

MIWP-5: Validation & conformity testing – Overview & ATS Development

Michael Lutz
Workshop on validation, Marne-la-Vallee, 2-3 June 2016

THE REPORT OF THE PARTY OF THE

www.jrc.ec.europa.eu

Serving society Stimulating innovation Supporting legislation

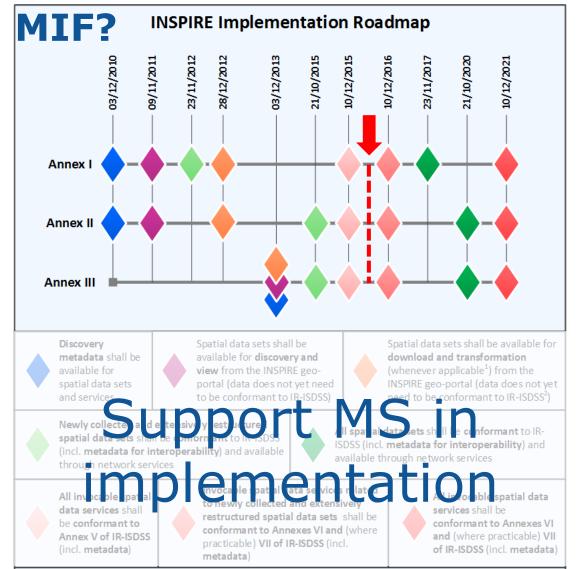


Content

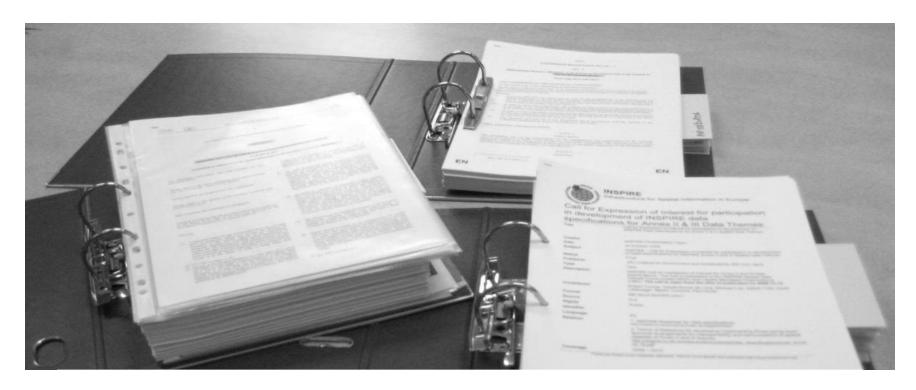
- The INSPIRE maintenance and implementation framework (MIF)
- Why an action on validation and conformity testing
- Current status & next steps
- ATS development





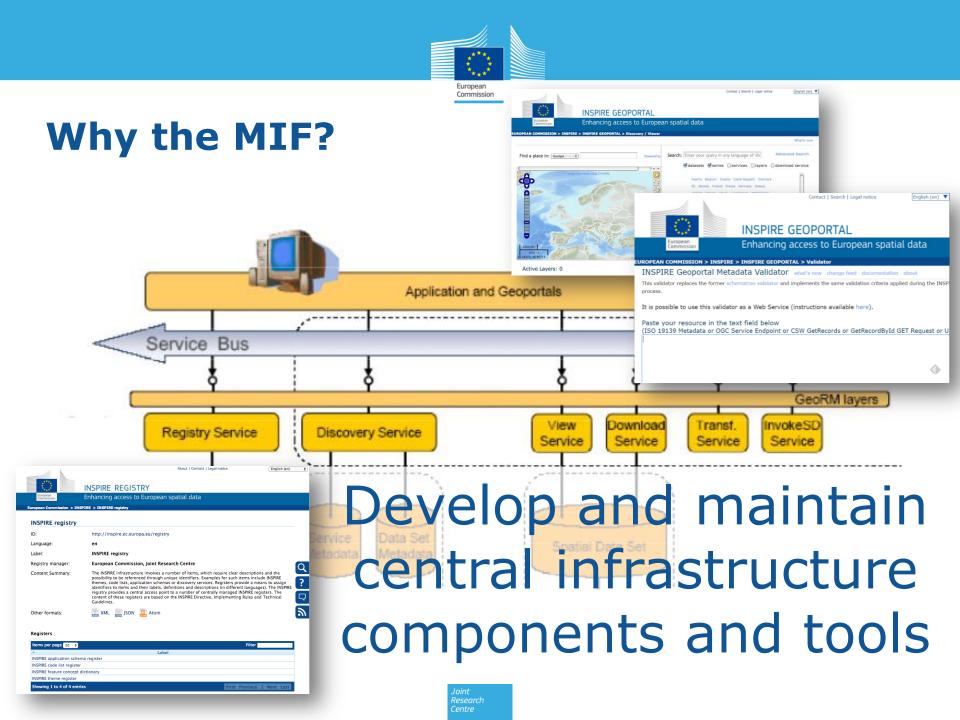




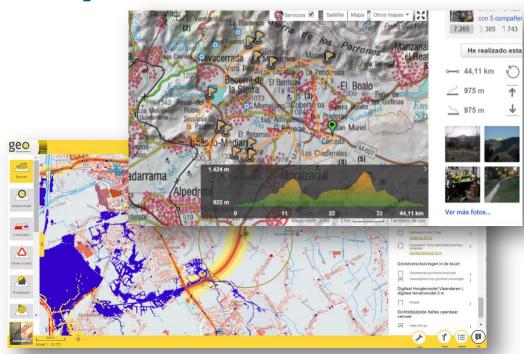


Maintain 6 legal acts and 40+ Technical Guidelines















Support technical evolution and use of INSPIRE data & services

















Coordinate with other policies and discuss strategic direction





MIWP-5 Validation & conformity testing

- In the implementation phase there is a need for tools for validation (of metadata, services, data)
 - for implementers to understand where they are with their implementation & where there are gaps
 - for national coordinators for monitoring the implementation in their countries
 - for DG ENV/JRC/EEA to monitor the implementation across Europe
 - for solution providers to check their software solutions against the INSPIRE requirements
- Validation service available from JRC and in some Member States and projects
 - → duplication of effort
 - → potentially inconsistent results





MIWP-5 Validation & conformity testing

- Main goal: Development of validation rules and tools for data, metadata & network services that are
 - commonly agreed by all MS (through the MIG)
 - based on TG requirements → Abstract Test Suites (ATS)

Actors:

- MIWP-5 sub-group
- Expert contracts for ATS development
- ARE3NA contractors for ETS development and support to ATS development



• Wiki:

 https://ies-svn.jrc.ec.europa.eu/projects/validation-andconformity-testing





Milestones

- Scoping workshop, May 2014
- Start ATS development, Nov 2014
- MIWP-5 kick-off meeting, Dec 2014
- Start ARE3NA activity on validation, Dec 2015
- Completion ATS development (MD+NS), June 2016
- 1st release INSPIRE testing framework and ETS: Aug 2016
- Completion ARE3NA activity on validation, June 2017





TASK 1 Sub task Define scope - ToR 1.1 Policies and procedures -1.2 Change management Compliance certification 1.3 INSPIRE testing maintenance





TASK 2 Sub task

Define use cases for commonly 2.1 agreed validator(s)



Specification of (functional and non-functional) requirements



Existing validation tools/ 2.3 platforms and approaches



Design & implementation of INSPIRE testing framework 2.5



Collect schema & schematron existing examples - TC



2.6



T	Δ	15	31	K	3	3
S		h	t	a	sl	7

3.x.1 Develop ATS (MD, SDS, NS)



3.x.2 Compare existing implementation of IR requirements



Map requirements in IR to requirements in TG



3.x.4 Develop ETS based on ATS requirements



Investigate feasibility of testing INSPIRE data sets



3.5





- Definition: set of conformance classes that define tests for all requirements of a specification
 - Conformance class: set of conformance test modules that must be applied to receive a single certificate of conformance
 - Test module: set of related tests, all within a single conformance class
 - Test case: test for a particular requirement or a set of related requirements





ATS + conformance classes in TGs

- ATSs included in all INSPIRE data specifications
 - Starting with Annex II+III (according to the DS common template)
 - Annex I data specifications were updated as MIWP-10
 - Part A: IR requirements (several conformance classes)
 - Part B: TG requirements (one conformance class)
- TG for download services structured in conformance (or rather: requirements) classes, but no ATS
- Other TGs do not include conformance classes or ATS

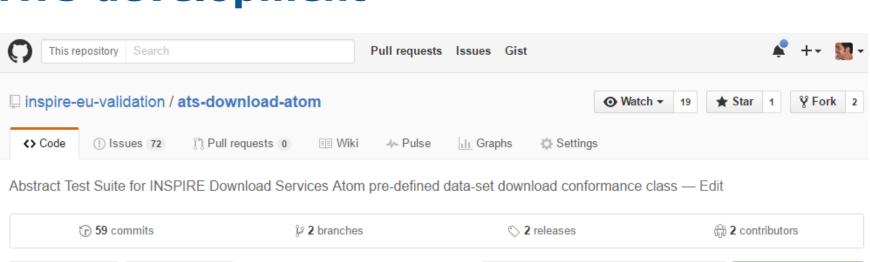


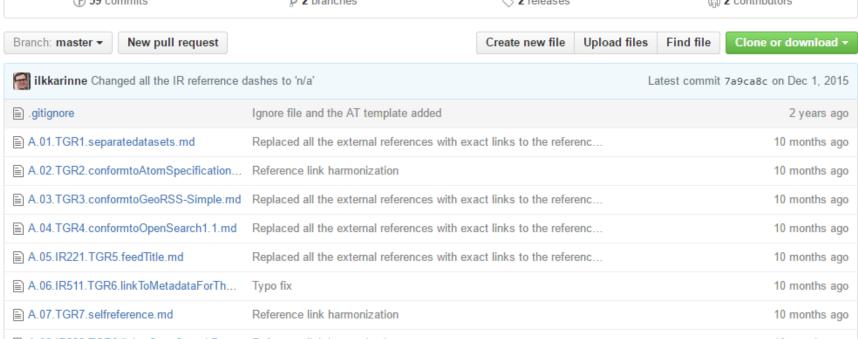


- MWIP-5 draft ATSs
 - Initial draft: Nov 2014 Feb 2015
 - Final draft: Sep-Nov 2015
 - Involving several expert contracts
 - In Github: https://github.com/inspire-eu-validation/
- TGs covered
 - Metadata v1.3
 - Discovery NS v3.1
 - View NS v3.11
 - Download Service (Atom, WFS Pre-defined download and Direct Access) v3.1
 - Interoperability metadata (DS v3.x)
 - Spatial data services (v3.1)

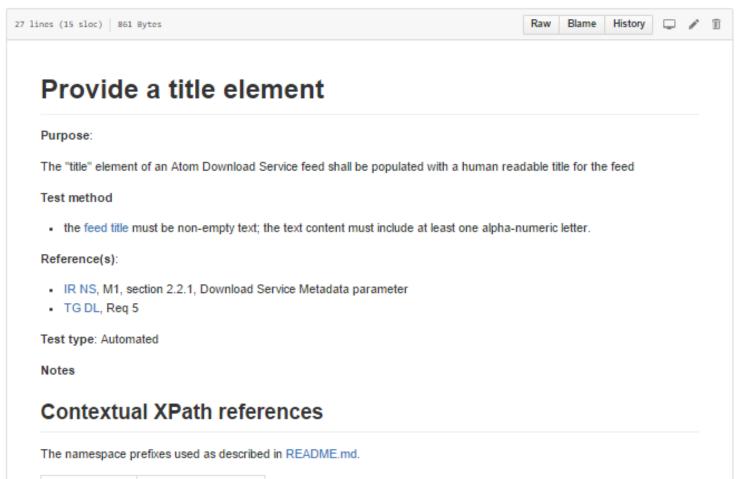












Abbreviation XPath expression feed title /atom:feed/atom:title

https://github.com/inspire-eu-validation/ats-download-atom/blob/master/A.05.IR221.TGR5.feedTitle.md



- MIWP-5, ARE3NA and MIG-T review
 - Several detailed issues on proposed tests
 - Consistent terminology should be used
 - Proposed consistent structure for all ATSs
 - TG \rightarrow CC \rightarrow Test case
 - Review revealed issues in the TGs → 2 types of TG change requests
 - vague requirement → document the interpretation in the ATS (to be taken into account in future TG updates)
 - technical changes to the TG → reject the resolution and follow the standard TG update process through the MIG
 - Several issues related to cross-component consistency → flag issues to get a first overview
 - Need for an additional "SDI consistency" TG?





ATS development – next steps

- Develop Additional ATSs for
 - Data specification TGs (→ Clemens' presentation)
 - SDS TG v4.0
 - MD TG v2.0
- Further improvement of existing ATSs based on feedback from ETS implementation
- Discuss feedback on TGs from ATS development with the MIG-T

