

Sensor Event Service

How to get started

Identify your SES URL

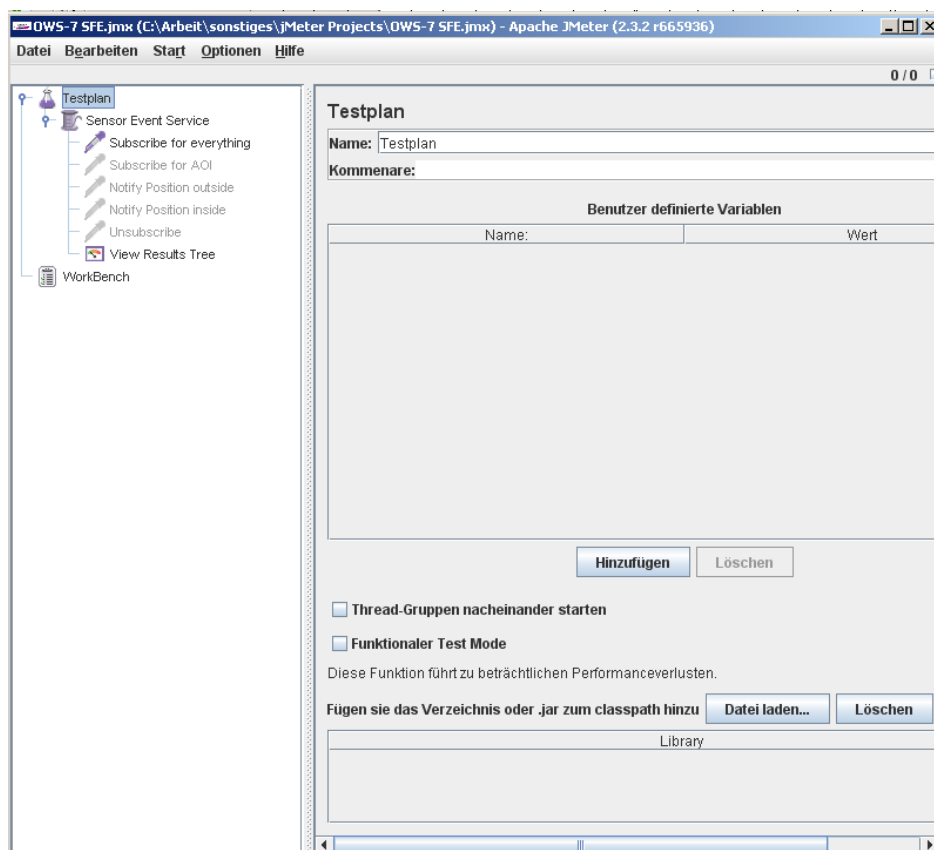
At first you need to know the URL of your SES installation. If you have correctly installed the SES you can find it in the SES config file (<TOMCAT-HOME>\webapps\ses-main-3.0-SNAPSHOT\WEB-INF\classes\sesconfig\ses_config.properties). It should look like this:
<http://your.tomcatser.ver:8080/ses-main-3.0-SNAPSHOT/services/SesPortType>

Get and install JMeter

At first you need JMeter. That is a small program that allows you to send (SOAP) requests. You can download it here: <http://jakarta.apache.org/jmeter/index.html>

Load jmx file

Load the provided jmx file into JMeter. It should now look like the this (sorry for german figures):



In order to work you have to insert the service URL two times in each request: in the JMeter URL field and in the wsa:To element of the SOAP header.

SOAP/XML-RPC Anfrage

Name:

Kommentare:

URL:

☐ **Sende SOAP Aktion:**

☐ **Benutze KeepAlive**

SOAP/XML-RPC Daten

```
<?xml version="1.0" encoding="UTF-8"?>
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope" xmlns:wsa="http://www.w3.org/2005/08/addressing"
xmlns:wsnt="http://docs.oasis-open.org/wsnt/b-2">
  <soap:Header>
    <wsa:To>http://your.tomcatser.ver.8080/ses-main-3.0-SNAPSHOT/services/SesPortType</wsa:To>
    <wsa:Action>http://docs.oasis-open.org/wsnt/bw-2/NotificationProducer/SubscribeRequest</wsa:Action>
    <wsa:MessageID>uuid:4e595160-185a-9b3c-3eb6-592c7c5b0c7a</wsa:MessageID>
    <wsa:From>
      <wsa:Address>http://www.w3.org/2005/08/addressing/role/anonymous</wsa:Address>
    </wsa:From>
  </soap:Header>
  <soap:Body>
    <wsnt:Subscribe>
      <wsnt:ConsumerReference>
        <wsa:Address>http://localhost:8082/</wsa:Address>
      </wsnt:ConsumerReference>
      <wsnt:Filter>
        <wsnt:MessageContent Dialect="http://www.w3.org/TR/1999/REC-xpath-19991116">*</wsnt:MessageContent>
      </wsnt:Filter>
    </wsnt:Subscribe>
  </soap:Body>
</soap:Envelope>
```

Start consumer

Now you need to start your local consumer. This is the program that shall receive the notifications. You can also use the PortListener program. This is a small java based program that listens on a port on your machine and writes all received requests into a text window.

Subscribe

Next you need to subscribe your consumer at the Event Service for notifications. Therefor you need to adjust the request that is available in the JMeter project. Click on the subscribe request. Then enter the address of your consumer into the „consumer reference“ field (see below).

OWS-7 SFE.jmx (C:\Arbeit\sonstiges\JMeter Projects\OWS-7 SFE.jmx) - Apache JMeter (2.3.2 r665936)

Datei Bearbeiten Start Optionen Hilfe

0 / 0

Testplan

- Sensor Event Service
 - Subscribe for everything
 - Subscribe for AOI
 - Notify Position outside
 - Notify Position inside
 - Unsubscribe
 - View Results Tree
- WorkBench

SOAP/XML-RPC Anfrage

Name:

Kommentare:

URL:

☐ **Sende SOAP Aktion:**

☐ **Benutze KeepAlive**

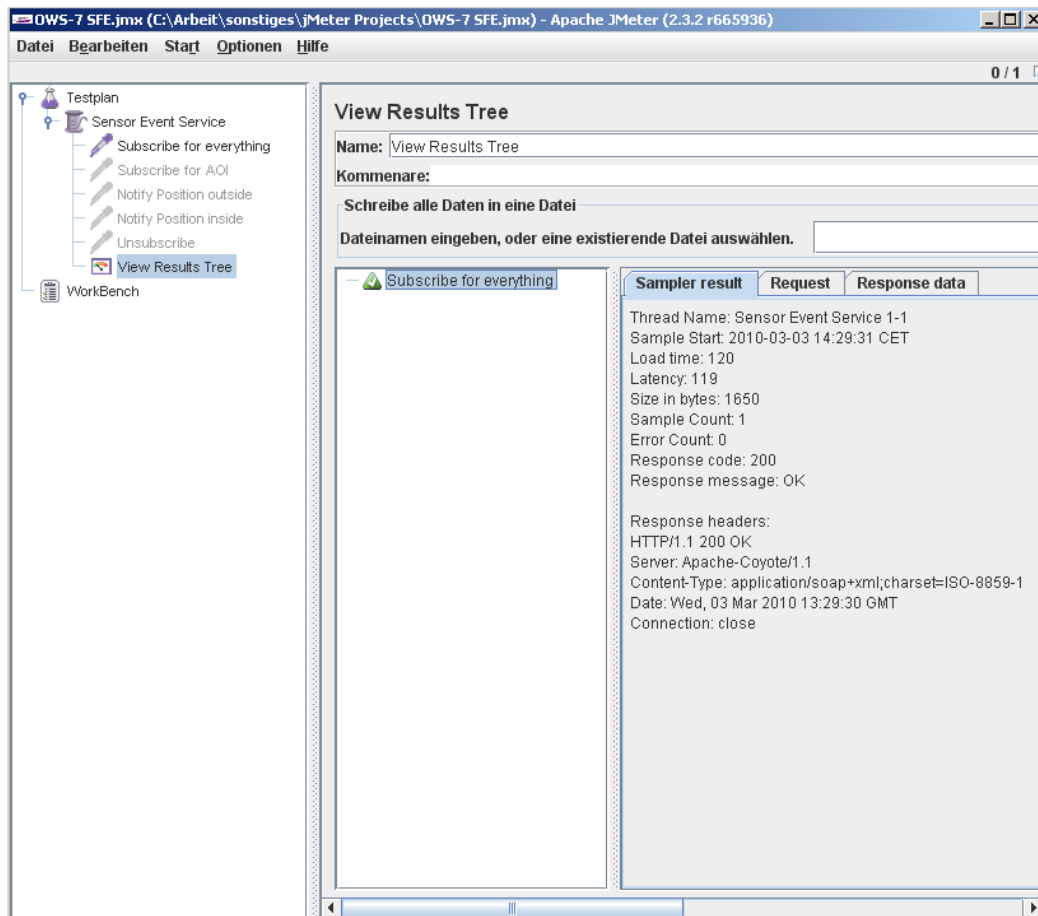
SOAP/XML-RPC Daten

```
<?xml version="1.0" encoding="UTF-8"?>
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
xmlns:wsa="http://www.w3.org/2005/08/addressing"
xmlns:wsnt="http://docs.oasis-open.org/wsnt/b-2">
  <soap:Header>
    <wsa:To>http://vtml.uni-muenster.de:8080/ses/services/SesPortType</wsa:To>
    <wsa:Action>http://docs.oasis-open.org/wsnt/bw-2/NotificationProducer/SubscribeRequest</wsa:Action>
    <wsa:MessageID>uuid:4e595160-185a-9b3c-3eb6-592c7c5b0c7a</wsa:MessageID>
    <wsa:From>
      <wsa:Address>http://www.w3.org/2005/08/addressing/role/anonymous</wsa:Address>
    </wsa:From>
  </soap:Header>
  <soap:Body>
    <wsnt:Subscribe>
      <wsnt:ConsumerReference>
        <wsa:Address>http://localhost:8082/</wsa:Address>
      </wsnt:ConsumerReference>
      <wsnt:Filter>
        <wsnt:MessageContent
Dialect="http://www.w3.org/TR/1999/REC-xpath-19991116">*</wsnt:MessageContent>
      </wsnt:Filter>
    </wsnt:Subscribe>
  </soap:Body>
</soap:Envelope>
```

Datenamen eingeben, oder eine existierende Datei auswählen.

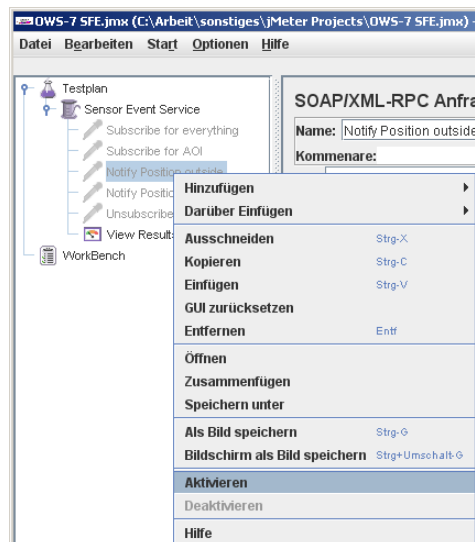
If you use the PortListener.jar you can leave it as it is. After that you need to start the request by pressing „CTRL + R“ or using the menu.

When you go to the „View Results Tree“ it should look like this:



Send a notification

Now you can send a notification to the event service. Therefore you have to deactivate the subscribe request and activate the notification via a right mouse click.



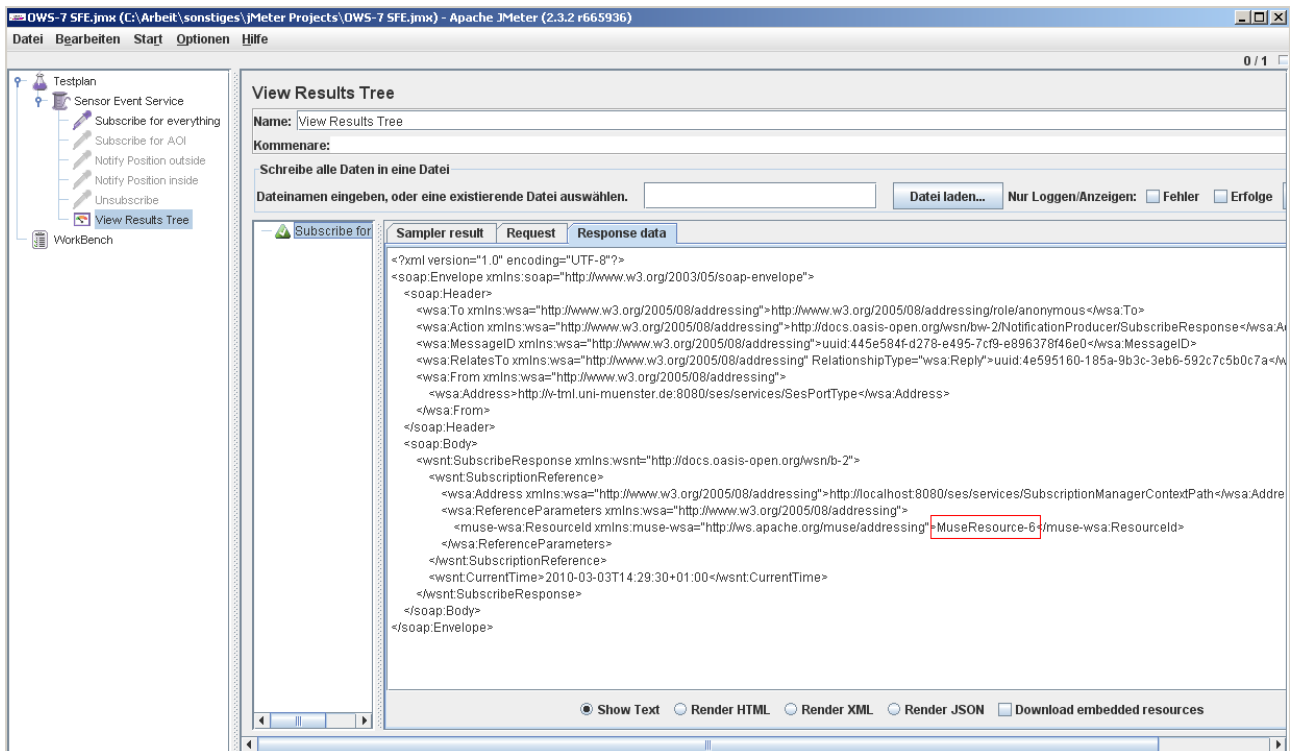
Now start the request. You should now receive a notification at your consumer.

Unsubscribe

Finally you have to unsubscribe if you do not wish to get further notifications. Therefore you need to activate the unsubscribe request and deactivate all others.

ATTENTION: The URL for unsubscribing has a different context path. You have to replace the „/SesPortType“ by „/SubscriptionManagerContextPath“ e.g.: <http://your.tomcatser.ver:8080/ses-main-3.0-SNAPSHOT/services/SubscriptionManagerContextPath>

Also you have to set your subscription resource ID. You can find this ID in the subscribe response via the „View Results Tree“.



You have to enter this ID into the unsubscribe request in the „ResourceId“ field and start the request.

