



Validation of service and data



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Agenda

- How can service and data be validated?
- Exercise: Validate OGC compliance - TEAM Engine with ETS WFS 2.0 on Docker
- Exercise: Run TEAM Engine with ETS WFS 2.0 to test your deegree instance
- Exercise: Run SoapUI to test your deegree instance

How can service and data be validated?

- OGC TEAM Engine
- GDI Testsuite
- INSPIRE Geoportal JRC Validator
- SoapUI

Exercise: Validate OGC compliance - TEAM Engine with ETS WFS 2.0 on Docker

- TEAM Engine
 - TEAM Engine (Test, Evaluation, And Measurement Engine) is an engine for testing web services and other resources.
 - <https://github.com/opengeospatial/teamengine>
- ETS WFS 2.0
 - Executable Test Suite for WFS 2.0
 - Can be executed on TEAM Engine
 - <https://github.com/opengeospatial/ets-wfs20/>

Running TEAM Engine on Docker

- Downloading the Docker image with TEAM Engine:
`> docker pull tfr42/teamengine`
- Running the Docker container with Apache Tomcat 8.0:
`> docker run -p 8088:8080 --name teamengine --rm tfr42/teamengine`
- Accessing TEAM engine with browser:
`http://localhost:8088/teamengine`

OGC TEAM Engine on Docker

- Base Image is Apache Tomcat with JRE 8
- Image extended with TEAM Engine 4.6 (release)
- ETS for WFS 2.0 is pre-installed (version 1.22)

Dockerfile for TEAM Engine

```
FROM tomcat:7.0-jre8

# set teamengine version
ENV TEAMENGINE_VERSION 4.6

# add teamengine webapp
ADD teamengine-web-${TEAMENGINE_VERSION}.war /root/
RUN cd /root/ && unzip -q teamengine-web-${TEAMENGINE_VERSION}.war -d /usr/local/tomcat/webapps/teamengine

# add common libs
ADD teamengine-web-${TEAMENGINE_VERSION}-common-libs.zip /root/
RUN cd /root/ && unzip -q teamengine-web-${TEAMENGINE_VERSION}-common-libs.zip -d /usr/local/tomcat/lib

# add teamengine console
ADD teamengine-console-${TEAMENGINE_VERSION}-base.zip /root/
RUN cd /root/ && unzip -q teamengine-console-${TEAMENGINE_VERSION}-base.zip -d /root/te_base

# set TE_BASE
ENV JAVA_OPTS="-Xms1024m -Xmx2048m -DTE_BASE=/root/te_base"

# set WFS 2.0 ETS version
ENV ETS_WFS_20_VERSION 1.22

# add ETS for WFS 2.0
ADD ets-wfs20-${ETS_WFS_20_VERSION}-ctl.zip /root/
RUN cd /root/ && unzip -q ets-wfs20-${ETS_WFS_20_VERSION}-ctl.zip -d /root/te_base/scripts
ADD ets-wfs20-${ETS_WFS_20_VERSION}-deps.zip /root/
RUN cd /root/ && unzip -q -o ets-wfs20-${ETS_WFS_20_VERSION}-deps.zip -d /usr/local/tomcat/webapps/teamengine/WEB-INF/lib

# run tomcat
CMD ["catalina.sh", "run"]
```

Building the Docker image

- Pull the fork from:
> `git clone https://github.com/tfr42/teamengine/`
- Switch to branch:
> `git checkout feature/addDockerConfig`
- Build the project:
> `mvn clean package`
- Build the docker image in „teamengine-docker“ with Maven:
> `mvn docker:build`
- or build the image with Docker:
> `docker build -t tfr42/teamengine .`
- More information available at:
<https://github.com/tfr42/teamengine/tree/feature/addDockerConfig/teamengine-docker>

Exercise: Run TEAM Engine with ETS WFS 2.0 to test your deegree instance

- Open TEAM Engine GUI, select ETS WFS 2.0 und run deegree instance against it.

Exercise: Run SoapUI to test your deegree instance

- See tutorial for instructions.

What we have learned

- You are familiar with different ways of validating service and data.
- You can setup and start a TEAM Engine with ETS WFS 2.0 on Docker to test the OGC compliance.

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