

INSPIRE tools – What's new?

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Joint Research Centre

The European Commission's science and knowledge service



INSPIRE reference validator

- Why a reference validator?
 - Check implementation progress
 - Monitor the progress implementations in MS and across Europe
 - Check software solutions against the INSPIRE requirements
- ETS & ATS maintained by MIG sub-group 2017.4 on validation and conformity testing
 - ATS & ETS: <https://github.com/inspire-eu-validation>
 - Wiki: <https://webgate.ec.europa.eu/fpfis/wikis/x/9JqgE>



INSPIRE reference validator

- Scope: Tests for all INSPIRE Technical Guidance
 - v1.0: Annex I data specifications, metadata (TG v1.3), download services (Atom and WFS) [July 2017]
 - v1.x: Metadata (TG v2.0), View Services (WMS & WMTS), Annex II+III data specifications, Discovery Services (CSW), download Services (SOS & WCS) [2018-2019]
- Aims
 - Development of a reusable, open source, reference validator
 - Build upon existing solutions
 - Configurable software and test rules
- Development supported by ISA/ISA² actions ARE3NA and ELISE



Which tool to use?

INSPIRE reference validator

- <http://inspire-sandbox.jrc.ec.europa.eu/validator>
- aim: agreed reference implementation of validation rules
- developed under the governance of the MIG and based on commonly agreed Abstract Test Suites available in the [public ATS repository](#)

→ Only the reference validator should be considered as a complete and authoritative INSPIRE compliance tests

→ Please report discrepancies on [Github](#) or log them in the [geoportal helpdesk](#)

Geoportal harvesting checks

- <http://inspire-geoportal.ec.europa.eu/validator2/>
- aim: emulate the checks executed by the INSPIRE geoportal during its harvesting process to extract and enrich the information found in the metadata
- evolved prior and in parallel to the development of the Reference Validator and may currently not be fully consistent with the agreed ATS

INSPIRE reference validator – What's new?

- ETS for Metadata Technical Guidance (TG) v2.0, Updated ATS for View Services
- Upcoming:
 - ETS for View Services TG (WMS and WMTS)
 - ATS and ETS for SOS-based Download Services TG
- Discussions of open issues in temporary working group → raised several issues in the TGs (and some even in legal acts), also related to consistency between different TGs (data, services, metadata)
- ETF improvements (UI/UX improvements, re-run options, bug fixing, performance and cloud-readiness analysis)



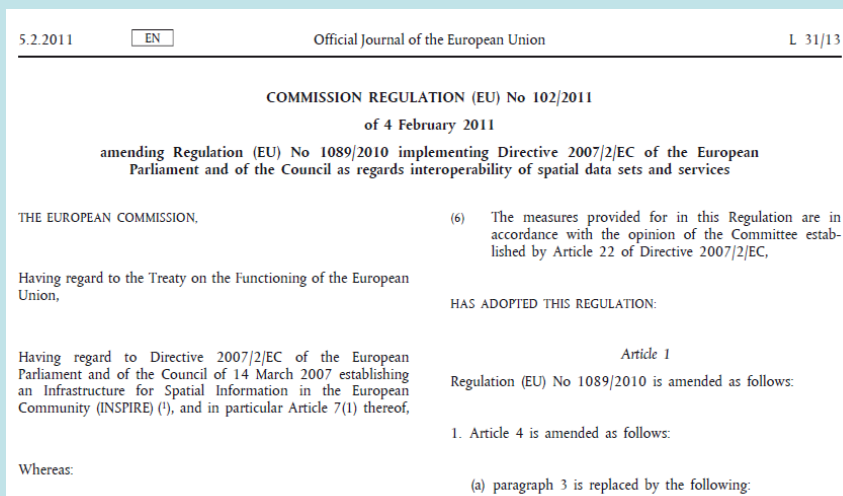
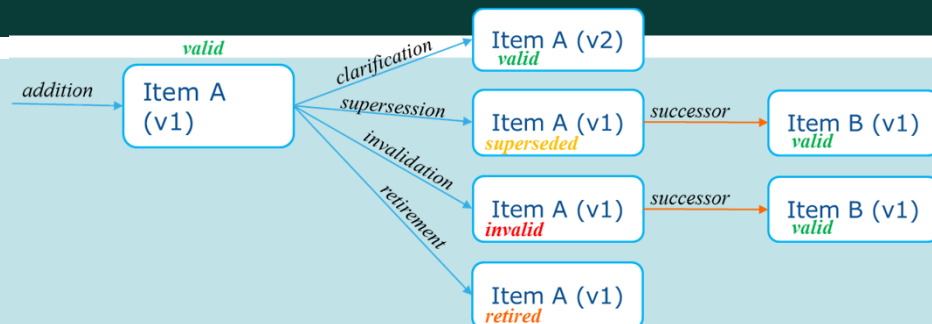
ETF development – What's new?

- <https://github.com/etf-validator/> (new Github organization)
- Governance → Steering Group (currently: interactive instruments, JRC)
 - Product Roadmap management
 - Release management
 - Project Policies and Practices
 - License Policy: EUPL
- Technical management → Technical Committee
 - Governance of the Source Code Repository
 - Guiding Technical Development
 - QC of developments
 - Generate releases



Why an INSPIRE registry?

- Manage unique identifiers assigned to items with descriptions of the associated items (e.g. code lists, themes, application schemas, ...), according to well-defined workflows (ISO 19135)
- Governance: Submitting Organisations (one per MS, plus EEA, DG ENV and JRC) and Control Body
- Change proposals:
<https://ies-svn.jrc.ec.europa.eu/projects/registers-control-body/issues>



Re3gistry Software (v1.3.1)

Multi-lingual

Search

Versioning

Common data

Custom data

Status (valid, superseded, ...)

Parent-child hierarchy

Linked items

Multiple formats

Hierarchical registers (collections)

Natura2000 Designation

ID: <http://inspire.ec.europa.eu/codelist/Natura2000DesignationValue>

This version: <http://inspire.ec.europa.eu/codelist/Natura2000DesignationValue:1>

Latest version: <http://inspire.ec.europa.eu/codelist/Natura2000DesignationValue>

Label: **Natura2000 Designation**

Definition: A code list for the Natura2000 designation scheme, in accordance with Council Directive 92/43/EEC (Habitats Directive).

Governance level: eu-legal

Status: Valid

Parents: Designation

Themes: Protected sites

Application schema: Protected Sites Simple

Extensibility: Not extensible

Other formats: XML XML RDF/XML JSON Atom CSV

Filter Label	Filter Governance level	Filter Status
Label	Governance level	Status
proposed site of community importance	eu-legal	Valid
proposed special protection area	eu-legal	Valid
site of community importance	eu-legal	Valid
special area of conservation	eu-legal	Valid
special protection area	eu-legal	Valid

Items per page: 50 Showing 1 to 5 of 5 entries

Re3gistry v2 – Migration tool for Registry v1.x

Database address:	<input type="text" value="127.0.0.1"/>
Database port:	<input type="text" value="5432"/>
Database name:	<input type="text" value="inspire_registry"/>
Database username:	<input type="text" value="username"/>
Database password:	<input type="password" value="....."/>
<input type="button" value="Start migration"/>	

Re3gistry V.1.x



Migration
tool



Re3gistry V.2

Re3gistry v2 – Editing interface

Home page Content Submitting Organisations Logout

Manage the content

en it cs bg da de el es et fi fr hu lt lv mt pl nl pt ro sk sl sv hr

URI

Proposed Current

Label-mod * INSPIRE theme register

Content summary-mod

B I | ?

The INSPIRE theme register contains all spatial data themes, as defined in the Annexes of the INSPIRE Directive (Directive 2007/2/EC of the European Parliament and of the Council of 14 March 2007 establishing an Infrastructure for Spatial Information in the European Community (INSPIRE)). The descriptions of the themes are based on version 3.0 of the "Definition of Annex Themes and Scope (D 2.3)" by the data

The INSPIRE theme register contains all spatial data themes, as defined in the Annexes of the INSPIRE Directive (Directive 2007/2/EC of the European Parliament and of the Council of 14 March 2007 establishing an Infrastructure for Spatial Information in the European Community (INSPIRE)). The descriptions of the themes are based on version 3.0 of the "Definition of Annex Themes and Scope (D 2.3)" by the data specifications drafting team and subsequent updates by the INSPIRE Thematic Working Groups (TWGs).

Register manager INSPIRE Register Manager INSPIRE Register Manager

Register owner INSPIRE Register Owner INSPIRE Register Owner

Control body INSPIRE Control Body INSPIRE Control Body

Submitting organizations INSPIRE Submitting Organization INSPIRE Submitting Organization

Re3gistry v2 – Managing change proposals

Submitting Organisations dashboard

Actions list

Label	Start date	Register	Status	User (owner)	Actions
Action on INSPIRE enumeration register	2018-08-31 09:53:29	INSPIRE enumeration register	Draft	francdb	Submit to control body
strawbrry item	2018-08-31 09:25:24	Fruits register	Not accepted (by Control Body 1)	Submitting Organization 2	
Action on Fruits register	2018-08-30 17:48:25	Fruits register	Submitted (by Submitting Organization 1)	Submitting Organization 1	
Action on Fruits register	2018-08-30 17:41:10	Fruits register	Not accepted (by Control Body 1)	Submitting Organization 1	
Action on INSPIRE feature concept dictionary	2018-08-30 16:35:40	INSPIRE feature concept dictionary	Draft (change needed)	francdb	Read the change request
Action on Fruits register	2018-08-28 18:49:18	Fruits register	Published	Submitting Organization 1	
Action on Fruits register	2018-08-28 17:51:21	Fruits register	Not accepted (by Control Body 1)	Submitting Organization 1	
More clear action	2018-08-27 15:34:22	INSPIRE feature concept dictionary	Draft (change needed)	Submitting Organization 1	
Action on INSPIRE enumeration register	2018-08-27 14:31:13	INSPIRE enumeration register	Draft	Submitting Organization 2	
Action on INSPIRE layer register	2018-08-23 11:08:23	(mod) INSPIRE layer register	Draft	Submitting Organization 1	

Show entries Showing 1 to 10 of 27 entries

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Re3gistry v2 – Managing change proposals

Control body dashboard

Actions list

Label	Start date	Register	Status	User (owner)	Actions
Action on INSPIRE enumeration register	2018-08-31 09:53:29	INSPIRE enumeration register	Draft	francdb	
strawbrry item	2018-08-31 09:25:24	Fruits register	Not accepted (by Control Body 1)	Submitting Organization 2	
Action on Fruits register	2018-08-30 17:48:25	Fruits register	Submitted (by Submitting Organization 1)	Submitting Organization 1	Approve Approve with changes Reject
Action on Fruits register	2018-08-30 17:41:10	Fruits register	Not accepted (by Control Body 1)	Submitting Organization 1	
Action on INSPIRE feature concept dictionary	2018-08-30 16:35:40	INSPIRE feature concept dictionary	Draft (change needed)	francdb	
Action on Fruits register	2018-08-28 18:51:54	Fruits register	Draft	Register Manager 1	
Action on Fruits register	2018-08-28 18:49:18	Fruits register	Published	Submitting Organization 1	
Action on Fruits register	2018-08-28 17:51:21	Fruits register	Not accepted (by Control Body 1)	Submitting Organization 1	
More clear action	2018-08-27 15:34:22	INSPIRE feature concept dictionary	Draft (change needed)	Submitting Organization 1	
Action on Fruits register	2018-08-27 14:57:59	Fruits register	Draft	Registry Manager 1	

Show entries Showing 1 to 10 of 29 entries

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Re3gistry v2 – Managing registers

[Home page](#) [Content](#) [Structure](#) [Submitting Organisations](#) [Register Manager](#) [Registry Manager](#) [Logout](#)

Add a new register

Registry

Registry path in Register URI?

Local ID *

URI preview

Please enter the item in the system master language (en). Any additional translation can be added later.

Label *

Content summary

B I | | | | | | | | | | | | | ?

Register owner *

Register manager *

Control body *

Submitting organisations *

Re3gistry v2 – Managing registers

[Home page](#) [Content](#) [Structure](#) [Submitting Organisations](#) [Register Manager](#) [Registry Manager](#)

[Logout](#)

Manage fields

Fields available for the register theme

Note: the changes done in the table (check boxes) are automatically saved.


Display order	Label	Type	Is hyperlinked	Hidden	Multivalued	Required	Show in table	Actions
0	Label	text	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Edit
1	Content summary	longtext	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Remove field Edit
2	Register manager	groupReference	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Remove field Edit
3	Register owner	groupReference	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Remove field Edit
4	Control body	groupReference	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Remove field Edit
5	Submitting organisations	groupReference	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Remove field Edit
6	Contact point	text	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Remove field Edit
7	License	text	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Remove field Edit
8	Status	status	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Edit

Show entries Showing 1 to 9 of 9 entries

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Add field

Re3gistry v2 – Other features

- Easy installation
 - Install wizard
 - Automatic initialization
 - Option to install the system using  docker
- New Apache Solr™ based service handling (no more static files export)
- Restful API



Re3gistry v2 – Development status

- ✓ New architecture
- ✓ Definition of roles and workflows
- ✓ Database
- Editing interface
- Migration
- Solr handler
- Service frontend



Re3gistry and INSPIRE register federation workshop 5-6 September

- 15 register experts from submitting organisations and the control body
- Collection and prioritization of requirements for the Re3gistry software
- Possible scenarios and governance structures for the mid- and long-term sustainability of the Re3gistry software and the INSPIRE register federation





Any questions?

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