



INSPIRE Reference Validator and ETF

JRC INSPIRE Team



71st MIG-T meeting – October 7, 2022

INSPIRE Reference Validator – Releases

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 2022/2023, but the same release schedule will be applied consistently over the following years:

- v2022.1 - 15/03/2022: it includes both breaking and non-breaking changes.
- v2022.2 - 15/06/2022: it includes both breaking and non-breaking changes.
- v2023.b - 15/06/2022: it includes both breaking and non-breaking changes which are planned to become effective (for Monitoring purposes) in the following year. **latest release, used for Monitoring and Reporting 2022**
- v2022.3 - 15/09/2022: 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.
- v2023.0 - 15/01/2023: it includes both breaking and non-breaking changes, including those available in the beta instance of the previous year.

INSPIRE Reference Validator – v.2022.3

v2022.3 - 21/09/2022

Latest

Compare



jenriquesoriano released this 15 days ago · 1 commit to master since this release v2022.3 c10e687

The version published at this time contains non-breaking changes.

Bugfixes

- #39 #613 #822 at39bis layer title manual check added - #777
- #683 at03 check changed to manual and message updated - #769
- #788 wfs:member additionalObjects path added - #770
- #798 sd:SpeciesDistributionUnit added in sd-gml.a.1 - #771
- #809 af:Site added in af-gml.a.1 - #772
- #816 BuildingPart added in bu-gml-a.1 - #773
- #824 C15 codeListValue and error message updated - #774
- #830 sr-as.b.3 Polygon, PolyhedralSurface and TriangulatedSurface added - #775
- #844 wms and wmts description links updated - #776

Deployment instructions

The section containing the deployment process using Docker image and troubleshooting section. You can also find these in the [training material](#)

```
docker login docker.pkg.github.com
#Provide Github credentials
docker run --name inspire-validator -d -p 8090:8090 -v ~/etf:/etf docker.pkg.github.com/inspire-mif/helpdesk-validator/inspire-validator:2022.3
#Launches a container with the image, exposing the UI in port 8090 through the same port in the host machine, and uses a volume in the local file system, on
```

<https://github.com/INSPIRE-MIF/helpdesk-validator/releases/tag/v2022.3>

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**to be released soon:
anticipating v.2023.0, based on ETF v.2.1**

ETF – Release v.2.1

2.1.0 Latest

 github-actions released this 19 Aug 2022  2.1.0  -o- bfefb31 

The installation instructions and the user manual can be found [here](#).

Changelog

Bugfixes

- [#191](#), [#162](#) fix(Web Interface): cancel buttons and back urls in dialogues
- [#192](#) fix(Web Interface): open log in new tab
- [#190](#) fix(Web Interface): hide password in Test configuration dialogue
- [#185](#) fix(bda): Windows build issues due to encoding
- [etf-validator/governance#96](#) Ring orientation fix with new deegree release in GmlGeoX (fixed in the legacy test driver)
- [etf-validator/governance#102](#) (fixed in the legacy test driver)
- [#223](#) fix(tetd) change in Team Engine API
- [#219](#) fix(bsxds) Functx download fails

- 2 main changes relevant to INSPIRE:
 - fix in the **validation of geometry orientation** in GML datasets
 - **end of support for WMS 1.1.1** for security reasons

<https://github.com/etf-validator/etf-webapp/releases/tag/2.1.0>

ETF – Release v.2.1




Features

- #115 Handle GZIP for report attachments
- [etf-validator/governance#71](#) Migrate to Java 11
- #194 #199, [etf-validator/governance#66](#), [etf-validator/governance#65](#) [etf-validator/governance#36](#) [etf-validator/governance#78](#) feature(Test Object Type Detector): WMS, WMTS and SOS test object types
- [etf-validator/governance#25](#) Custom properties in test model items
- [etf-validator/governance#26](#) Reusable Test Objects
- [etf-validator/governance#28](#) Test Classes / Test Run Templates
- [etf-validator/governance#48](#) Parameter to control the maximum number of threads
- [etf-validator/governance#49](#) Improve schema validation
- [etf-validator/governance#57](#) Performance optimisations of the geometry validation module (GmlGeoX) (requires BaseX test driver 3)
- [etf-validator/governance#59](#) TopoX module (requires BaseX test driver 3)
- [etf-validator/governance#93](#) Pre-processing in BaseX testdriver
- [etf-validator/governance#90](#) Delete temporary test objects immediately

Miscellaneous

- [etf-validator/governance#92](#) etf-result-checker
- [etf-validator/governance#70](#) Restructure repositories

▼ Assets 3

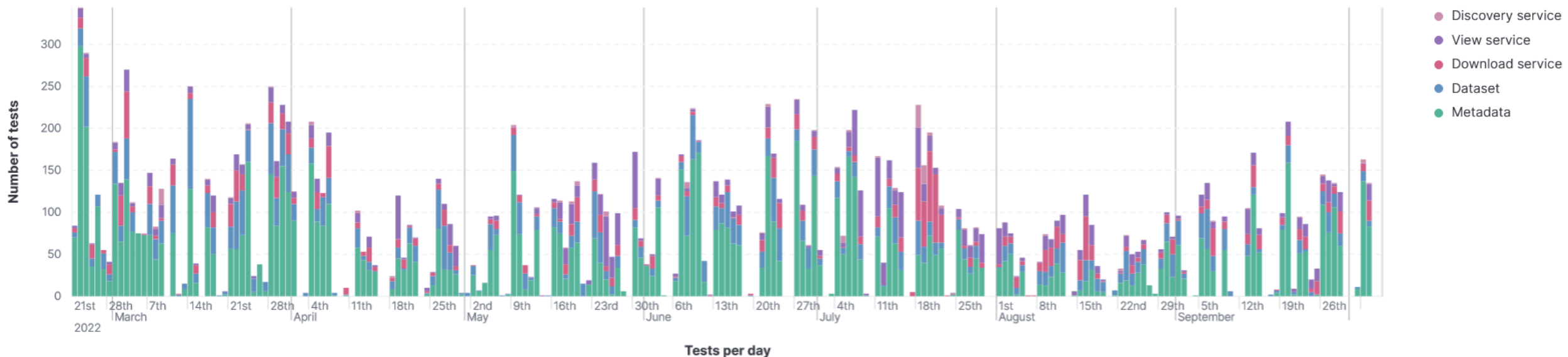
 etf-webapp.war	60.4 MB	19 Aug 2022
 Source code (zip)		19 Aug 2022
 Source code (tar.gz)		19 Aug 2022

<https://github.com/etf-validator/etf-webapp/releases/tag/2.1.0>

INSPIRE Reference Validator – Dashboard

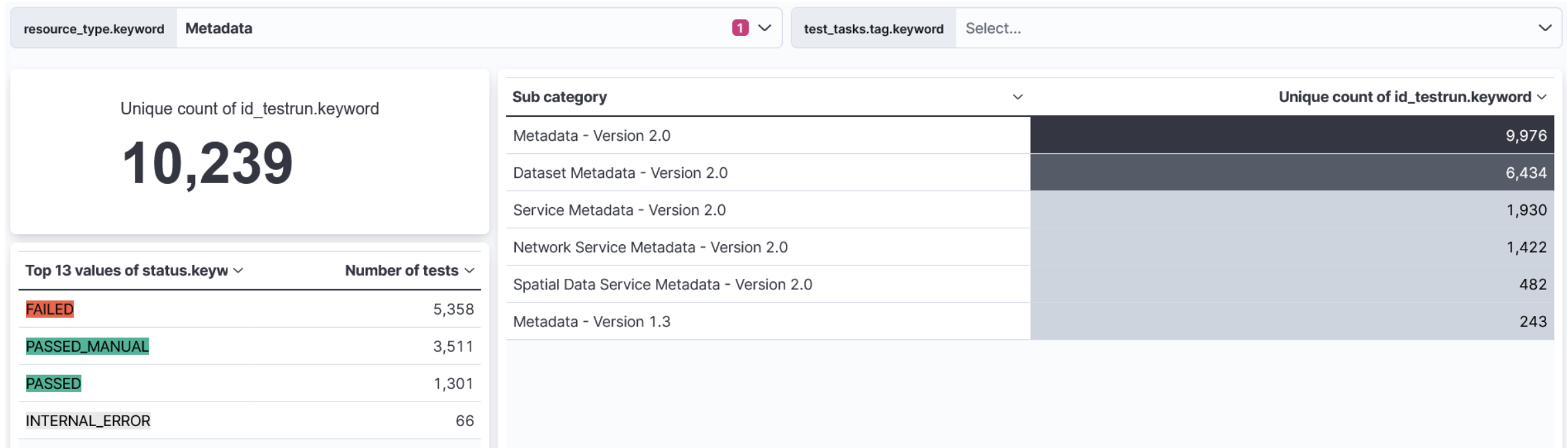
- Created for monitoring the use of the Validator:
 - type, amount, frequency & outcomes of tests
 - technology: Elasticsearch/ Kibana
- A [live demo](#) will be offered at the next MIG/MIG-T meeting in Brussels.
- Potential [integration with the new IKB](#) based on feedback.

Temporal evolution of the number of tests for each resource type



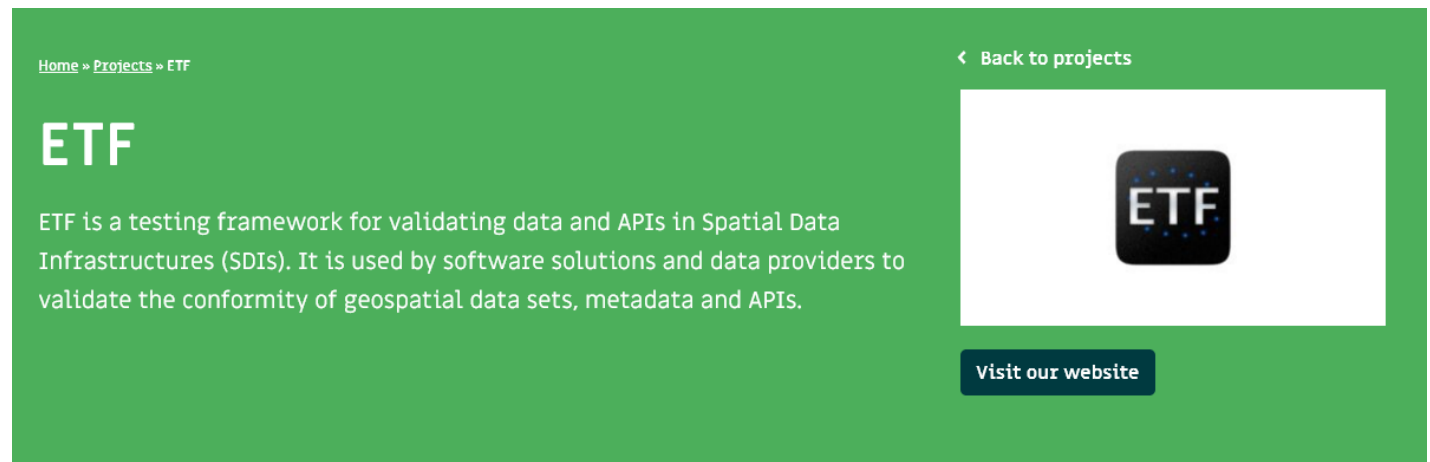
INSPIRE Reference Validator – Dashboard

- Created for **monitoring** the use of the Validator:
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ETF – OSGeo Community Project (candidate)

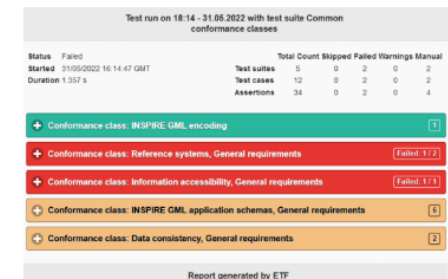
- The ETF was submitted for acceptance as an OSGeo Community Project:
 - [webpage](#) on the OSGeo website created
 - pending [approval](#) from the OSGeo Incubation Committee and the OSGeo Board



The screenshot shows a webpage for the ETF project. At the top left, there is a breadcrumb trail: "Home » Projects » ETF". The main heading is "ETF" in large white letters. Below it, a paragraph describes the framework: "ETF is a testing framework for validating data and APIs in Spatial Data Infrastructures (SDIs). It is used by software solutions and data providers to validate the conformity of geospatial data sets, metadata and APIs." To the right, there is a "Back to projects" link and a logo for ETF, which consists of the letters "ETF" in white on a dark blue square background with small white dots. Below the logo is a button that says "Visit our website".

Goals in designing the ETF software were to create test reports that are user-friendly and self-explanatory as well as to be able to validate large amounts of data, which can be several hundred GB in size. In order to cover different validation tasks and present them in a unified report, the architecture is modular and different test engines can be used. Currently the following test engines are supported: [SoapUI](#) for testing web services, [BaseX](#) database for testing XML data, [TEAM Engine](#) to validate WFS and OGC Web APIs using the OGC CITE tests, NeoTL Engine for testing WFS, OGC Web APIs and datasets.

ETF is the underlying framework used by the [INSPIRE Reference Validator](#) to validate metadata, datasets and services against the [INSPIRE](#) requirements. ETF is also used extensively in Germany by the Surveying Authorities of the Laender to validate their datasets. Other European Union (EU) Member States are also reusing the ETF to allow their data providers to test resources against national requirements. Finally, some software tools include validation based on the ETF API in their workflow.



The screenshot shows a test report titled "Test run on 18:14 - 31.05.2022 with test suite Common conformance classes". It includes a summary table and a list of conformance classes.

Status	Failed	Total Count	Skipped	Failed	Warnings	Manual	
Started	31/05/2022 16:14:47 GMT	5	0	2	0	2	
Duration	1.357 s	Test cases	12	0	2	0	2
		Assertions	34	0	2	0	4

- + Conformance class: INSPIRE GML encoding [1]
- + Conformance class: Reference systems, General requirements [Failed: 1/2]
- + Conformance class: Information accessibility, General requirements [Failed: 1/1]
- + Conformance class: INSPIRE GML application schemas, General requirements [3]
- + Conformance class: Data consistency, General requirements [2]

Report generated by ETF

<https://www.osgeo.org/projects/etf>

ETF – OSGeoLive

- The ETF was approved for inclusion in the OSGeoLive:
 - [installation script](#), [overview](#) & [quickstart](#) prepared, [translations](#) in multiple languages
 - OSGeoLive v.15 Release Candidate 2 (virtual machine version):
<http://download.osgeo.org/livedvd/releases/15.0/osgeolive-15.0rc2-amd64.vmdk.7z>
 - OSGeoLive v.15 preview: <https://osgeo.github.io/OSGeoLive-doc/en/index.html>



Welcome to OSGeoLive 15.0

OSGeoLive is a self-contained bootable DVD, USB thumb drive or Virtual Machine based on [Lubuntu](#), that allows you to try a wide variety of open source geospatial software without installing anything. It is composed entirely of free software, allowing it to be freely distributed, duplicated and passed around.

It provides pre-configured applications for a range of geospatial use cases, including storage, publishing, viewing, analysis and manipulation of data. It also contains sample datasets and documentation.

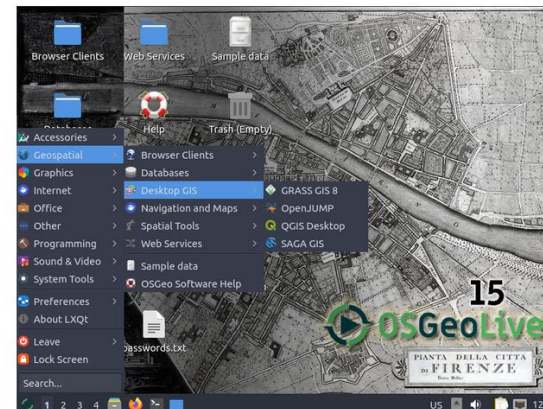
To try out the applications, simply:

1. Insert DVD or USB thumb drive in computer or virtual machine.
2. Reboot computer. (verify boot device order if necessary)
3. Press "Enter" to startup & login.
4. Select and run applications from the "Geospatial" menu.

OSGeoLive is an [OSGeo Foundation](#) project. The OSGeo Foundation is a not-for-profit supporting Geospatial Open Source Software development, promotion and [education](#).

Quick Starts

- [Getting started with OSGeoLive](#)
- [Change language or keyboard type](#)
- [Install OSGeoLive to Hard Disk](#)
- [Running in a Virtual Machine](#)
- [Creating an OSGeoLive Bootable USB flash drive](#)
- [Running in a Hyper-V Virtual Machine](#)
- [Command Line basics](#)



ETF – Opportunities for collaboration

- We are looking for organisations that:
 1. are not yet using the ETF but would like to start using it, either for INSPIRE-specific purposes or for other purposes – **we offer help with the deployment**
 2. are already using the ETF: please share with us
 - a. motivation, scope, description of the instance
 - b. URL (if public)
 - c. source code (if public)
 - d. feedback on the usage, suggestions for improvement
 3. are already using the ETF and are available to **be interviewed** to provide feedback, propose ideas/suggestions for improvement

Thank you!

and special thanks to:

- the team from **Guadaltel, Bilbomatica and Epsilon Italia**
- **Pierpaolo Cira and Alessandro Della Benetta (JRC)**



marco.minghini@ec.europa.eu



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