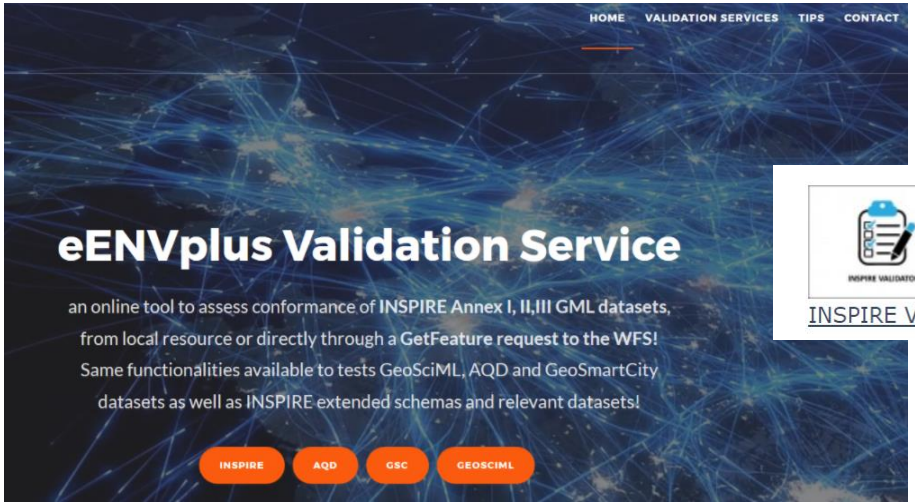
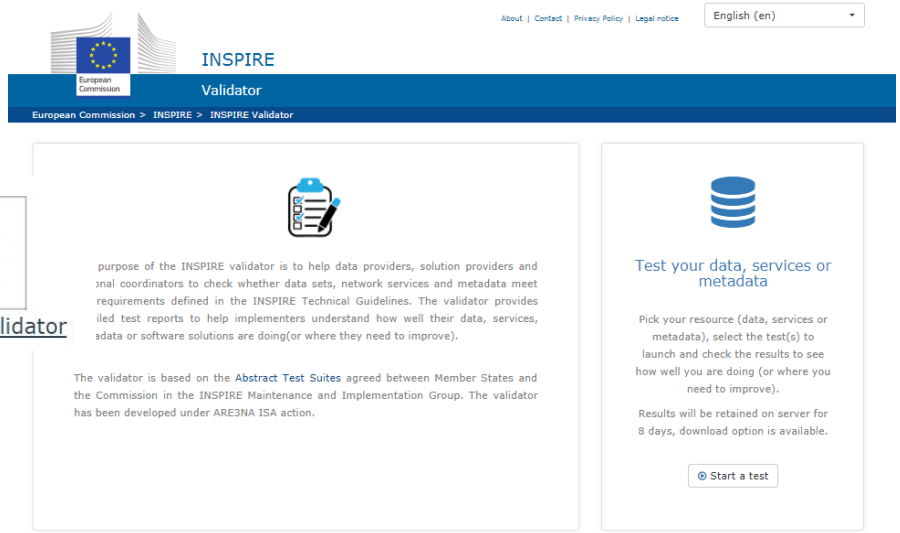


INSPIRE Validator



VALIDIERUNG HARMONISIERTER DATENSÄTZE

DI ROLAND GRILLMAYER

INSPIRE WORKSHOP ÖSTERREICH - 29. NOVEMBER 2017, WIEN

PERSPEKTIVEN FÜR UMWELT & GESELLSCHAFT umweltbundesamt

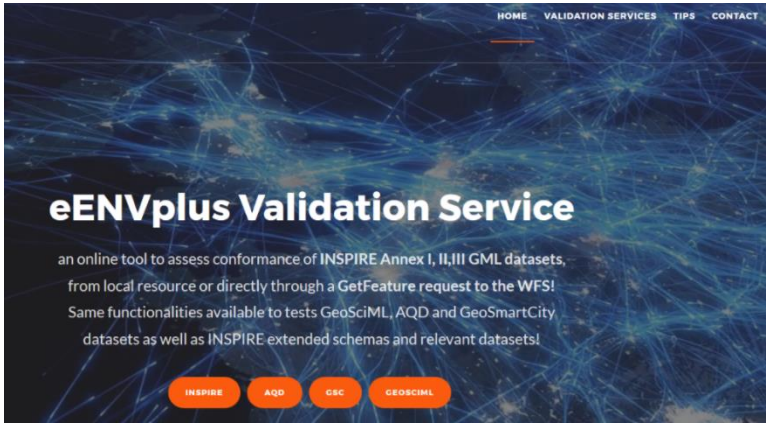
VORGEHENSWEISE VALIDIERUNG

- Was wird validiert?
  - *GML – Konformität (ISO-Konformität)*
  - *Validierung der wichtigsten Requirements der DS*

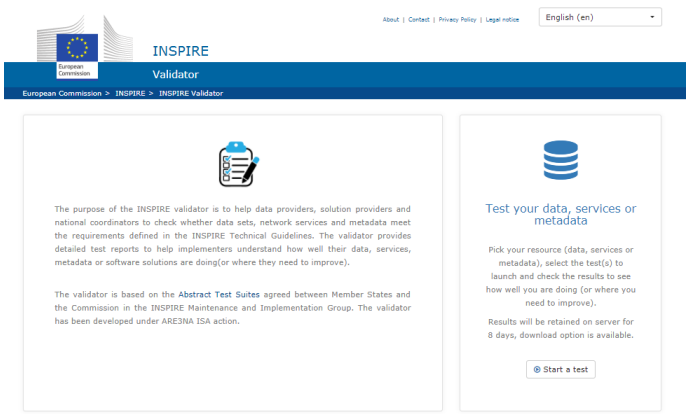
- Ziel der Validierung
  - *Sicherstellen der syntaktischen und semantischen (soweit vorhanden) Interoperabilität*
  - GML-Validierung
    - *Validierung der Geometrien*
    - *Konformität der GML-ID*
    - *……*
  - Requirements der DS
    - *Sicherstellen der syntaktischen Interoperabilität und soweit vorhanden semantischen Harmonisierung*
    - *Validierung des Encodings der Daten gegenüber den Applikationsschema*
    - *Räumliches Referenzsystem*
    - *Überprüfen der verwendeten Codelisten*
    - *……..*

GLIEDERUNG

- Validierungsportale INSPIRE Datenharmonisierung



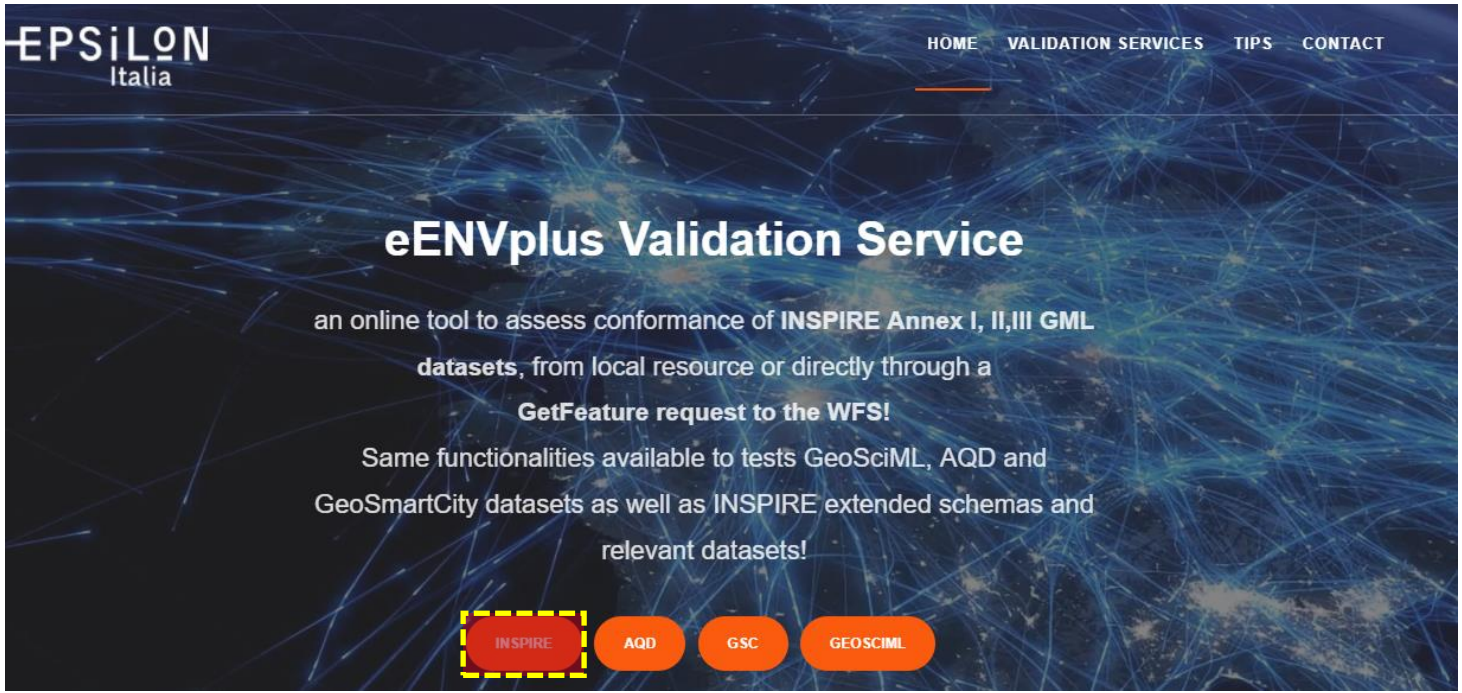
https://validation-service.inspire-helpdesk.eu/index.html
http://vs.inspire-helpdesk.eu:8081/teamengine/



http://inspire-sandbox.jrc.ec.europa.eu/etf-webapp/

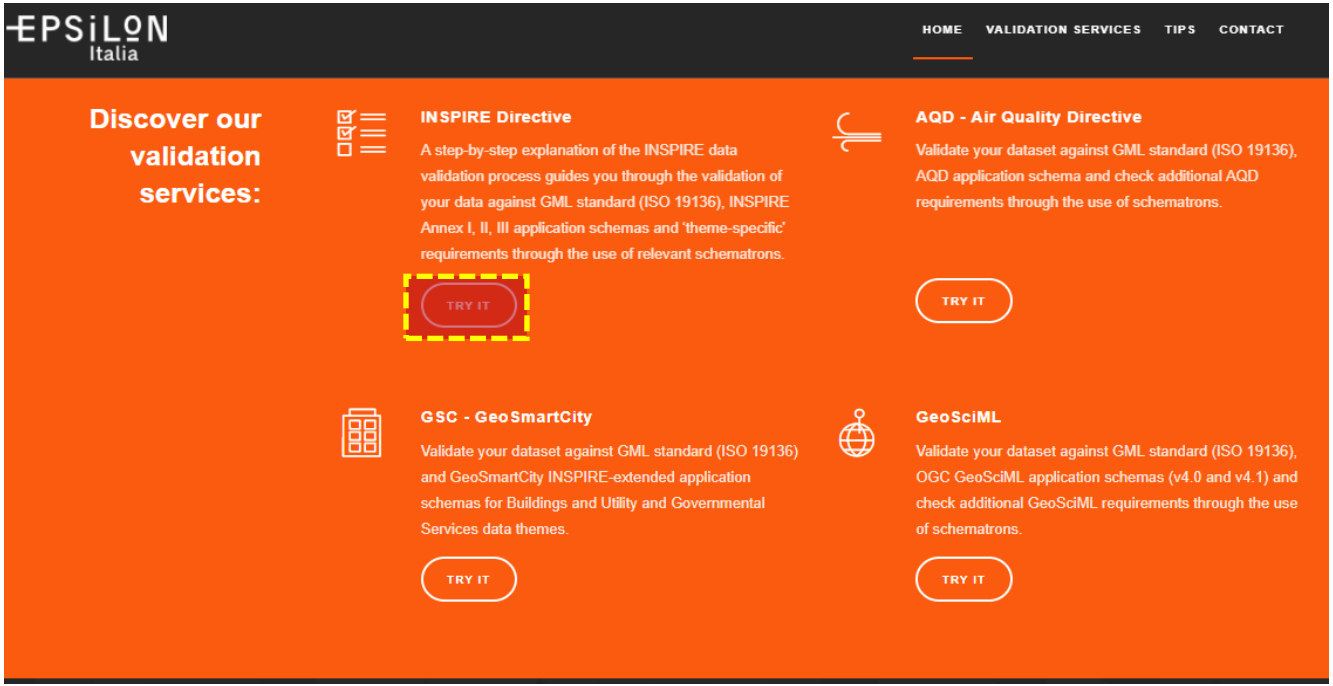
- Durchführen einer Validierung am Beispiel der PS
- Vergleich der Validierungsergebnisse aus beiden Validationen.

eENVplus VALIDATION SERVICE



https://validation-service.inspire-helpdesk.eu/index.html

eENVplus VALIDATION SERVICE



https://validation-service.inspire-helpdesk.eu/index.html

eENVplus VALIDATION SERVICE

The eENVplus Validation Service provides Executable Test Suites (ETS) implementing the Abstract Test Suites (ATS) which are included in the Annex A of the INSPIRE Data Specifications and contain a set of tests to be applied on a dataset to evaluate whether it fulfils the INSPIRE requirements.

ATS

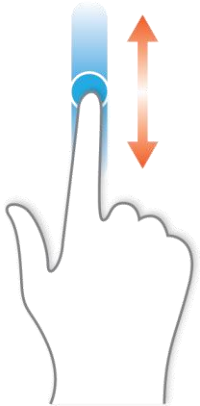
- Annex A - Part 1: includes tests aiming at assessing the conformity of GML datasets to "COMMISSION REGULATION (EU) No 1089/2010 of 23 November 2010 implementing Directive 2007/2/EC of the European Parliament and of the Council as regards interoperability of spatial datasets and services" and its successive amendment "COMMISSION REGULATION (EU) No 1253/2013 of 21 October 2013".

ETS

In order to execute abstract tests associated to Conformance Classes, an Executable Test Suite(ETS), containing a physical implementation of the abstract tests, has to be derived from the ATS.

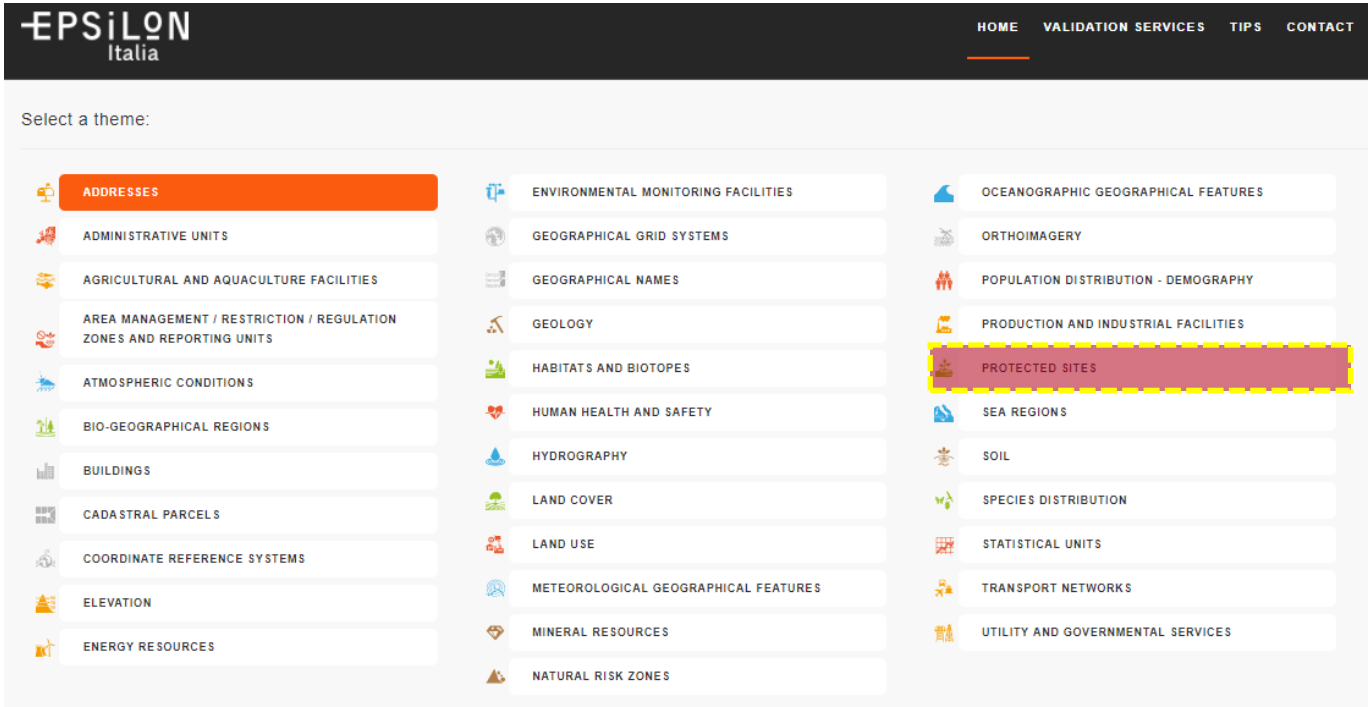
For those tests that cannot be automated the ETS contains guidelines to manual execution.

A single executable test can cover different abstract tests.



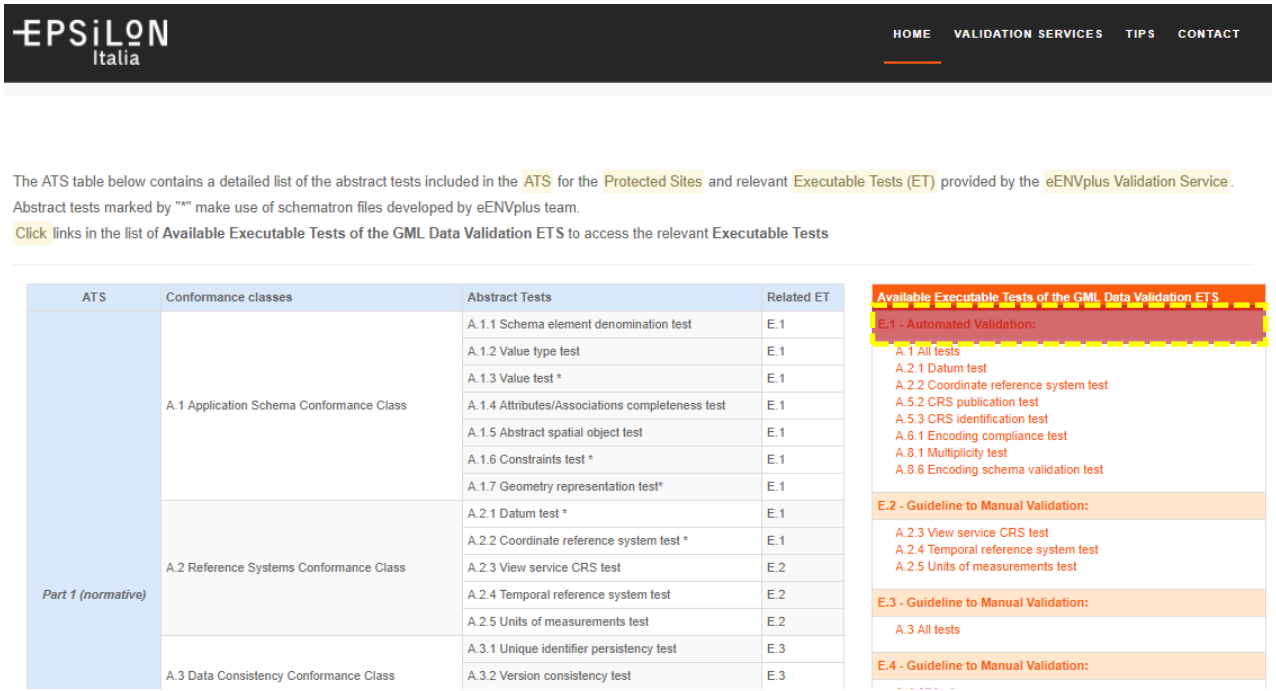
https://validation-service.inspire-helpdesk.eu/index.html

eENVplus VALIDATION SERVICE



https://validation-service.inspire-helpdesk.eu/index.html

eENVplus VALIDATION SERVICE



https://validation-service.inspire-helpdesk.eu/index.html

eENVplus VALIDATION SERVICE

EPSiLON Italia

HOME | VALIDATION SERVICES | TIPS | CONTACT

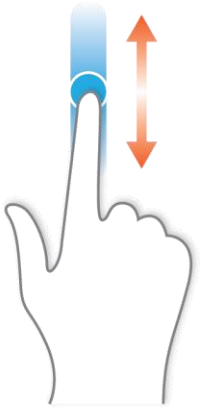
GML dataset files to be tested by means of E.1 can be uploaded from local or web resource as well as by means of WFS (GetFeature request).

Should eENVplus E.1 Test execute with no failures, after having specified PS schematron file,

1. Conformance to **A.1 - Application Schema Conformance Class** can be claimed
2. Coordinate Reference System tests - **A.2.1**, **A.2.2** , **A.5.2**, **A.5.3** - are successfully passed.
   Be aware that, to automate this test, an implementation choice was made to allow only identifiers referring to EPSG codes listed in **Table 3** of PS Data Specification - Section 6. (3)
3. Conformance to **A.6 - Data Delivery Conformance Class** can be claimed
   The use of GML-encoded files assures the required dataset encoding conformance to EN ISO 19118
4. Tests **A.8.1**, **A.8.6** are successfully passed.

A.1 Application Schema Conformance Class	A.1.1 Schema element denomination test
	A.1.2 Value type test
	A.1.3 Value test *
	A.1.4 Attributes/associations completeness test
	A.1.5 Abstract spatial object test
	A.1.6 Constraints test *
	A.1.7 Geometry representation test *
A.2 Reference Systems Conformance Class	A.2.1 Datum test *
	A.2.2 Coordinate reference system test *
A.5 Information Accessibility Conformance Class	A.5.2 CRS publication test *
	A.5.3 CRS identification test *
A.6 Data Delivery Conformance Class	A.6.1 Encoding compliance test
A.8 Technical Guideline Conformance Class	A.8.1 Multiplicity test
	A.8.6 Encoding schema validation test

Abstract tests covered by E.1



LOGIN to execute the E.1 Automated Validation Test

https://validation-service.inspire-helpdesk.eu/index.html

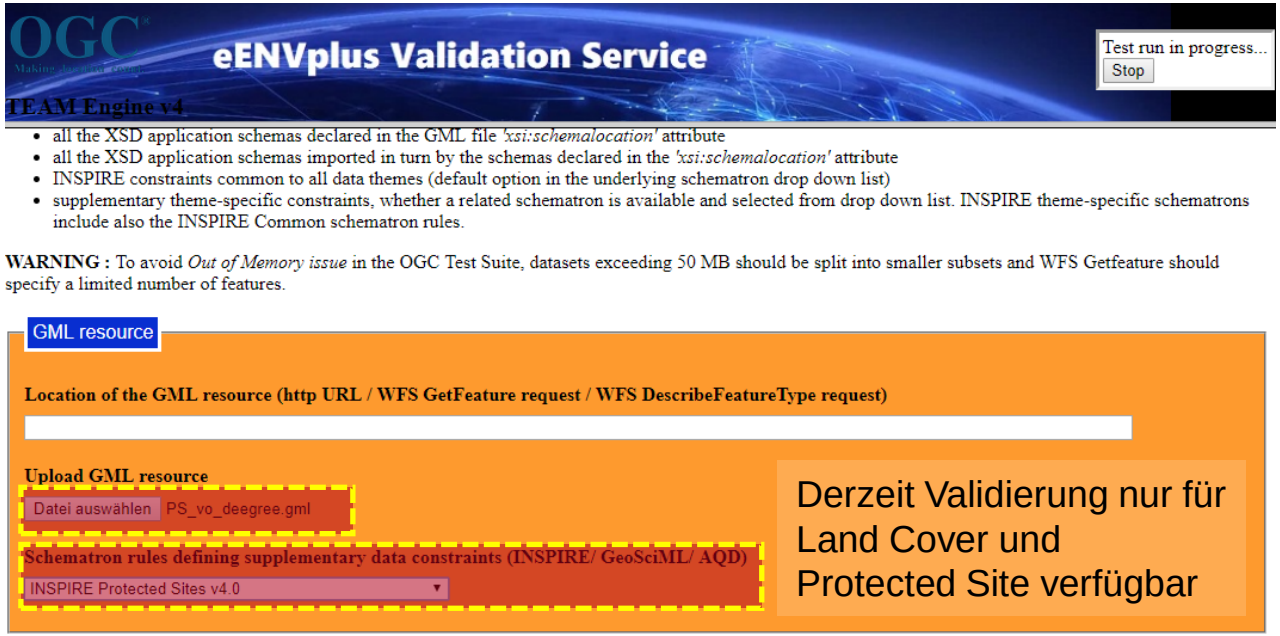
eENVplus VALIDATION SERVICE

http://vs.inspire-helpdesk.eu:8081/teamengine

eENVplus VALIDATION SERVICE

http://vs.inspire-helpdesk.eu:8081/teamengine

eENVplus VALIDATION SERVICE



Derzeit Validierung nur für Land Cover und Protected Site verfügbar

http://vs.inspire-helpdesk.eu:8081/teamengine

eENVplus VALIDATION SERVICE

Results for session s0008

Test Suite: GML 3.2 (ISO 19136:2007) Conformance Test Suite

Test tns:Main (View Details): Failed

Summary of results

Best Practice	Passed	Continue	Not Tested	Warning	Skipped	Failed	Failed (Inherited)
0	0	0	0	0	0	1	0

See the detailed test report.

Execute this session again | Delete this session | Download log Files

Sessions list

TEAM Engine 4.10

http://vs.inspire-helpdesk.eu:8081/teamengine

eENVplus VALIDATION SERVICE

http://vs.inspire-helpdesk.eu:8081/teamengine

eENVplus VALIDATION SERVICE

Results for session s0008

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See the detailed test report.

Execute this session again | Delete this session | Download log Files

Sessions list

TEAM Engine 4.10

http://vs.inspire-helpdesk.eu:8081/teamengine

eENVplus VALIDATION SERVICE

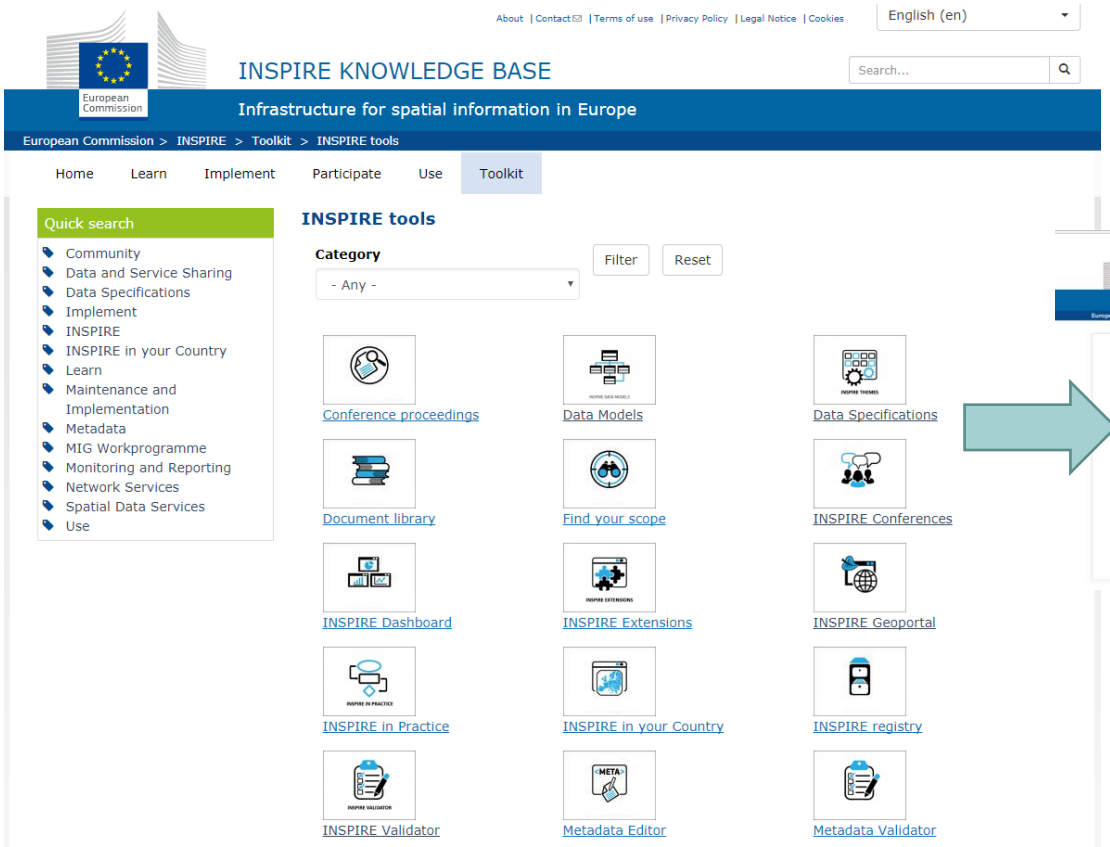
Log for test s0008

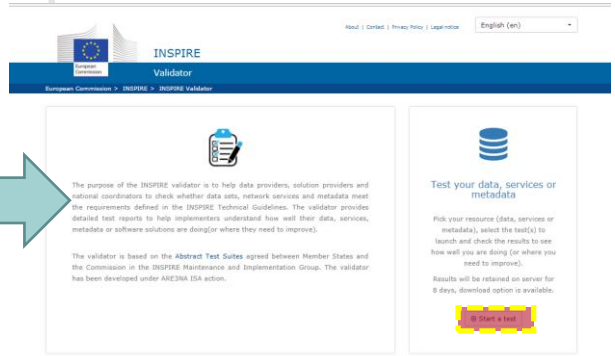
```
Test tns:Main type Mandatory default result Passed (s0008)

Assertion: The GML application schema or data set satisfies all
      relevant constraints.

Form d1e46_1:
   sch-uri=http://www.epsilon-italia.it/public/download/ProtectedSites_v4.0.xml
   gml-uri=
   gml-doc=

Message d1e258_1:
   Test suite: gml32-1.25
======== Test groups ========
All GML application schemas
    Passed: 7 | Failed: 0 | Skipped: 0
GML application schemas defining features and feature collections
    Passed: 2 | Failed: 0 | Skipped: 0
GML application schemas defining spatial geometries
    Passed: 2 | Failed: 0 | Skipped: 0
GML application schemas defining time
    Passed: 2 | Failed: 0 | Skipped: 0
GML application schemas defining spatial topologies
    Passed: 2 | Failed: 0 | Skipped: 0
GML Documents
    Passed: 8 | Failed: 1 | Skipped: 9


See detailed test report in the TE_BASE/users/kathischleidt/s0008/html/ directory.

Message d1e269_1:

Test method validSurfaceOrientation:
            Exterior boundary of surface with @gml:id='_1367fc27-e6b6-4f90-9fe1-bb978c2daf77' is not oriented CCW with respect to the up-normal.


Result: Failed
```

- Validierungsreport = Log-File Team-Engine
- Nicht genau nachvollziehbar was validiert wurde
- Validierungsergebnisse nicht ident mit etf-Validator !!!

http://vs.inspire-helpdesk.eu:8081/teamengine

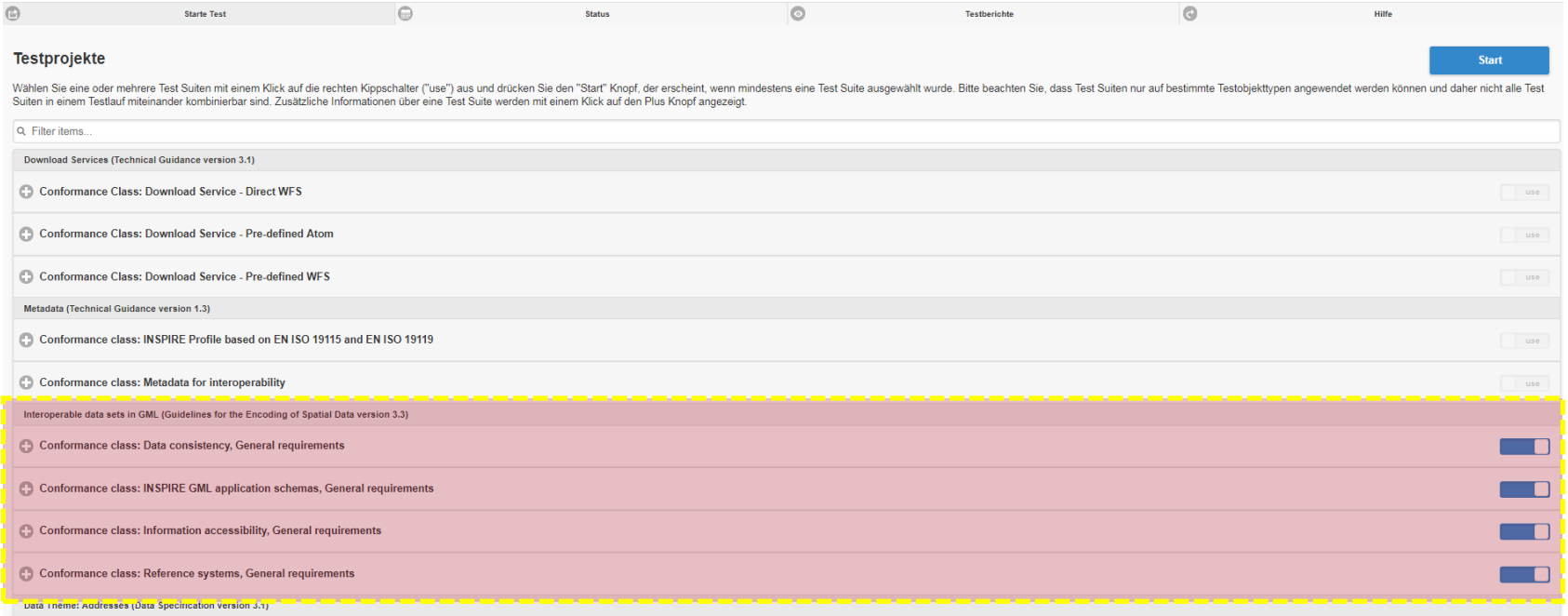
ETF-VALIDATION SERVICE

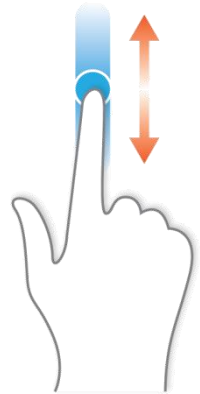




PERSPEKTIVEN FÜR UMWELT & GESELLSCHAFT umweltbundesamt

ETF-VALIDATION SERVICE

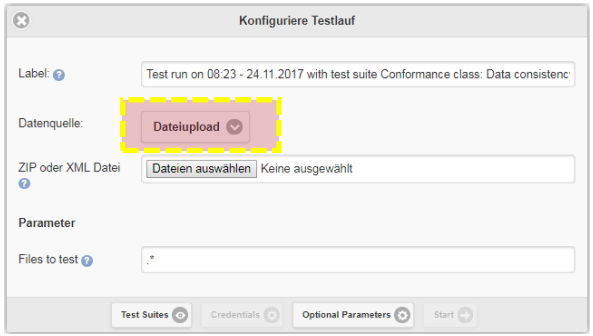




Conformance Classes zur Überprüfung der GML-Konformität

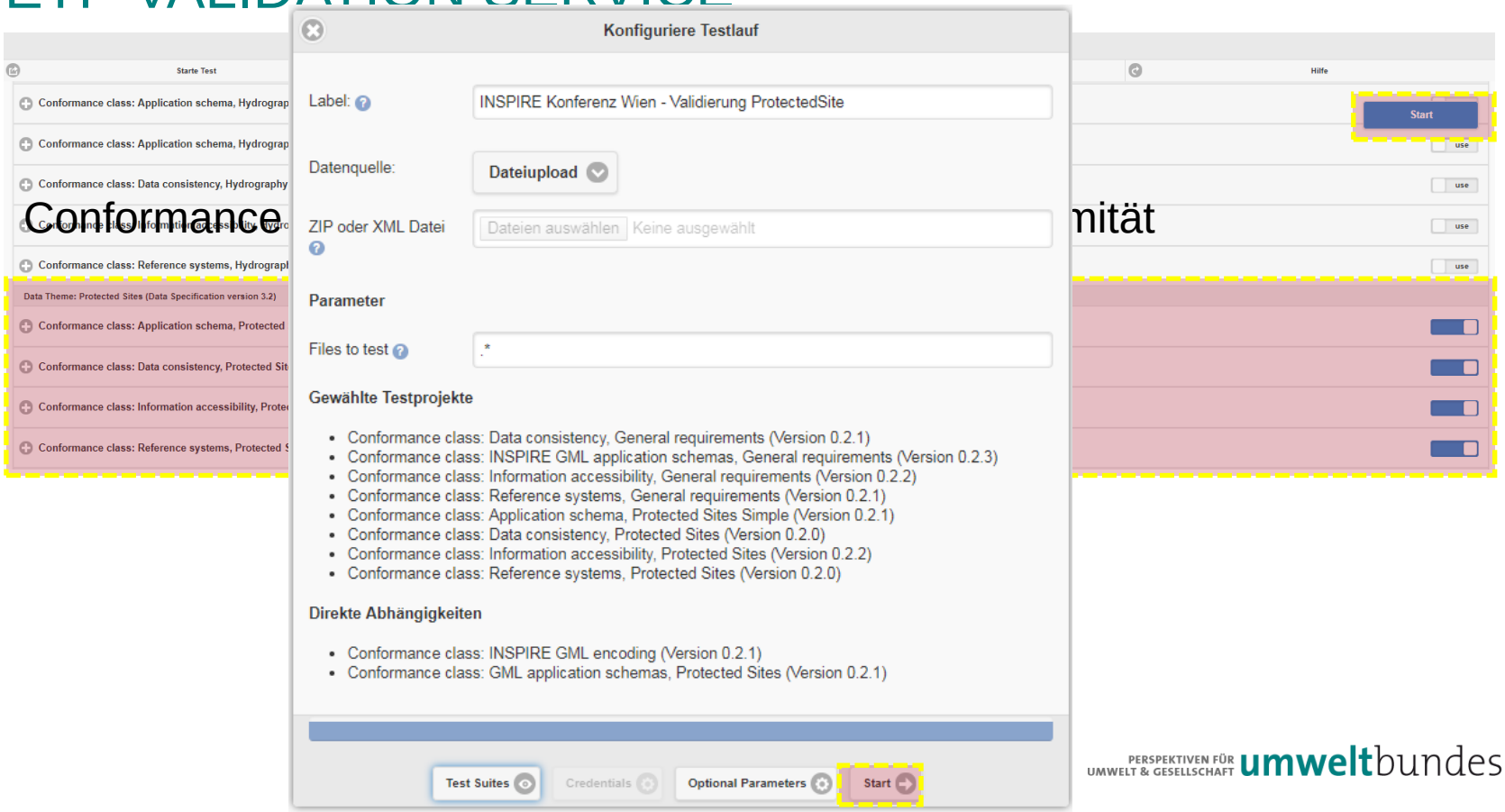
ETF-VALIDATION SERVICE

Conformance Classes zur Überprüfung der DS-Konformität



PERSPEKTIVEN FÜR UMWELT & GESELLSCHAFT umweltbundesamt

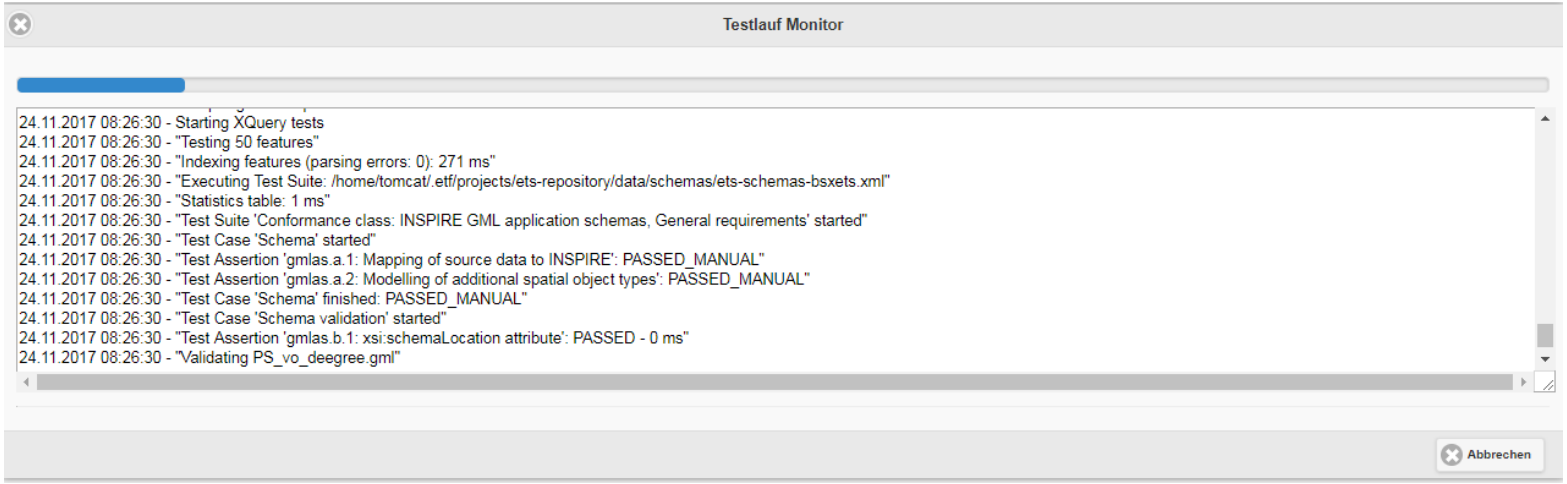
ETF-VALIDATION SERVICE



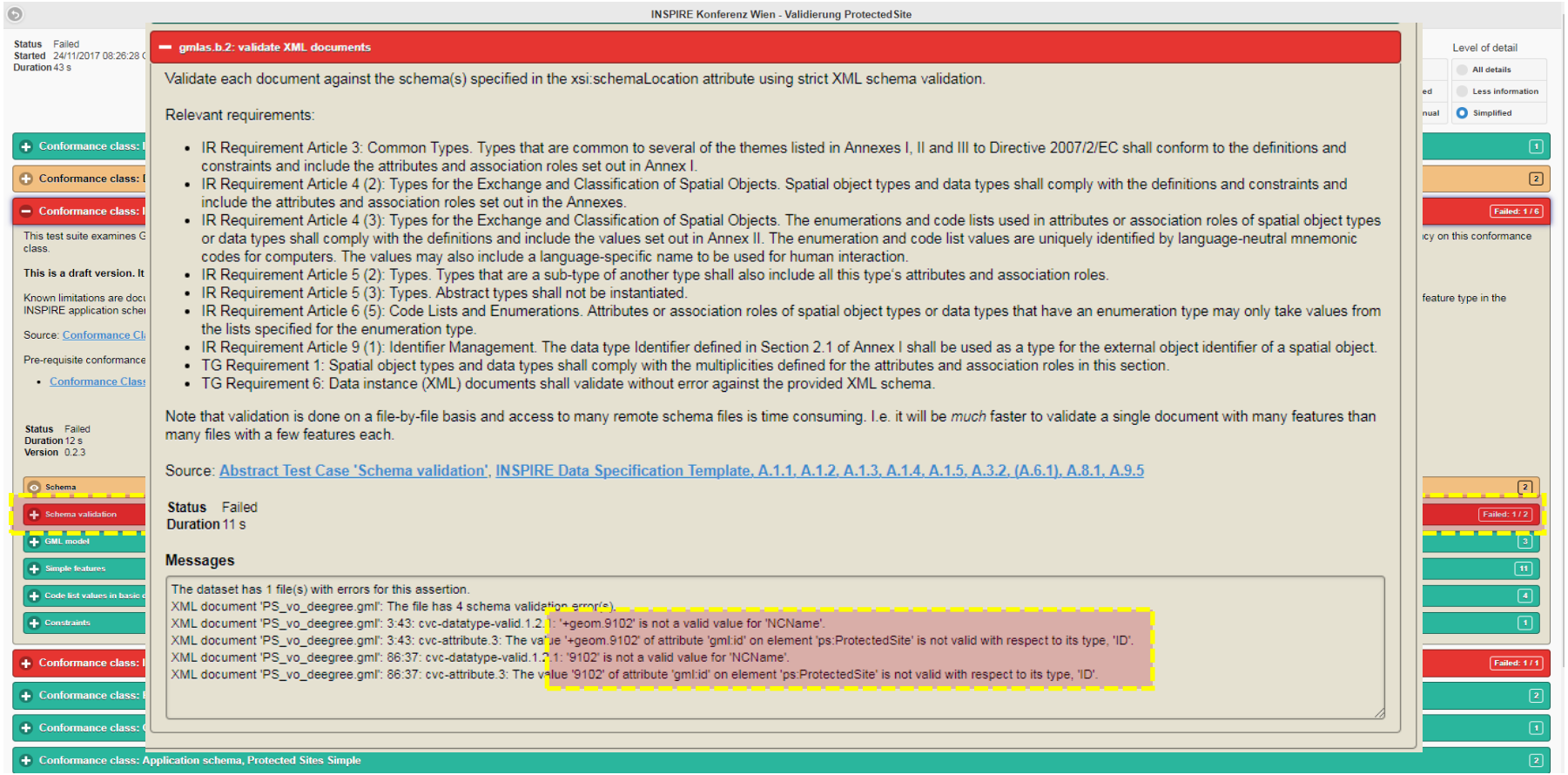
Conformance mität

PERSPEKTIVEN FÜR UMWELT & GESELLSCHAFT umweltbundesamt

ETF-VALIDATION SERVICE



ETF-VALIDATION SERVICE



KONKLUSION

- ETF derzeit einzig sinnvolles Validierungsframework
  - Bisher problemlose Validierung
  - Ergebnisse sind nachvollziehbar
  - Getestet mit großen Datensätzen
  - Skalierbarkeit ist gegeben
- Fragen für *2016.3: Validation and conformity testing*
  - Wozu verschiedene Validierungsplattformen?
  - Unterschiedliche Ergebnisse da ATS nicht immer 100% in gleichen ETS enden bzw. unterschiedliche Bibliotheken zum Einsatz kommen
    - Beispiel: Nicht valide Geometrie bei eENVplus-Validator vs. valide Geometrie in ETF-Validator
    - Validierung der GML Datei in PostGIS und QGIS → ebenfalls valide SF Geometrie

INSPIRE

Validator

The purpose of the INSPIRE validator is to help data providers, solution providers and national coordinators to check whether data sets, network services and metadata meet the requirements defined in the INSPIRE Technical Guidelines. The validator provides detailed test reports to help implementers understand how well their data, services, metadata or software solutions are doing(or where they need to improve).

The validator is based on the Abstract Test Suites agreed between Member States and the Commission in the INSPIRE Maintenance and Implementation [illegible]. The validator has been developed under ARE3NA ISA action.

Test your data, services or metadata

Pick your resource (data, services or metadata), select the test(s) to launch and check the results to see how well you are doing (or where you need to improve).

Results will be retained on server for 8 days, download option is available.

Start a test

KONTAKT & INFORMATION

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Umweltbundesamt
www.umweltbundesamt.at

PERSPEKTIVEN FÜR UMWELT & GESELLSCHAFT umweltbundesamt