

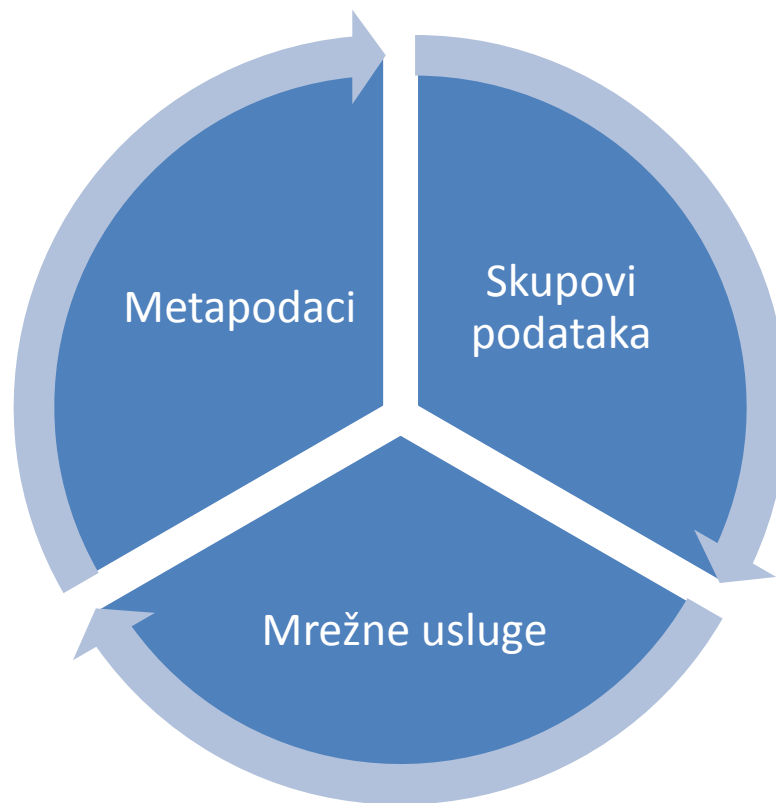


17. NIPP radionica Interoperabilnost prostornih podataka, INSPIRE Validator



Iva Gašparović
Državna geodetska uprava
*Nacionalna kontaktna točka za
NIPP/INSPIRE*

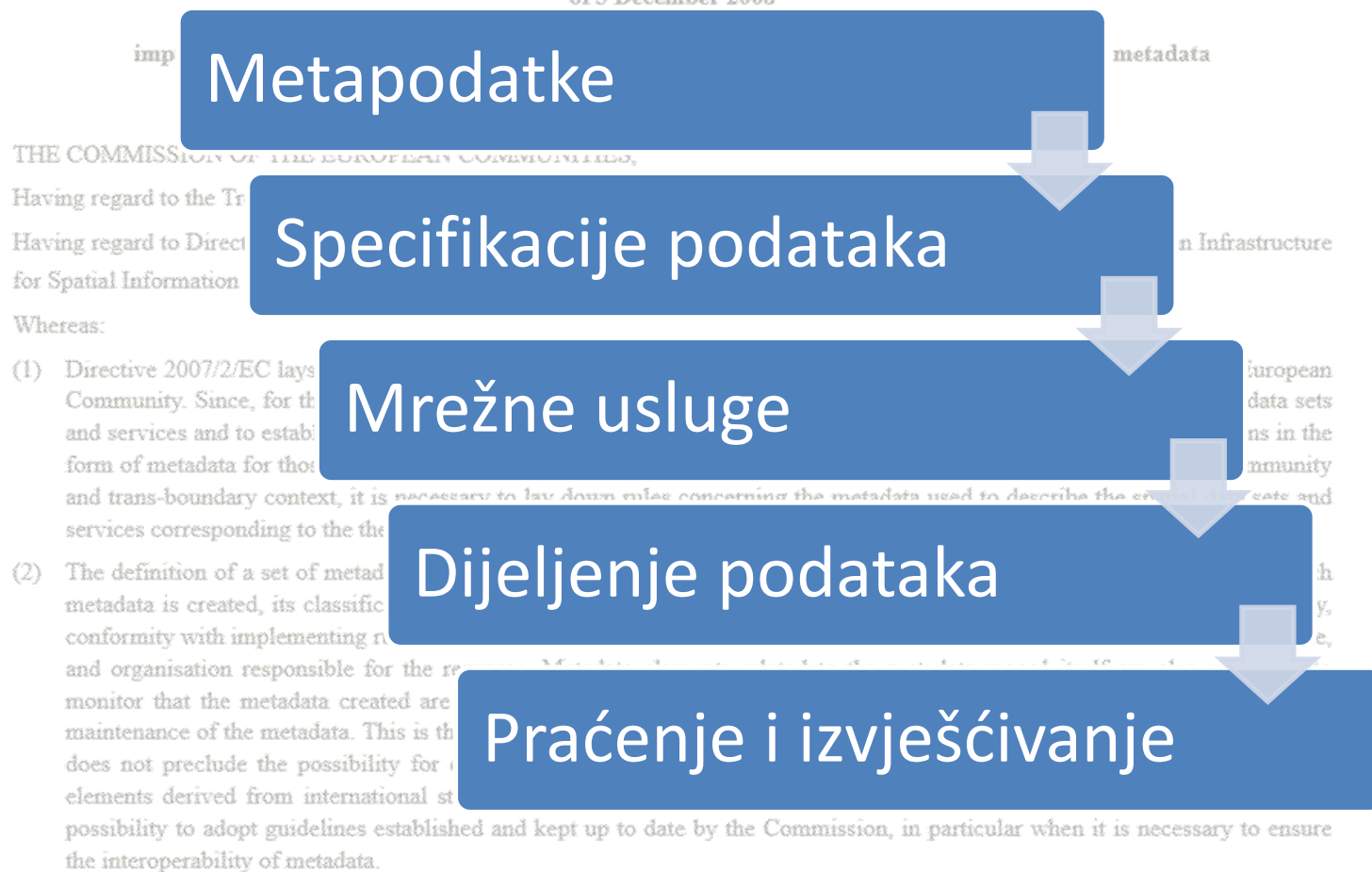
Interoperabilnost izvora prostornih podataka



Što države članice moraju implementirati?

COMMISSION REGULATION (EC) No 1205/2008

of 3 December 2008



Interoperabilnost metapodataka

- Metapodaci izvora prostornih podataka moraju biti potpuni i sadržavati sve elemente:
- Adresa izvora = URL mrežne usluge – GetCapabilities zahtjev npr.

<http://rgi.dgu.hr/geoserver/wmsgn/wms?SERVICE=WMS&REQUEST=GetCapabilities>

- Poveznica mora biti valjana i dati odgovor – Capabilities dokument usluge (otvoren i javno dostupan)
- Vrijeme odaziva zahtjeva max. 10 sek
- Capabilities dokument usluge mora imati potpune metapodatke

Izmjene Specifikacija metapodataka NIPP-a

- Specifikacija metapodataka NIPP-a v.2.1.
 - Tehničke smjernice metapodataka temeljene na EN ISO 19115 i EN ISO 19119
- Izmjene specifikacija 2019. godine
 - Tehničke smjernice za uspostavu metapodataka INSPIRE skupova podataka i usluga temeljenih na ISO/TS 19139:2007
 - Ispravljanje uočenih nepravilnosti
- Implementacija u Katalog metapodataka u 1. kvartalu 2020. godine

Interoperabilnost mrežnih usluga

- Mrežna usluga mora biti ispravno povezana sa skupom podataka kojeg isporučuje (povezivanje izvora)
- Mrežna usluga pregleda:
 - sloj usluge pregleda povezan sa skupom podataka
 - barem jedan sloj daje preglednu sliku skupa podataka (GetMap)
- Mrežna usluga preuzimanja:
 - povezana sa skupom kojeg poslužuje preko jedinstvenog identifikatora i poveznice na metapodatke skupa (Extended Capabilities)
 - Dostupna je poveznica na preuzimanje podataka – predefinirani upit (GetFeature)
 - Dostupni su INSPIRE prostorni objekti u preuzetim podacima – INSPIRE sheme podataka

Pregled podataka

- GetMap upit nad uslugom pregleda je uspješan i daje preglednu sliku podatka
- Primjer GetMap upita:

```
http://geoportal.hac.hr/inspire/TN-RO/ows?  
service=WMS&  
request=GetMap&  
version=1.3.0&
```

```
FORMAT=image/png&  
CRS=CRS:84&  
SRSKEY=CRS&STYLES=&WIDTH=1524&HEIGHT=1524&  
LAYERS=TN.RoadTransportNetwork.RoadLink&  
PROJECTION=CRS:84&  
BBOX=15.026024629888083,43.059996555170805,19  
.187629628185633,46.42998613227564&  
TRANSPARENT=TRUE
```

TN.RoadTransportNetwork.RoadLink
(TN.RoadTransportNetwork.RoadLink)
you might need to zoom-in to see the information



Preuzimanje podataka (1)

- INSPIRE usluga preuzimanja mora podržavati tzv. predefinirane upite (Stored queries)
- Sve kombinacije referentnog koordinatnog sustava/jedinstvenog identifikatora/jezika za preuzimanje podataka moraju biti dostupne kroz predefinirani upit
- Identifikator predefiniranog upita za INSPIRE usluge je:
<http://inspire.ec.europa.eu/operation/download/GetSpatialDataSet>

Preuzimanje podataka (2)

- Operacija ListStoredQueries provjerava da li WFS usluga sadrži obavezni predefinirani upit npr.:

<http://rgi.dgu.hr/geoserver/gn/wfs?service=WFS&request=ListStoredQueries>

```
<wfs:ListStoredQueriesResponse xsi:schemaLocation="http://www.opengis.net/wfs/2.0 http://rgi.dgu.hr
-<wfs:StoredQuery id="urn:ogc:def:query:OGC-WFS::GetFeatureById">
  <wfs:Title xml:lang="en">Get feature by identifier</wfs:Title>
  <wfs:ReturnFeatureType>gn:NamedPlace</wfs:ReturnFeatureType>
</wfs:StoredQuery>
-<wfs:StoredQuery id="http://inspire.ec.europa.eu/operation/download/GetSpatialDataSet">
  <wfs:Title xml:lang="en">INSPIRE GetSpatialDataSet</wfs:Title>
  <wfs:ReturnFeatureType/>
</wfs:StoredQuery>
</wfs:ListStoredQueriesResponse>
```


Indikatori interoperabilnosti

- Nalaze se na vrhu svakog izvješća validacije i na svakom prikazu izvora na INSPIRE geoportalu
- Označavaju koliko je dokument metapodataka ili grupa dokumenta sukladan sa provedbenim pravilima za metapodatke i mrežne usluge
- Sadrže validaciju po bojama (stupnju interoperabilnosti)

Usklađenost metapodataka Interoperabilnost

Potpunost i usklađenost s
Provedbenim pravilima za
metapodatke i tehničkim
smjernicama



Usklađenost izvora ili
grupe izvora s INSPIRE
provedbenim pravilima i
Tehničkim smjernicama

Vaš cilj



INSPIRE referentni Validator - što se može testirati?



INSPIRE

Validator

[About](#) | [Contact](#) | [Legal Notice](#)

English (en)

[European Commission](#) > [INSPIRE](#) > [Validator](#)

Welcome to the 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 improvements may be needed).

The validator is based on the [Abstract and Executable Test Suites](#) agreed between Member States and the Commission in the INSPIRE Maintenance and Implementation Group. See the [Roadmap](#) for the test suites that are currently supported and our future planning.

The validator has been developed under [ARE3NA](#) and [ELISE](#) Actions of the ISA/ISA2 Programmes.



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).

[Start a test](#)



API

If you are a developer, you can access and call the operations of the validator API to power your own applications.

[Try the API](#)



Want more?

Download the software, deploy it in your own infrastructure and customise it to fit your specific needs.

[Get the software](#)



Feedback

Use the Community space to provide your feedback or proposals on the ATS, ETS or the ETF test framework.

[Provide your feedback](#)

Upute za korištenja INSPIRE referentnog Validatora

WFS 2.0 (OGC 09-025r2/ISO 19142) Conformance Test Suite

Conformance Class: Download Service - Direct WFS Failed: 1/3

This test suite examines an OGC Web Feature Service against the requirements related to the conformance class 'Web Feature Service and Filter Encoding implementation of Direct Access Download Service' in INSPIRE. This conformance class does not specify any requirements in addition to the dependencies to conformance classes specified by the OGC standard documents WFS 2.0 and FES 2.0. This Executable Test Suite, therefore, depends on the OGC [WFS 2.0 Conformance Test Suite](#), which is invoked automatically.

The Executable Test Suite is divided into two test modules. In the first module 'initialization and basic checks', basic queries are sent to the service to ensure the endpoints are available. The 'Capabilities' test module contains a test case that checks, if the Capabilities document of the service declares all required Conformance Classes.

There are a few test cases and test steps that are marked as 'technical test step' or 'technical test case' in the description. They are used to control the test execution flow of the steps. The description text of a technical test step indicates the test steps that are executed. If a technical test step fails, the other test steps, which have been called by the technical test step, should be checked first. To examine a reported issue, the assertion messages should be compared with the service responses which are included in the report. If the response contains an exception report, the request should be checked for 'incorrect' parameters (e.g., a non-existing feature type ID). The test step description typically includes information about the source of the parameter value (e.g., from a previous request where the feature type ID was listed).

This is a draft version. It has limitations and is expected to contain errors. Please report any issues or problems [on GitHub](#).

Known limitations are documented in the description of the applicable test case or test assertion.

Source: [Conformance Class 'Direct WFS'](#)

Status: Failed
Duration: 5 s
Version: 1.0.0

Initialization and basic checks 1

Capabilities Failed: 1/1

Test module for checking Capabilities related information.

Status: Failed
Duration: 0.325 s

Conformance Classes Failed: 1/3

The test case performs a GetCapabilities request and checks if the service supports all required Conformance Classes.

Relevant Requirements:

- TG Requirement 61: Implementations shall meet TG Requirement 48 (conformance to [ISO 19142] 'HTTP GET' conformance class) and TG Requirement 52 (one endpoint for each INSPIRE dataset).
- TG Requirement 62: Implementations shall conform to ISO 19142 Conformance Class 'Basic WFS'
- TG Requirement 63: A Direct Access Download Service shall conform to ISO 19143 'Ad hoc Query' Conformance Class.
- TG Requirement 64: A Direct Access Download Service shall conform to ISO 19143 'Resource Identification' Conformance Class.
- TG Requirement 65: A Direct Access Download Service shall conform to ISO 19143 'Minimum Standard Filter' Conformance Class.
- TG Requirement 66: A Direct Access Download Service shall conform to ISO 19143 'Minimum Spatial Filter' Conformance Class.
- TG Requirement 67: A Direct Access Download Service shall conform to ISO 19143 'Minimum Temporal Filter' Conformance Class.
- TG Requirement 68: A Direct Access Download Service shall conform to ISO 19143 'Minimum XPath' Conformance Class.

Source: [Abstract Test Case 'Conformance Classes'](#)

Status: Failed

Report generated by ETF

Provedbena Odluka Komisije (EU) 2019/1372 u pogledu praćenja i izvješćivanja

- Europska komisija donijela 19. kolovoza 2019. godine
- Ukinut trogodišnji izvještaj (engl. Reporting)
- Uvedeno godišnje izvješćivanje (engl. Country fische)
- Referentni datum izvještaja o praćenju (engl. Monitoring): 15. prosinca tekuće godine

Izvještaj o praćenju provedbe INSPIRE-a

- Razvijen automatski sustav izrade Izvještaja
- Novi indikatori uključuju:
 - Dostupnost metapodataka prioriternih skupova podataka
 - Dostupnost metapodataka s ključnom riječi prostornog obuhvata Nacionalni
 - Dostupnost metapodataka s ključnom riječi prostornog obuhvata Regionalni
- Temeljem **INSPIRE referentnog Validator**a računa se usklađenost metapodataka sa specifikacijama i provedbenim pravilima
- Usklađenost mrežnih usluga računa se temeljem izjave o usklađenosti dostupne u metapodacima

Obveze subjekata u Monitoringu 2019.

- Uređivanje metapodataka:
 - Ažuriranje zastarjelih informacija
 - Ispravljanje grešaka metapodataka
 - Unos metapodataka koji nedostaju
 - Provjera novo unesenih ključnih riječi (Prostorni obuhvat)
 - Ispravljanje grešaka specifikacije (2019.)
 - Ispravljanje grešaka kataloga metapodataka
 - Ispravljanje nedosljednosti metapodataka

Hvala Vam na pozornosti!

Kontakt: infonipp@dgu.hr