



# INSPIRE Reference Validator and validation community

**JRC INSPIRE Team**

*63<sup>rd</sup> MIG-T meeting – October 13-14, 2020*

# Latest release of the INSPIRE Validator

## Annual releases

As mentioned above, several releases of the INSPIRE Reference Validator are scheduled each year with the main goal of concentrating breaking changes in the first half of the year in order to produce the major release used for the end-of-year Monitoring process already in June. The scheduled annual releases are described in detail in the next sub-sections. In addition to the different infrastructure and deployment environments, the different releases are managed using different branches of the *ets-repository* repository.

For simplicity, the descriptions make explicit reference to releases in the years 2020/2021, but the same release schedule will be applied consistently over the following years:

- v2020.1 - 15/03/2020: it includes both breaking and non-breaking changes.
- v2020.2 - 15/06/2020: it includes both breaking and non-breaking changes. **used for Monitoring and Reporting 2020**
- v2020.3 - 15/09/2020: it only includes non-breaking changes, so that any INSPIRE resource passing the test in the previous release automatically passes the same test in this release. This release is the one used for the end-of-year Monitoring process.
- v2021.b - 15/09/2020: it includes both breaking and non-breaking changes which are planned to become effective (for Monitoring purposes) in the following year. **beta version – NOT RELEASED**
- v2021.0 - 15/01/2021: it includes both breaking and non-breaking changes, including those available in the beta instance of the previous year.

# Upcoming release of the ETF framework

- v.2.1 to be released in October, will fix some INSPIRE-specific issues:
  - GML polygon orientation (caused by a deegree issue) [[#60](#), [#137](#), [#147](#), [#886](#)]
  - invalid geometries (CRS issues) [[#203](#), [#214](#), [#267](#), [#301](#)]

ETF Improvement Proposals (EIPs) Updated on 7 Sep

Filter cards Add cards Fullscreen Menu

- 6 Proposer: draft/refine EIP**
  - Performance improvement for tests with small spatial test data sets [draft] governance#76 opened by jonherrmann **EIP-draft**
  - Use of BaseX with client-server architecture governance#75 opened by carlospzurita **EIP-draft**
  - Migrate to Java 11 [draft] governance#71 opened by jonherrmann **EIP-draft**
  - Support parallel execution of several ETSs in one test run governance#46 opened by michellutz **EIP-draft**
  - Support parallel execution of test steps/cases/modules inside an ETS governance#47 opened by michellutz **EIP-draft**
  - Handling of low disk space governance#29 opened by michellutz **EIP-draft**
- 2 SG: discussion**
  - New test driver for web service tests governance#77 opened by jonherrmann **EIP**
  - Ring orientation fix with new deegree release governance#96 opened by carlospzurita **EIP-draft**
- 0 TC: analysis**
- 13 TC: in release planning**
  - Separate automatic from manual checks governance#61 opened by MarcoMinghini **EIP-approved**
  - Add a Rerun button governance#18 opened by jonherrmann **EIP-approved**
  - Introduce a parameter to control the maximum number of threads governance#48 opened by michellutz **EIP-approved**
  - Support to cloud deployment governance#13 opened by robsgnao **EIP-approved**
  - Visual improvement of test reports governance#60 opened by MarcoMinghini **EIP-approved**
  - Show ETS dependencies in user view governance#30 opened by michellutz **EIP-approved**
- 10 TC: scheduled for release**
  - New module for testing topological errors in spatial data governance#59 opened by jonherrmann **EIP-approved**  
ETF Release Candidate 1 (version 2.1.0)
  - Custom properties in test model items governance#25 opened by jonherrmann **EIP-approved**  
ETF Release Candidate 1 (version 2.1.0)
  - Test Run Templates governance#28 opened by jonherrmann **EIP-approved**
  - Reusable Test Objects governance#26 opened by jonherrmann **EIP-approved**
  - Open log view in new tab governance#34 opened by michellutz **EIP-approved**
  - Adding support for SOS ETS

# ATS/ETS for Annex II/III Data Specifications

- Prioritisation of data themes for ATS/ETS development

- Current situation:
  - ETS available in staging

Order	Data Theme	Link to ATS	Link to ETS
1	AM	<a href="#">ATS</a>	<a href="#">ETS</a>
2	LU	<a href="#">ATS</a>	<a href="#">ETS</a>
3	NZ	<a href="#">ATS</a>	<a href="#">ETS</a>
4	EF	<a href="#">ATS</a>	<a href="#">ETS</a>
5	SD	<a href="#">ATS</a>	<a href="#">ETS</a>
6	BU	<a href="#">ATS</a>	<a href="#">ETS</a>
7	HH	<a href="#">ATS</a>	

- Suggestions:
  - please monitor the [GitHub issue](#) for the updated picture
  - test the new ATS/ETS
  - data sets from Annex II/III can already be tested against [cross-cutting requirements](#)

<https://github.com/inspire-eu-validation/community/issues/336>

Order	Data Theme	Number of data sets (May 2020)	Number of Priority data sets (May 2020)
1	AM	4191	515
2	LU	68415	36
3	NZ	1360	257
4	EF	1092	180
5	SD	2142	77
6	BU	1098	1
7	HH	667	227
8	US	1725	66
9	HB	1199	86
10	GE	1852	43
11	LC	1096	38
12	PF	419	96
13	EL	3764	2
14	OF	482	15
15	SR	285	18
16	BR	206	21
17	OI	1148	3
18	AC	316	9
19	SU	439	6
20	PD	209	11
21	SO	961	2
22	AF	216	8
23	MR	217	3
24	MF	311	2
25	ER	279	2

# New INSPIRE Validator User Interface

- Working prototype released with the INSPIRE validation community
  - to be tested by the community until November 15 before replacing the current interface
  - access available upon request
  - aligned with the visual identity of the European Commission
  - **simplified workflow** for starting tests

The screenshot shows the 'INSPIRE Validator - Test selection' page. At the top, there is a European Commission logo and a search bar. The main header is dark blue with the title 'INSPIRE Validator - Test selection' and a subtitle 'Test your INSPIRE data, services and metadata'. Below the header is a navigation menu with links: Home, Start Test, Test Reports, Get support, and More on the INSPIRE Validator. The main content area is titled 'Configure your test' and contains several sections:

- Select the INSPIRE resource you would like to test \***: Radio buttons for Metadata (selected), View Service, Download Service, Discovery Service, and Data set.
- Select the Technical Guidelines version \***: Radio buttons for Version 1.3 and Version 2.0 (selected).
- Select the type of metadata record(s) to be tested \***: Radio buttons for Data sets and data set series, Network Service (selected), and Spatial Data Service.
- Advanced options**: A dropdown menu.
- Provide the resource to test**: A section with a sub-header 'Select the input type and upload or link the resource \*'. It includes a dropdown for 'File upload' and an 'Upload file \*' section with a 'Choose files' button. A note states: 'The system can process multiple files at once. You can upload a compressed ZIP file or enter a service operation with requests to one or more records/features. Maximum size is 5 MB. Encrypted documents and those containing macros are not accepted.'
- Provide a label for your test report (optional)**: A text input field with a placeholder 'Test run on 10:39 - 12.10.2020 with test suite Conformance Class 4: INSPIRE Network Services metadata'.

At the bottom right, there is a yellow 'Start test >' button.

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  - access available upon request
  - aligned with the visual identity of the European Commission
  - simplified workflow for starting tests
  - new visualization of test reports with improved options for filtering

The screenshot displays the 'INSPIRE Validator - Test reports' page. At the top, there is a navigation bar with the European Commission logo, a language selector set to 'English', and a search box. Below the navigation bar, the page title 'INSPIRE Validator - Test reports' is followed by the subtitle 'Review the results of the tests performed'. A secondary navigation menu includes 'Home', 'Start Test', 'Test Reports', 'Get support', and 'More on the INSPIRE Validator'. The main content area is divided into two columns. The left column, titled 'Search options', contains a search input field, dropdown menus for 'Resource type' (set to 'Any resource') and 'Status' (set to 'Any status'), and buttons for 'Refine results' and 'Clear all'. The right column, titled 'Search results (1500)', includes a 'Sort by date' dropdown and a 'Showing results 1 to 30' indicator. The results are listed in a table with alternating green and pink background colors. Each row starts with a plus sign and a status icon (green hand for success, red X for failure, or green checkmark for monitor status). The text in each row describes the test run time, date, and the specific test suite or conformance class being tested.

Status	Test Run Details
Success	Test run on 10:41 - 12.10.2020 with test suite Conformance class: Application schema, Administrative Units
Success	Test run on 11:41 - 12.10.2020 with test suite Conformance Class 4: INSPIRE Network Services metadata.
Failure	Test run on 10:38 - 12.10.2020 with test suite Conformance Class 4: INSPIRE Network Services metadata, and one more test suite
Failure	TEST c7980264-97af-41ec-8853-35c7de2f55e6 - 1602491889376
Success	Test run on 11:35 - 12.10.2020 with test suite Conformance Class 4: INSPIRE Network Services metadata.
Success	Test run on 11:31 - 12.10.2020 with test suite Conformance Class 2: INSPIRE data sets and data set series interoperability metadata, and one more test suite
Failure	Test run on 11:29 - 12.10.2020 with test suite Conformance class: Application schema, Air Transport Networks
Monitor Status	Monitor Status
Failure	TEST 489ef74f-a1e2-4510-bdbc-5f8ce34dbaa8 - 1602491117860
Failure	Test run on 09:59 - 12.10.2020 with test suite Conformance Class: Download Service - Direct WFS
Failure	Test run on 10:55 - 12.10.2020 with test suite Conformance Class: View Service - WMS
Failure	Test run on 09:48 - 12.10.2020 with test suite Common Requirements for ISO/TC 19139:2007 based INSPIRE metadata records, and 2 more test suites
Monitor Status	Monitor Status
Failure	Test run on 09:46 - 12.10.2020 with test suite Common Requirements for ISO/TC 19139:2007 based INSPIRE metadata records, and 2 more test suites

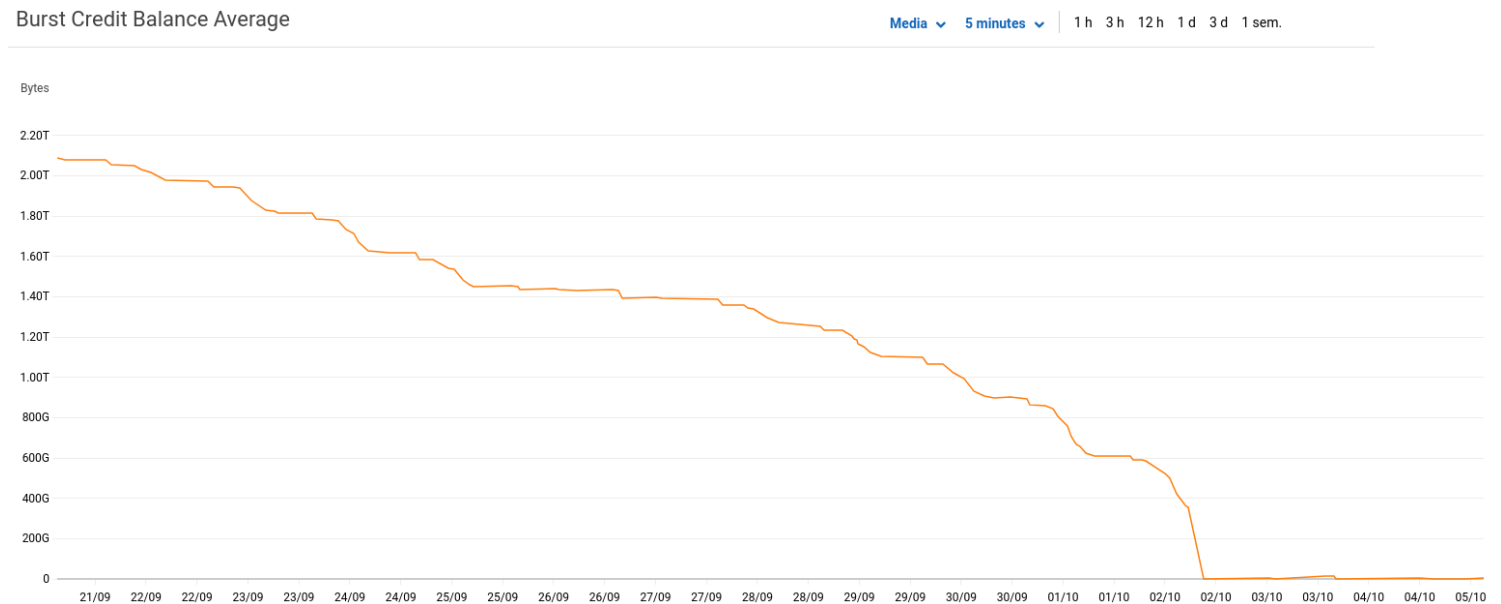
# INSPIRE Validator – Network of NCPs

- Closed Action 2017.4 on Validation and conformity testing.
- Creation of a **network of National Contact Points** focused on validation
  - maintainers of national validators / experts in INSPIRE validation
  - main tasks:
    - staying up-to-date on the latest developments of the Validator
    - **monitoring the issues** raised in the Validator helpdesk and **providing expert feedback**
    - contributing to **testing** new developments of the Validator
    - **promoting the use of the Validator** at the national level and report on national efforts
    - **advising** on the long-term sustainability of the Validator
  - 21 experts from 14 countries: ES, CZ, SE, DE, BE, FI, NL, PT, SK, FR, HU, IT, AT, EL
  - **kickoff meeting** held on July 14
  - setup of a dedicated **mailing list**

# Use of the central Validator instance

- The production instance of the Validator is sometimes **unavailable due to heavy usage by the community**, mainly caused by:
  - **usage of the bulk validation tool for metadata**, which takes all available TestRuns slots and prevents anyone from starting new tests
  - **validation of large (GML) files** served through ATOM feeds, which consumes the credit system in the cloud deployment

Metadata test for 820478e6-f66f-4380-9d56-83e8...	2020-10-02 15:43:00
Metadata test for ca484649-0ec8-4149-94cf-3a8c...	2020-10-02 15:43:00
Metadata test for 0cb3aab8-2f1c-47d8-abec-8b49...	2020-10-02 15:43:00
Metadata test for 52bbca40-a04c-425a-884a-adba...	2020-10-02 15:44:00
Metadata test for 5615eaa7-bdf6-4cd7-a795-0520...	2020-10-02 15:44:00
Metadata test for 693c8f48-63c6-44ca-a5f4-838a...	2020-10-02 15:44:00
Metadata test for 0cb3aab8-2f1c-47d8-abec-8b49...	2020-10-02 15:45:00
Metadata test for ac140515-99bf-46bc-8b43-9730...	2020-10-02 15:45:00
Metadata test for 21f64a74-ef54-42db-88e9-adb9...	2020-10-02 15:45:00
Metadata test for 1f185d81-c699-48e3-9ada-c9e1...	2020-10-02 15:45:00
Metadata test for cd8f3195-fc4e-40f5-941c-5d0d...	2020-10-02 15:45:00
Metadata test for 52bbca40-a04c-425a-884a-adba...	2020-10-02 15:46:00
Metadata test for 3542ba2c-db3e-409b-b357-7238...	2020-10-02 15:46:00
Metadata test for 0073d945-a074-46c7-8972-9787...	2020-10-02 15:46:00





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  - **usage of the bulk validation tool for metadata**, which takes all available TestRuns slots and prevents anyone from starting new tests
  - **validation of large (GML) files** served through ATOM feeds, which consumes the credit system in the cloud deployment
- Investigation of available options to monitor, control and **limit access to the Validator** provided by AWS.
- Usage of **local/national instances** of the INSPIRE Reference Validator is recommended.

# Thank you!



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