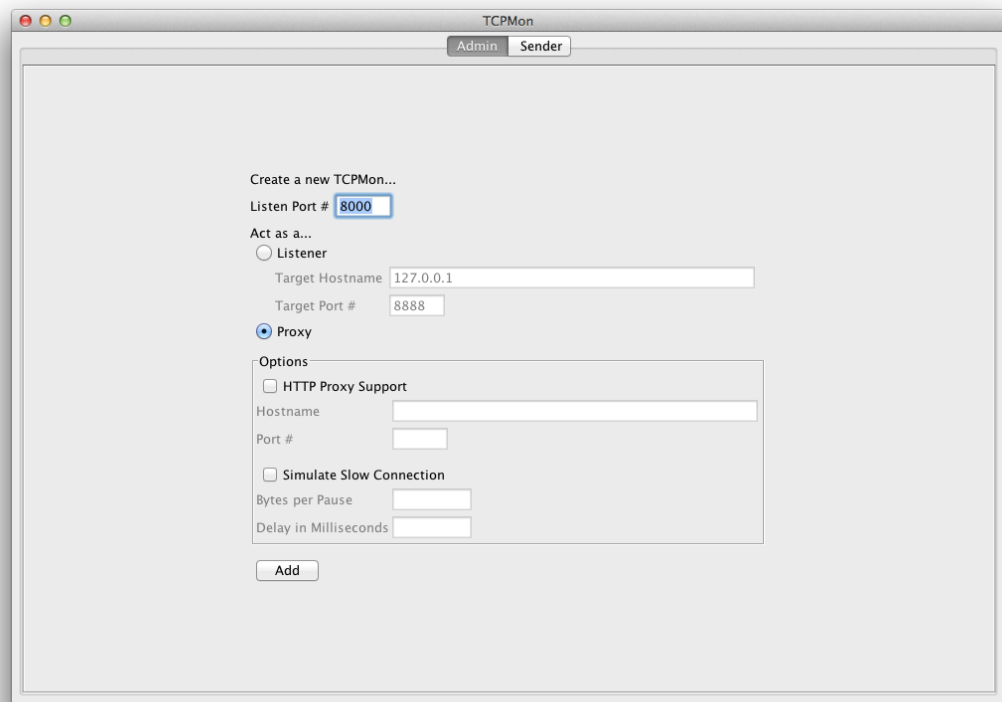
1. You should have tcpmon in the VM.
2. `cd ~/servers/tcpmon-1.0-bin/build`
3. `./tcpmon.sh`
4. You should see a screen like this appear:



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.

