

# >> Validação INSPIRE

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## Validador INSPIRE aplicado à toponímia



(21 junho de 2017)



André Serronha (DGT)

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Francisco Caldeira (INE)

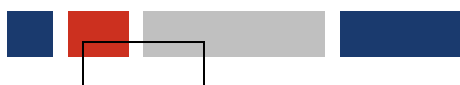
<<

“Workshop” sobre Experiências de Harmonização de dados

>>

## O que é a validação?

- ✓ Os *Abstract Test Suites* (ATS), das especificações de dados do *INSPIRE* definem os conjuntos de testes que devem ser aplicados aos metadados, dados e serviços para avaliar a sua conformidade.
- ✓ A conformidade define o nível em que os metadados, dados e serviços, cumprem a(s) norma(s) correspondente(s) ou especificações.
- ✓ Para estar em total conformidade deve executar e passar todos os ATS definidos nas respectivas especificações
- ✓ Executar os *Executable Test Suites* (ETS) que implementam os ATS especificados pela Diretiva INSPIRE
- ✓ Não existe referência na documentação oficial quanto à forma como os ATS devem ser implementados



## Algumas ferramentas existentes

### ✓ Metadados

- ✓ INSPIRE Geoportal Metadata Validador
- ✓ INSPIRE Validator (development version)

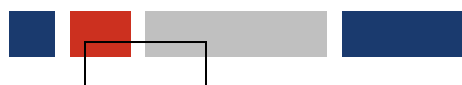
### ✓ Serviços

- ✓ WMS Inspire Tester
- ✓ INSPIRE Validator (development version)

### ✓ Dados - Harmonização (GML)

- ✓ Hale Studio
- ✓ eENVplus (pouco funcional e “parece estar em desuso”)
- ✓ INSPIRE Validator (development version)





## INSPIRE Geoportal Metadata Validador

- ✓ **INSPIRE Geoportal Metadata Validador**
- ✓ Validador online de metadados criado pela CE
  - ✓ <http://inspire-geoportal.ec.europa.eu/validator2/>
- ✓ **Objectivo: Testar conformidade de metadados de conjuntos e serviços de dados, de acordo com o Metadata Technical Guidance**
- ✓ **Interface bastante simples, segue as orientações da directiva INSPIRE, bastante utilizado por utilizadores Portugueses**






# INSPIRE Geoportal Metadata Validador

## ✓ Como utilizar?

[Contact](#) | [Search](#) | [Legal notice](#) English (en) ▼



## INSPIRE GEOPORTAL

Enhancing access to European spatial data

EUROPEAN COMMISSION > INSPIRE > INSPIRE GEOPORTAL > Validator

### INSPIRE Geoportal Metadata Validator

[what's new](#) [change feed](#) [documentation](#) [about](#)

This validator replaces the former [schematron validator](#) and implements the same validation criteria applied during the INSPIRE Geoportal discovery process.

It is possible to use this validator as a Web Service (instructions available [here](#)).

Paste your resource in the text field below  
(ISO 19139 Metadata or OGC Service Endpoint or CSW GetRecords or GetRecordById GET Request or URL to metadata)

Ou copy paste XML nesta área

You can also upload **1** file to test  
Select the file to be tested:  No file chosen

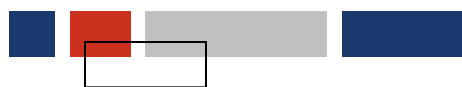
**2**  For security reasons, HTTP resources using ports other than 80, 443 and 8080 cannot be contacted.  
☒ Probe Network Services

DISCLAIMER: This service is used in the context of the INSPIRE Geoportal to perform validation of the metadata of resources discovered through the Member State Discovery Services. It is provided as is and it is not to be considered a full INSPIRE compliance test. While we have tried to ensure compliance with the INSPIRE Regulations and the relevant Technical Guidance documents we do recognise that there may still be issues that will need to be addressed. We would appreciate if you could [report to us](#) any issue you find with this validator so that we can improve it.



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## INSPIRE Geoportal Metadata Validador

- ✓ **Resultados:**
- ✓ **Se forem detetados problemas é fornecida uma lista de elementos inválidos e informação do grau de conformidades dos metadados**
- ✓ **Se não forem detetados problemas, o browser é redirecionado para uma página com a representação dos metadados**
- ✓ **Possível de usar como WebService**

### Tipos de entrada:

- 1. Metadados codificados com norma ISO 19139**
- 2. Serviços de pesquisa: OGC CSW 2.0.2 AP ISO 1.0.1 with INSPIRE Extensions**
- 3. Serviços de visualização: ISO 19128 (OGC WMS 1.3.0), OGC WMS 1.1.1, OGC WMTS 1.0.0 with INSPIRE Extensions**
- 4. Serviços de descarregamento: ATOM, ISO 19142 (OGC WFS 2.0.0) with INSPIRE Extensions**





# INSPIRE Geoportal Metadata Validador



INSPIRE Full Operating Capability, testing

Average degree of conformity of INSPIRE Metadata: 82.35%



Resource Verification Report

A conformidade deve ser superior a 75%

[Go Back To Group Report](#)

[Click here to see the INSPIRE metadata of the resource \(media type: application/vnd.europa.ec.inspire.geoportal.resource+xml\)](#)

## Inspire Validation Issues

- **A keyword defining the INSPIRE Spatial Data Theme is required for Spatial Data Sets and Series but it could not be found**

Relevant documentation:

- See [TG Requirement 14](#) in *INSPIRE Metadata Implementing Rules: Technical Guidelines based on EN ISO 19115 and EN ISO 19119 (Version 1.3)*
- See [If a resource is a spatial data set or spatial data set series](#) in *Commission Regulation (EC) No 1205/2008 of 3 December 2008 implementing Directive 2007/2/EC of the European Parliament and of the Council as regards metadata*

Expert documentation

- [UML Requirement Diagram](#)

- **Information on the degree of conformity with the implementing rules on interoperability of spatial data sets and services is required**

Relevant documentation:

- See [TG Requirement 28](#) in *INSPIRE Metadata Implementing Rules: Technical Guidelines based on EN ISO 19115 and EN ISO 19119 (Version 1.3)*
- See [Metadata for spatial data sets and spatial data set series](#) in *Commission Regulation (EC) No 1205/2008 of 3 December 2008 implementing Directive 2007/2/EC of the European Parliament and of the Council as regards metadata*

Expert documentation

- [UML Requirement Diagram](#)

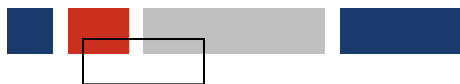
- **The metadata element "Limitations On Public Access" is missing, empty or incomplete but it is required. Hint: ""**

Relevant documentation:

- See *INSPIRE Metadata Implementing Rules: Technical Guidelines based on EN ISO 19115 and EN ISO 19119 (Version 1.3)*
- See *Commission Regulation (EC) No 1205/2008 of 3 December 2008 implementing Directive 2007/2/EC of the European Parliament and of the Council as regards metadata*

Expert documentation

- [UML Requirement Diagram](#)



## WMS INSPIRE Tester

- ✓ **WMS INSPIRE Tester**
- ✓ O *WMS INSPIRE Tester* é um validador que executa um conjunto de testes Online de serviços de visualização (*WMS 1.3.0*)
- ✓ <http://inspire-tester.neogeo-online.net/>
- ✓ Verifica se a resposta de um pedido WMS *GetCapabilities* é compatível com as *Technical guidelines* dos serviços de visualização INSPIRE
- ✓ Não é um validador oficial





# WMS INSPIRE Tester

## ✓ Como funciona?

### WMS INSPIRE tester

Prototype built by Neogeo Technologies ([Contact us](#))

#### WMS Service Identification

Service address to be tested:

Type the URL of the service you want to test

#### Options

☒ Use the cache

Check this box to use the Capabilities stored in the application database

2

Launch



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## WMS INSPIRE Tester

- ✓ O processo de criação de Serviços obedece a um conjunto de numerosas regras que o *WMS INSPIRE Tester* vai verificar.
- ✓ Na lista de resultados são indicados os seguintes erros:
  - ✓ Número de erros críticos
  - ✓ Número de erros não críticos
  - ✓ Número de avisos
  - ✓ Requisito de implementação com problemas



# WMS INSPIRE Tester

Capabilities sum-up

Test results

Raw Capabilities

Debug

Number of critical errors: 0  
Number of non critical errors: 3  
Number of warnings: 1

## 0 - info - Test scope and completeness



This application checks if the WMS GetCapabilities response is compliant to the requirements and recommendations of the INSPIRE view services technical guidances 3.0. It does not test the service against the requirements of the WMS specifications. It focuses on the INSPIRE specificities. At the moment, the test suite is not complete.

## 6 - info - Scenario 1 - TG\_Req#06



An element <inspire\_common:MetadataUrl> is present in the element <inspire\_vs:ExtendedCapabilities>. This makes the publication possible to publish some of the service metadata outside of the Capabilities of the service (see scenario 1 of the INSPIRE view services Technical Guidance). This application does not check the conformance of these external metadata.

## 24.1 - info - Conditions for access and use - 'no conditions apply' and 'conditions unknown' values - TG\_Req#24



If no conditions apply to the access and use of the resource, 'no conditions apply' shall be used. If conditions are unknown 'conditions unknown' shall be used.

## 24.4 - warning - Limitations on public access - <wms:AccessConstraints> - unexpected value - TG\_Req#05



The use of "None" is recommended when no limitations on public access apply. When constraints are imposed, the MD\_RestrictionCode codelist names may be used. None of these values was found.

Found value(s): <None> - Expected value(s): copyright, patent, patentPending, trademark, license, intellectualPropertyRights, restricted, otherRestrictions

## 33.2 - error - Not a harmonised layer title - TG\_Req#33



The title of the following layers are not harmonised.

Layers: Vector Statistical Units

## 39.1 - error - Not a harmonised layer name - TG\_Req#39



The names of the following layers are not harmonised.

Layers: SU.VectorStatisticalUnit

## 47 - error - LegendURL is missing - TG\_Req#47



msg\_desc\_047 LegendURL missing

Layers: None - INE PT Web Map Service BGRI2001 RAM



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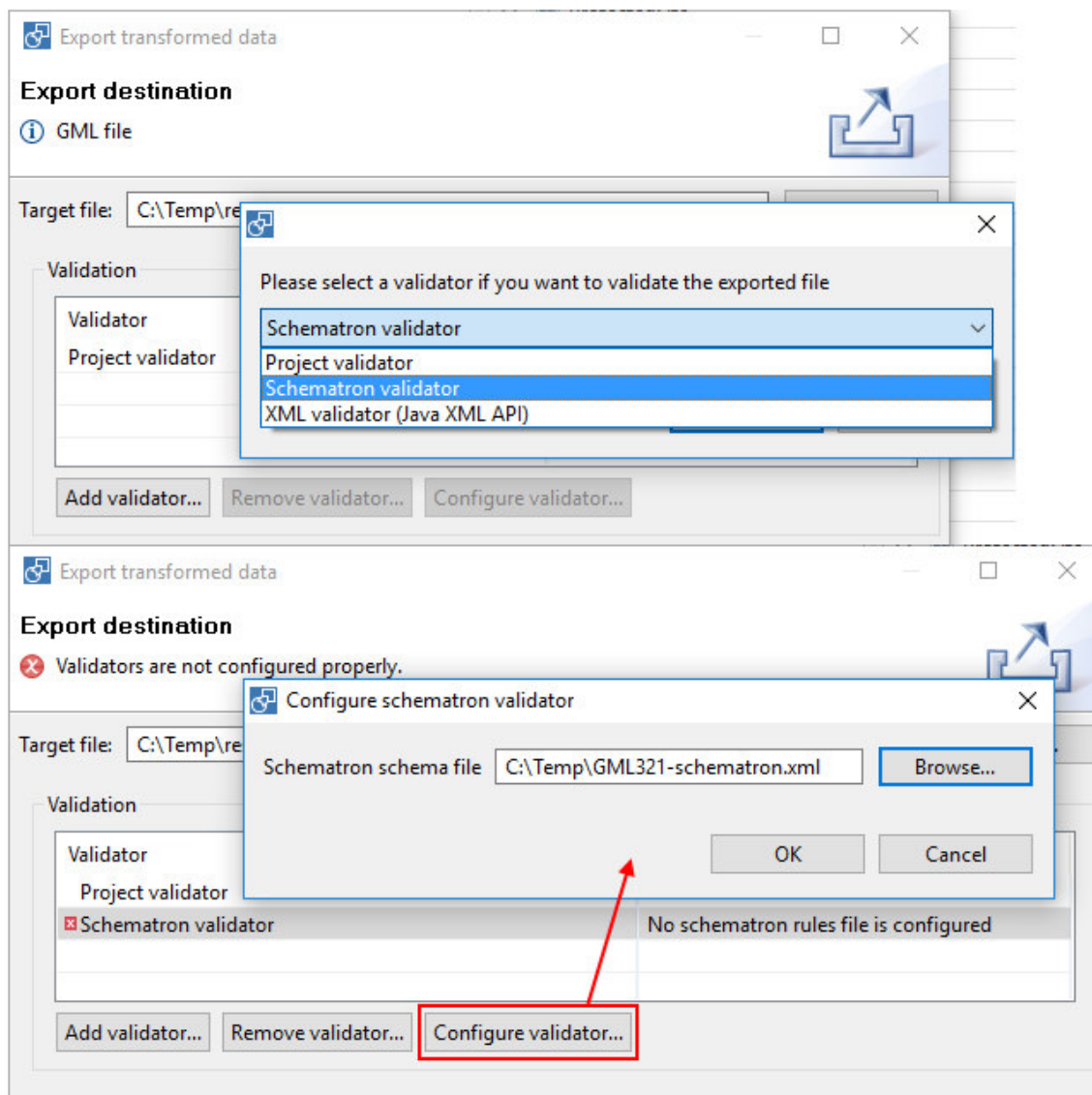


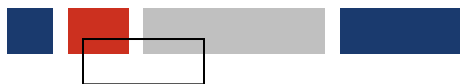
## Dados – Harmonização - Hale Studio

- ✓ **Humboldt Aligment Editor**
- ✓ **Software *Open Source* utilizado para criar relações (mapeamento) entre *schemas* diferentes e aplicar a transformação resultante**
- ✓ **A validação é suportada em *schemas* baseados em XML**
- ✓ **Esta validação pode ser realizada ao exportar o resultado da transformação ou em instâncias carregadas no projeto Hale Studio**
- ✓ **Além desta validação, também é possível ao exportar o resultado validar com o *Schematron*.**
- ✓ **Atenção: O Hale não disponibiliza os *Schematrons***
- ✓ **É produzido um relatório sobre os erros encontrados e o utilizador é informado se o ficheiro criado é válido ou inválido**



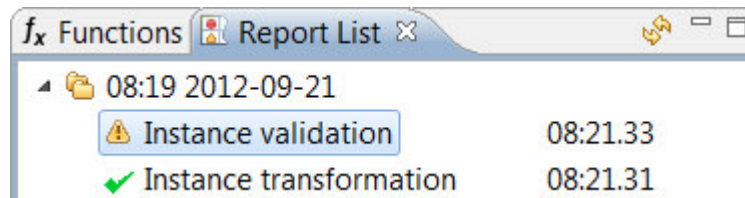
## Dados – Harmonização - Hale Studio



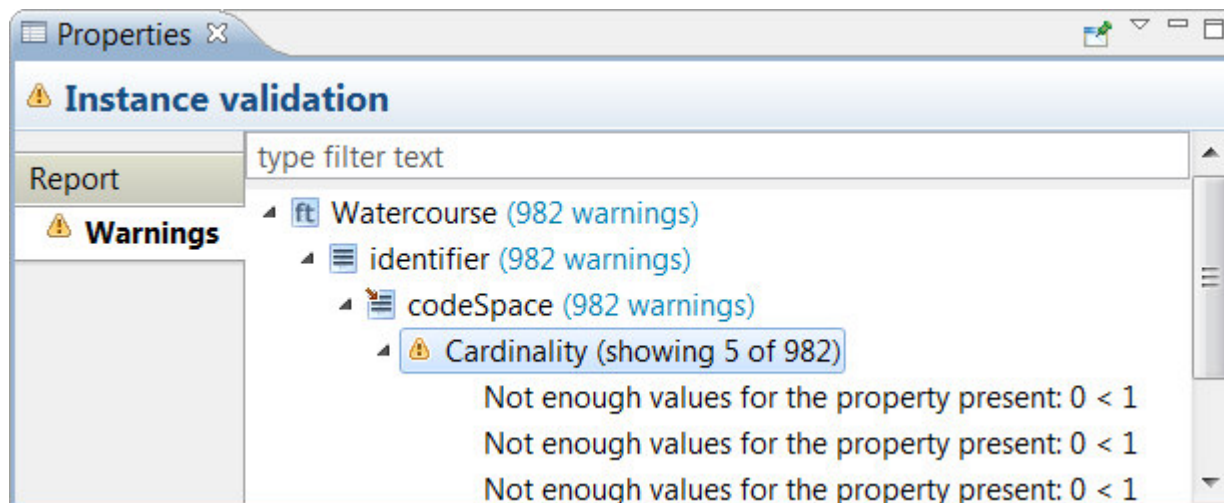


## Dados – Harmonização - Hale Studio

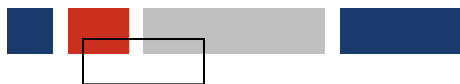
- ✓ **Validação em instâncias carregadas no projeto Hale**
  - ✓ Se existir mapeamento entre *Source* e *target Schema* e estiverem dados carregados, cada nova relação vai despoletar o *Live Transformation* (Se ativado) que vai fazer uma validação baseada no *Schema* em cada instância.



## Dados – Harmonização - Hale Studio



- ✓ Esta validação no projeto do Hale Studio é bastante conveniente, mas pode não ser tão precisa no caso da exportação, para alguns casos.
- ✓ Com muitos registos carregados no projeto pode ser moroso.
- ✓ A exportação pode alterar ligeiramente o resultado, por exemplo, codificações que só são replicadas ao escrever certas propriedades ou identificadores gerados quando não existem.



## INSPIRE Validator (development version)

- ✓ Validador online da CE, ainda em fase de desenvolvimento
- ✓ Tem como objectivo validar:
  - ✓ Serviços de descarregamento (*Atom feed* e *WFS*)
  - ✓ Registos de metadados
  - ✓ Conjunto de dados (harmonizados)

The screenshot shows the INSPIRE Validator (development version) web application. The browser address bar displays the URL `http://35.157.17.37/etf-webapp/testprojects`. The application header includes the title "INSPIRE Validator (development version)" and a navigation bar with links: "Start test", "Test reports", "Status", and "Help". The main content area is titled "Test projects" and features a search bar labeled "Filter items...". Below the search bar, a section titled "Basic tests" lists several conformance classes, each with a plus icon for expansion:

- Conformance class: XML encoding of ISO 19115/19119 metadata
- Conformance class: INSPIRE GML encoding
- Conformance class: GML application schemas, Transport Networks
- Conformance class: GML application schemas, Protected Sites
- Conformance class: GML application schemas, Hydrography
- Conformance class: GML application schemas, Geographical Names





# INSPIRE Validator (development version)

The development version of the INSPIRE validator is available at

<http://35.157.17.37/etf-webapp/>

**username:** \*\*\*\*\*

**password:** \*\*

... mudou de endereço...

## Menu Help:

## Quick start guide

This document serves as a quick start guide for users of the INSPIRE validator.

The INSPIRE requirements to be tested are grouped in several Conformance Classes that cover specific aspects. In order to be conformant to a specific Conformance Class, a service, a metadata record or a data set has to pass all tests that are defined for that Conformance Class. The INSPIRE validator provides a Test Suite for each Conformance Class.

Tests for INSPIRE:

- [Download services](#)
- [Metadata records](#)
- [Data sets](#)

**Serviços de descarregamento (Atom, WFS)**

**Metadados**

**CDG**

Last updated 2017-04-26 16:05:11 CEST

**Serviços de visualização (WMS)**



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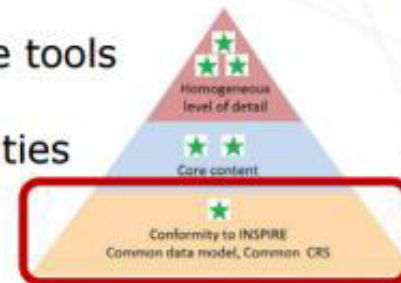


# INSPIRE Validator (development version)

## ETF – A test framework for testing SDI services, datasets and metadata



- Builds on existing, widely used open source tools
- Extends these tools with additional capabilities
- Can be used in multiple ways
  - Tests can be executed using the ETF Web Application or directly in SoapUI or BaseX
  - ELF uses a centrally deployed ETF instance, but local deployments by a service provider are supported, too
- **ETF is the basis of the INSPIRE validator** currently under development for JRC as part of the ARE3NA project to support INSPIRE implementation in the Member States



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FRAMEWORK FOR EUROPE



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Direção-Geral do Território



# INSPIRE Validator (development version)

Manual de instruções: [http://docs.etf-validator.net/User\\_manuals/Simplified\\_workflows.html](http://docs.etf-validator.net/User_manuals/Simplified_workflows.html)



ETF  
testing framework for geo network services and data

## User manual for central deployments

Status	in review
Date	2017-04-20
Description	This manual is intended for users who are using a centrally deployed validator for testing geo network services and data.
Licence	Creative Commons Attribution (cc-by) 4.0
Identifier	<a href="https://github.com/interactive-instruments/etf-webapp/tree/master/docs/User_manuals/Simplified_workflows.adoc">https://github.com/interactive-instruments/etf-webapp/tree/master/docs/User_manuals/Simplified_workflows.adoc</a>
Language	EN

## Changelog

Date	Editor	Comments
2017-04-20	Jon Herrmann	document created

## 1. Scope

This manual is intended for users that are using a centrally deployed validator to test geo network services and data. Services must be accessible via the internet but can be protected with the HTTP basic authentication mechanism. Small test data sets can be uploaded or downloaded by the validator by providing an URL.



The default upload limit for data sets is 500 Megabytes but may be changed by the system administrator.

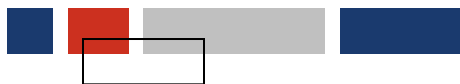
### Table of contents

- User manual for central deployments
- Changelog
- 1. Scope
- 2. Introduction
- 3. Starting tests
  - 3.1. Test Suite selection
  - 3.2. Test Run configuration
    - 3.2.1. File-based Tests
    - 3.2.2. Service Tests
    - 3.2.3. Dependencies and Parameters
- 4. Monitor test runs
- 5. Test Reports
- 6. Inspect test reports



## INSPIRE Validator (development version)

- ✓ Os requisitos INSPIRE testados são agrupados em várias classes de conformidade que cobrem determinados aspectos específicos
- ✓ Para estar conforme com uma classe de conformidade (registo de metadados, CDG ou SDG) deve passar em todos os testes definidos para essa classe de conformidade
- ✓ O INSPIRE Validator disponibiliza um *Test Suite* para cada classe de conformidade



## INSPIRE Validator (development version)

- ✓ Como funciona?
- ✓ Deve indicar o teste que pretende executar e clicar em **Start**

Metadata

Conformance class: Metadata for interoperability

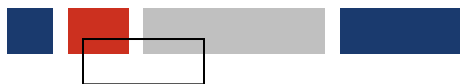
**Description:**  
This test suite examines metadata records against the requirements for metadata for interoperability in INSPIRE.  
  
**This is a draft version. It has limitations and is expected to contain errors.** Please report any issues or problems [in GitHub](#).  
  
Known limitations are documented in the description of the applicable test case or test assertion.  
  
Source: [Conformance class 'Metadata for interoperability'](#)  
  
Pre-requisite conformance classes:

- [Conformance Class 'INSPIRE Profile based on EN ISO 19115 and EN ISO 19119'](#)

  
Tags:

- Metadata

**1** Start ➔



## INSPIRE Validator (development version)

✓ Como funciona? Para qualquer teste...

INSPIRE Validator (development version)

Start test Test reports Status Help

### Test run configuration

Label: Test run on 14.06.2017 - 12:02 with executable test suite 'Conformance class: Metadata for...

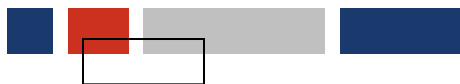
1 ZIP or XML file ? C:\tmp\BGRI2011\_PT\_CONTINENTAL.xml Browse...

tests\_to\_execute ? \*

files\_to\_test ? \*

2 Start ➔

etf WebApp 2.0.0-b160923T1505



## INSPIRE Validator (development version)

- ✓ Resultado é um relatório onde...
- ✓ No topo aparece informação generalizada, com resultados gerais, designação do teste, duração
- ✓ Na próxima versão será possível voltar a abrir o relatório ou gravar com HTML

Resultados gerais do relatório

Número de testes que falharam, avisos, ou verificações manuais

Personalização do relatório, mais ou menos detalhado, filtrar apenas erros ou verificações manuais

Test run on 14.06.2017 - 12:02 with executable test suite 'Conformance class: Metadata for interoperability'

Status	Passed, manual checks required	Total	Skipped	Failed	Warnings	Manual
Duration	3 s	Test suites	3	0	0	2
		Test cases	10	0	0	3
		Assertions	36	0	0	4

Show

Level of detail

☒ All ☐ Only failed ☐ Only manual

☐ All details ☐ Less information ☒ Simplified




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## INSPIRE Validator (development version)

- ✓ Os resultados estão organizados de uma forma hierárquica. Ao nível mais alto estão os *Test Suites* (Conjunto de testes).
- ✓ Ao clicar em um *Test Suites* , surge uma descrição e todos os testes de nível inferior nesse conjunto são mostrados.
- ✓ As falhas num *Test Suite* podem ser imediatamente reconhecidas pela cor vermelha. O número de falhas ou erros é mostrado no canto superior direito.
- ✓ Em caso de erro ou validações manuais é indicado o que deve corrigir ou verificar manualmente, assim como o enquadramento teórico/legal







## INSPIRE Validator (development version)

✓ O Relatório utiliza um sistema de cores em que:

✓ Verde – passou nos testes

+ Conformance class: XML encoding of ISO 19115/19119 metadata

1

✓ Laranja – Necessita de verificações manuais.

Alguns requisitos de conformidade dificilmente serão automatizados, por outro lado os testes podem ser ignorados se dependerem de outros testes que já deram erro.

+ Conformance class: INSPIRE Profile based on EN ISO 19115 and EN ISO 19119

8

✓ Vermelho – Testes que deram erro

+ Conformance class: Reference systems, General requirements

Failed: 1 / 2



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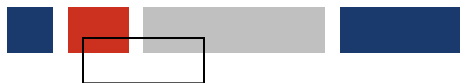
## INSPIRE Validator (development version)

- ✓ **Testar registos de metadados**
- ✓ Os *metadata test Suites* estão na categoria *metadata*
- ✓ Implementam *Technical guidance version 1.3*, versão 2.0 ainda não é suportada
- ✓ É possível testar um ou mais ficheiros de metadados ISO19115/19119
- ✓ Pode ser feito um *upload* dos ficheiros ou indicar um url



Metadata	
Conformance class: Metadata for interoperability	+
Conformance class: INSPIRE Profile based on EN ISO 19115 and EN ISO 19119	+





# INSPIRE Validator (development version)

## ✓ Testar registos de metadados

### Testing metadata records

The Metadata test suites are located in the category *Metadata (Technical Guidance version 1.3)*.

**NOTE** Version 2.0 of the technical guidance is not yet supported.

To test one or multiple ISO 19115/19119 metadata encoded in XML files, click on the 'use' flip switch on the right-hand side of the Test Suite **Conformance class: Metadata for interoperability**. Afterwards click on "Start".

The files can either be uploaded or used remotely by the INSPIRE validator by providing an URL.

**NOTE** The Validator only accepts files with XML and GML file ending and ZIP files containing these two file types. All other files like schema files can not be used and are silently ignored by the Validator.



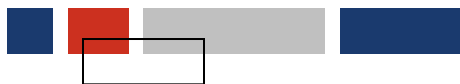
## INSPIRE Validator (development version)

- ✓ **Testar Conjunto de dados**
- ✓ **Existem sete categorias para os temas de dados do Anexo I, uma para cada um dos seguintes temas:**
  1. Endereços
  2. Unidades administrativas
  3. Parcelas cadastrais
  4. Toponímia
  5. Hidrografia
  6. Sítios protegidos
  7. Redes de transporte
- ✓ **A categoria *Interoperable data sets in GML* contém *Test Suites* para classes de conformidade aplicáveis a todos os temas (Anexo I a III) codificados em GML.**
- ✓ **Todos os conjuntos de teste do Anexo I invocam automaticamente os conjuntos de testes nesta categoria.**



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# INSPIRE Validator (development version)

## Testing data sets

## ✓ Testar Conjunto de dados

### File upload

If the files are locally stored on your system use the *Data source* selector in the *Configure Test Run* dialog and select **File Upload**.

After clicking on **Choose files** one or multiple files can be selected. The files are uploaded and the **Choose files** button becomes inactive. Once the upload finishes, the **Start** button can be clicked to start the test.

Further steps are described in the [standard manual](#).

### Reference remote files by URL

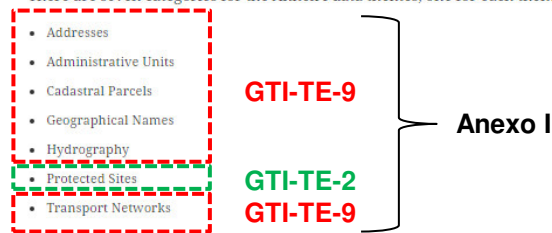
If the data is available on the web, they can be tested by entering a single URL. Use the *Data source* selector and select **Remote file (URL)** in the *Configure Test Run* dialog.

Then enter the URL to either one XML, GML or ZIP file - or the URL of a query to your download service that returns one of these file types. If the URL requires authentication, username and password can be provided by clicking on *Credentials*.

Afterwards start the test by clicking on **Start**

Further steps are described in the [standard manual](#).

There are seven categories for the Annex I data themes, one for each theme that specifies spatial objects:



Additionally, there is the *Interoperable data sets in GML* category which contains test suites for conformance classes applicable to all interoperable data sets encoded in GML, for any INSPIRE data theme. All Annex I test suites invoke automatically the test suites in this category.

To validate an INSPIRE data set in GML for full conformance, select all test suites in the appropriate category. For example, for a data set containing addresses scroll to the **Data Theme: Addresses (Data Specification version 3.1)** category and select all 4 conformance classes by clicking on the 'use' flip switch on the right-hand side:

- Application schema, Addresses
- Data consistency, Addresses
- Information accessibility, Addresses
- Reference systems, Addresses

Afterwards click on the **Start** button.

The files can either be uploaded or used by the INSPIRE validator by providing a URL.

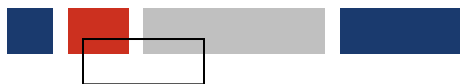
#### NOTE

The Validator only accepts files with XML and GML file extension and ZIP files containing these two file types. All other files like schema files cannot be used and are silently ignored by the Validator!



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## INSPIRE Validator (development version)

- ✓ **Testar Conjunto de dados (aplicado à Toponímia – anexo I)**
- ✓ Para um conjunto de dados INSPIRE, codificado em GML, estar em total conformidade deve executar e passar todos os *Test Suites* na categoria apropriada.
- ✓ Por exemplo, para um CDG de toponímia deve ir à categoria:
  - ✓ **Basic tests** - Este conjunto de testes examina a codificação GML de objetos espaciais especificados nos esquemas de aplicação INSPIRE GML “Nomes geográficos”
  - ✓ **Data Theme: Geographical Names** e executar as 4 classes de conformidade

Data Theme: Geographical Names	
Conformance class: Information accessibility, Geographical Names	+
Conformance class: Application schema, Geographical Names	+
Conformance class: Reference systems, Geographical Names	+
Conformance class: Data consistency, Geographical Names	+







# INSPIRE Validator (development version)

## ✓ Testar Conjunto de dados (Toponímia)

INSPIRE Validator (development version)

Start test

Test reports

Status

Help

### Test projects

Filter items...

Basic tests

Conformance class: XML encoding of ISO 19115/19119 metadata

Conformance class: INSPIRE GML encoding

Conformance class: GML application schemas, Transport Networks

Conformance class: GML application schemas, Protected Sites

Conformance class: GML application schemas, Hydrography

Conformance class: GML application schemas, Cadastral Parcels

Conformance class: GML application schemas, Administrative Units

Conformance class: GML application schemas, Addresses

Conformance class: Application schema, Transport Networks Common

Conformance class: GML application schemas, Geographical Names

**Description:**

This test suite examines the GML encoding of spatial objects specified in the INSPIRE GML application schema.

**This is a draft version. It has limitations and is expected to contain errors.** Please report any known limitations in the description of the applicable test case or test assertion extension is the same as the name of the feature type in the INSPIRE application schema.

Source: [Conformance Class 'GML application schemas, Geographical Names'](#)

Pre-requisite conformance classes:

- Conformance Class 'INSPIRE GML application schemas'

**Tags:**

- Basic tests

Start

**Conformance class: GML application schemas, Geographical Names (DRAFT)**

Conformance class for the GML encoding of spatial objects specified in the INSPIRE GML application schema 'Geographical Names'. This conformance class examines the data set against requirements associated with the GML application schema. Both currently approved GML application schema versions (3.0 and 4.0) are tested.

This conformance class is part of the [Abstract Test Suite for the INSPIRE Data Specification on Geographical Names](#).

**Standardization target type**

INSPIRE spatial data set encoded in GML, Geographical Names

**Dependencies**

A direct dependency is another conformance class whose requirements are a prerequisite for this conformance class.

Specification	Conformance class	Parameter
TG DS Template	INSPIRE GML application schemas	n/a

**Indirect dependencies**

n/a

**External document references**

The following abbreviations are used in the test text for referring to the documents:

Abbreviation	Document name
TG DS-GN	INSPIRE Data Specification on Geographical Names – Technical Guidelines version 3.1
TG DS Template	INSPIRE Data Specification Template version 3.0rc3

**Test Cases**

Identifier	Status	Test case in TG DS-GN
Basic test	ready for review	A.1.1, (A.6.1)

**XML namespace prefixes**

The following prefixes are used to refer to the corresponding XML namespace:

Prefix	Namespace
gn	<a href="http://inspire.ec.europa.eu/schemas/gn/4.0">http://inspire.ec.europa.eu/schemas/gn/4.0</a> or <a href="http://inspire.ec.europa.eu/schemas/gn/3.0">http://inspire.ec.europa.eu/schemas/gn/3.0</a>

**INSPIRE**

TWG-GN	Data Specification on Geographical Names	2014-04-17	Page 59
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**A.1.7 Geometry representation test**

a) **Purpose:** Verification whether the value domain of spatial properties is restricted as specified in the Commission Regulation No 1089/2010.

b) **Reference:** Art.12(1) of Commission Regulation No 1089/2010

c) **Test Method:** Check whether all spatial properties only use 0, 1 and 2-dimensional geometric objects that exist in the right 2-, 3- or 4-dimensional coordinate space, and where all curve interpolations respect the rules specified in the reference documents.

**NOTE** Further technical information is in OGC Simple Feature spatial schema v1.2.1 [06-103r4].

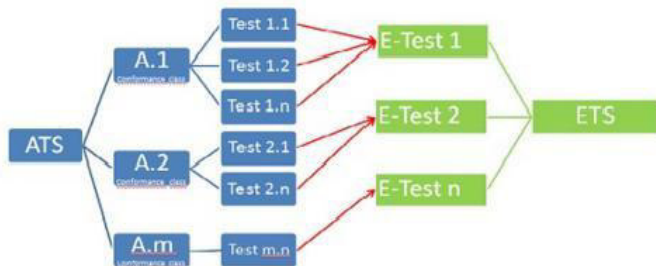
**Test Cases**

Identifier	Status	Test case in TG DS Template
Schema	ready for review	A.1.1
Schema validation	ready for review	A.1.1, A.1.2, A.1.3, A.1.4, A.1.5, A.3.2, (A.6.1), A.8.1, A.9.5
GML model	ready for review	A.1.3, (A.6.1), A.9.5
Simple features	ready for review	A.1.7
Code list values	ready for review	A.1.3 in TG DS-GN
Constraints	ready for review	A.1.6 in TG DS-GN

# INSPIRE Validator (development version)

## ✓ Testar Conjunto de dados

### (Toponímia)



#### Anexo A das especificações de dados

- Abstract Test Suite (ATS):
  - Grupo 1 – normativo
  - Grupo 2 – informativo
- Agrupados em diferentes classes de conformidade
- Executable Test Suites (ETS):
  - implementam os ATS especificados pela Diretiva INSPIRE

#### Validação automática do GML com os seguintes esquemas:

- GeographicalNames.xsd (valida o GML application schema)
- GML Schematron 3.2.1 (valida a estrutura do GML 3.2.1 – ISO 19136)
- Schematron temático (valida o “conteúdo dos dados”)

#### Validação manual do GML

- Verificação manual da existência no gml, das características especificadas pelos ATS

**Estrutura do GML (3.2.1)** - Verifica a conformidade do CDG com as especificações do GML (encoding rules), versão 3.2.1 no caso do INSPIRE. O ficheiro schematron constraints contém as especificações para o GML 3.2.1 de acordo com a ISO 19136 e encontra-se disponível no seguinte endereço:  
<http://schemas.opengis.net/gml/3.2.1/SchematronConstraints.xml>

**Schematron** - linguagem de validação baseada em regras que verificam a presença ou ausência de padrões nas estruturas XML.

ATS	Conformance classes	Abstract Tests	Related ET
Part 1 (normative)	A.1 Application Schema Conformance Class	A.1.1 Schema element denomination test	E.1
		A.1.2 Value type test	E.1
		A.1.3 Value test *	E.1
		A.1.4 Attributes/Associations completeness test	E.1
		A.1.5 Abstract spatial object test	E.1
		A.1.6 Constraints test *	E.1
		A.1.7 Geometry representation test*	E.1
	A.2 Reference Systems Conformance Class	A.2.1 Datum test *	E.1
		A.2.2 Coordinate reference system test *	E.1
		A.2.3 Grid test	E.2
		A.2.4 View service CRS test	E.2
		A.2.5 Temporal reference system test	E.2
		A.2.6 Units of measurements test	E.2
	A.3 Data Consistency Conformance Class	A.3.1 Unique identifier persistency test	E.3
		A.3.2 Version consistency test	E.3
		A.3.3 Life cycle time sequence test*	E.1
		A.3.4 Validity time sequence test *	E.1
		A.3.5 Update frequency test	E.3
	A.4 Metadata IR Conformance Class	A.4.1 Metadata for interoperability test	E.4
	A.5 Information Accessibility Conformance Class	A.5.1 Code list publication test	E.5
		A.5.2 CRS publication test *	E.1
		A.5.3 CRS identification test *	E.1
		A.5.4 Grid identification test	E.5
	A.6 Data Delivery Conformance Class	A.6.1 Encoding compliance test	E.1
	A.7 Portrayal Conformance Class	A.7.1 Layer designation test	E.6
Part 2 (informative)	A.8 Technical Guideline Conformance Class	A.8.1 Multiplicity test	E.1
		A.8.2 CRS http URI test	E.7
		A.8.3 Metadata encoding schema validation test	E.8
		A.8.4 Metadata occurrence test	E.8
		A.8.5 Metadata consistency test	E.8
		A.8.6 Encoding schema validation test	E.1
		A.8.7 Coverage multipart representation test	E.9
		A.8.8 Coverage domain consistency test	E.9
		A.8.9 Style test	E.10





# INSPIRE Validator (development version)

## ✓ Testar Conjunto de dados (Toponímia)

Test run on 20.06.2017 - 15:32 with executable test suite 'Conformance class: GML application schemas, Geographical Names'

Report URI	Link	Total	Skipped	Failed	Warnings	Manual	
Status	Failed	Test suites	3	0	1	0	0
Started	20/06/2017 14:33:06 GMT	Test cases	8	0	1	0	1
Duration	43 s	Assertions	27	0	4	0	2
Log URI	Link						

Show: ☒ All ☐ Only failed ☐ Only manual

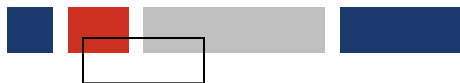
Level of detail: ☒ All details ☐ Less information ☐ Simplified

- Parameters
- Test object: GN\_entidades\_Portugal.gml
- Feature statistics
- Log file: Conformance class: INSPIRE GML encoding
- Log file: Conformance class: INSPIRE GML application schemas, General requirements
- Log file: Conformance class: GML application schemas, Geographical Names

- + Conformance class: INSPIRE GML encoding 1
- + Conformance class: INSPIRE GML application schemas, General requirements Failed: 1 / 6
- + Conformance class: GML application schemas, Geographical Names 1

Report generated by ETF





# INSPIRE Validator (development version)

## ✓ Testar Conjunto de dados (Toponímia) – Avaliar erros

### Code list values in basic data types

Failed: 4 / 4

Verify whether all attributes whose value type is a code list take the values set out therein. This is usually part of the tests of the corresponding application schema. However, for data types that are used across the INSPIRE application schemas, this is best done in this test suite to avoid duplicating the same test in many test suites. The relevant data types for the Annex I data themes with code list values are: GeographicalName.

Status Failed  
Duration 2.686 s

#### gmlas.e.1: GrammaticalNumber attributes

#### gmlas.e.2: GrammaticalGender attributes

#### gmlas.e.3: NameStatus attributes

When an attribute has a code list as its type, verify that the values comply with the definitions and include the values set out in Annex II of the regulation in code list <http://inspire.ec.europa.eu/codelist/NameStatusValue>. For datasets using version 3 of the GML application schema, the value is the last path element of the code list value URI and it is in the child text node. In the GML application schema, the value is in the xlink:href XML attribute and is the HTTP URI of the code list value.

#### Relevant requirements:

- IR Requirement Article 4 (1): Types for the Exchange and Classification of Spatial Objects. For the exchange and classification of spatial objects, Member States shall use the spatial object types and associated data types, enumerations and code lists that are specified in the relevant INSPIRE Technical Specification.
- IR Requirement Article 4 (3): Types for the Exchange and Classification of Spatial Objects. The enumerations and code lists used in attributes of spatial objects shall comply with the definitions and include the values set out in Annex II. The enumeration and code list values are uniquely identified by their URI. The values may also include a language-specific name to be used for human interaction.
- IR Requirement Article 6 (1): Code Lists and Enumerations. Codelists shall be of one of the following types, as specified in the Annexes:
  - code lists whose allowed values comprise only the values specified in this Regulation;
  - code lists whose allowed values comprise the values specified in this Regulation and narrower values defined by data providers;
  - code lists whose allowed values comprise the values specified in this Regulation and additional values at any level defined by data providers;
  - code lists, whose allowed values comprise any values defined by data providers.For the purposes of points 2, 3 and 4, in addition to the allowed values, data providers may use the values specified in the relevant INSPIRE Technical Specification web site of the Joint Research Centre.
- IR Requirement Article 6 (2): Code Lists and Enumerations. Code lists may be hierarchical. Values of hierarchical code lists may have a more general value specified in a table in this Regulation, the parent values are listed in the last column.
- IR Requirement Article 6 (3): Code Lists and Enumerations. Where, for an attribute whose type is a code list as referred to in points 2, 3 or 4 of this Regulation, that value and its definition shall be made available in a register.
- IR Requirement Article 6 (4): Code Lists and Enumerations. Attributes or association roles of spatial object types or data types whose type is a code list shall be defined according to the specification of the code list.

Source: [Abstract Test Case 'Code list values'](#)

Status Failed  
Duration 0.436 s

#### Messages

There are too many errors to determine all errors. Only the first 1000 errors in the system under test are analysed. The dataset has 1000 feature(s) with errors for this assertion.

XML document 'GN\_entidades\_Portugal.gml', NamedPlace 'PT.GN.29818': The property 'nameStatus' has a value 'official' that is not one of the allowed values listed at <http://inspire.ec.europa.eu/codelist/NameStatusValue>.  
XML document 'GN\_entidades\_Portugal.gml', NamedPlace 'PT.GN.29819': The property 'nameStatus' has a value 'official' that is not one of the allowed values listed at <http://inspire.ec.europa.eu/codelist/NameStatusValue>.  
XML document 'GN\_entidades\_Portugal.gml', NamedPlace 'PT.GN.29820': The property 'nameStatus' has a value 'official' that is not one of the allowed values listed at <http://inspire.ec.europa.eu/codelist/NameStatusValue>.  
XML document 'GN\_entidades\_Portugal.gml', NamedPlace 'PT.GN.29821': The property 'nameStatus' has a value 'official' that is not one of the allowed values listed at <http://inspire.ec.europa.eu/codelist/NameStatusValue>.

### Code list values

Version: 1

Purpose: Verify whether all attributes whose value type is a code list take the values set out therein

Prerequisites

Test method

When an attribute has a code list as its type, verify that the values comply with the definitions and include the values set out in Annex II of the regulation. To pass this tests that any instance of an attribute

- takes only values explicitly specified in the INSPIRE code list register when the code list's extensibility is 'none'.

Otherwise report [disallowedCodeListValue](#).

For the commonly used data types, the following properties have to be tested:

- Nativeness (v3) in GeographicalName. Valid values:
  - endonym
  - exonym
- Nativeness (v4) in GeographicalName. Valid values:
  - <http://inspire.ec.europa.eu/codelist/NativenessValue/endonym>
  - <http://inspire.ec.europa.eu/codelist/NativenessValue/exonym>
- NameStatus (v3). Valid values:
  - official
  - standardised
  - historical
  - other
- NameStatus (v4) in GeographicalName. Valid values:
  - <http://inspire.ec.europa.eu/codelist/NameStatusValue/historical>
  - <http://inspire.ec.europa.eu/codelist/NameStatusValue/official>
  - <http://inspire.ec.europa.eu/codelist/NameStatusValue/other>
  - <http://inspire.ec.europa.eu/codelist/NameStatusValue/standardised>

INSPIRE Geographical Names 3.0



INSPIRE Geographical Names 4.0



# INSPIRE Validator (development version)

## ✓ Testar Conjunto de dados (Toponímia)

### ✓ exemplo da classe *Reference systems*

Data Theme: Geographical Names

Conformance class: Information accessibility, Geographical Names

Conformance class: Application schema, Geographical Names

**Conformance class: Reference systems, Geographical Names**

**Description:**

This test suite examines a data set against the theme-specific requirements related to spatial reference systems (spatial and temporal, units of measurement).

**This is a draft version. It has limitations and is expected to contain errors.** problems [in GitHub](#).

Known limitations are documented in the description of the applicable test case or limitation in all assertions that extensions in additional application schemas are or name of the feature type in the extension is the same as the name of the feature schema.

Source: [Conformance Class 'Reference systems, Geographical Names'](#)

Pre-requisite conformance classes:

- [Conformance Class 'Reference systems'](#)

**Tags:**

- Data Theme: Geographical Names

Start →

Conformance class: Data consistency, Geographical Names

#### Conformance class: Reference systems (DRAFT)

Conformance class for general requirements associated with reference systems (spatial and temporal, units of measurement).

To be able to test this conformance class, the encoding of the data set must be known, i.e. this is a parameterized conformance class. The XPath expressions used in this test suite assume that the GML encoding is used. If used with the GML encoding this conformance class has an indirect dependency to the conformance class "INSPIRE GML application schemas".

This conformance class is part of the [Abstract Test Suite for the INSPIRE Data Specification Template](#).

#### Standardization target type

INSPIRE spatial data set

#### Dependencies

##### Direct dependencies

none

##### Indirect dependencies

An indirect dependency is another conformance class whose requirements must be met by a related resource.

Specification	Conformance class	Related resource	Parameters
TG_DS_tmpl	INSPIRE GML application schemas	INSPIRE spatial data set encoded in GML	n/a

#### External document references

The following abbreviations are used in the test text for referring to external documents:

Abbreviation	Document name
TG_DS_Template	INSPIRE Data Specification Template version 3.0rc3

#### Test Cases

Identifier	Status	Test case in TG_DS_Template
Spatial reference systems	ready for review	A.2.1, A.2.2, A.6.2, A.6.3, A.9.1
Temporal reference systems	ready for review	A.2.5

## Spatial reference systems

Version: 1

**Purpose:** Verify that all references to spatial coordinate reference systems in INSPIRE data sets.

#### Prerequisites

#### Test method

- Verify that all references to coordinate reference systems in listed in TG requirement 2, otherwise report [unknownCRS1](#).
- Verify that all references to coordinate reference systems in one of the [crsuris](#) listed in TG requirement 2. Otherwise report

The list of valid coordinate reference system identifiers:

- <http://www.opengis.net/def/crs/EPSSG/0/4936>
- <http://www.opengis.net/def/crs/EPSSG/0/4937>
- <http://www.opengis.net/def/crs/EPSSG/0/4258>
- <http://www.opengis.net/def/crs/EPSSG/0/3035>
- <http://www.opengis.net/def/crs/EPSSG/0/3034>
- <http://www.opengis.net/def/crs/EPSSG/0/3038>
- <http://www.opengis.net/def/crs/EPSSG/0/3039>
- <http://www.opengis.net/def/crs/EPSSG/0/3040>
- <http://www.opengis.net/def/crs/EPSSG/0/3041>
- <http://www.opengis.net/def/crs/EPSSG/0/3042>
- <http://www.opengis.net/def/crs/EPSSG/0/3043>
- <http://www.opengis.net/def/crs/EPSSG/0/3044>
- <http://www.opengis.net/def/crs/EPSSG/0/3045>
- <http://www.opengis.net/def/crs/EPSSG/0/3046>
- <http://www.opengis.net/def/crs/EPSSG/0/3047>
- <http://www.opengis.net/def/crs/EPSSG/0/3048>
- <http://www.opengis.net/def/crs/EPSSG/0/3049>
- <http://www.opengis.net/def/crs/EPSSG/0/3050>
- <http://www.opengis.net/def/crs/EPSSG/0/3051>
- <http://www.opengis.net/def/crs/EPSSG/0/5730>
- <http://www.opengis.net/def/crs/EPSSG/0/7409>





## INSPIRE Validator (development version)

### ✓ Testar Conjunto de dados (Toponímia)

- ✓ **Data Theme: Geographical Names** - executar as 4 classes de conformidade (exemplo da classe *Reference systems*)

Test run on 20.06.2017 - 16:58 with executable test suite 'Conformance class: Reference systems, Geographical Names'

Status	Failed	Duration	Total	Skipped	Failed	Warnings	Manual	
		1.536 s	Test suites	3	0	1	0	0
			Test cases	4	0	1	0	0
			Assertions	7	0	1	0	0

Show: ☒ All ☐ Only failed ☐ Only manual

Level of detail: ☐ All details ☐ Less information ☒ Simplified

- + Conformance class: INSPIRE GML encoding 1
- + Conformance class: Reference systems, General requirements Failed: 1 / 2
- + Conformance class: Reference systems, Geographical Names 1

Report generated by ETF



# INSPIRE Validator (development version)

## ✓ Testar Conjunto de dados (Toponímia)

### Notas:

- WMS, WFS podem conter vários sistemas de referência de coordenadas;

**GML -> coordenadas num único sistema de referência de coordenadas**

### Utilizar em PT Continental:

- TG Requirement 2: The following identifiers shall be used for referring to the coordinate reference systems:
  - <http://www.opengis.net/def/crs/EPSG/0/4936>
  - <http://www.opengis.net/def/crs/EPSG/0/4937>
  - <http://www.opengis.net/def/crs/EPSG/0/4258>
  - <http://www.opengis.net/def/crs/EPSG/0/3034>
  - <http://www.opengis.net/def/crs/EPSG/0/3035>
  - <http://www.opengis.net/def/crs/EPSG/0/3038>
  - <http://www.opengis.net/def/crs/EPSG/0/3039>
  - <http://www.opengis.net/def/crs/EPSG/0/3040>
  - <http://www.opengis.net/def/crs/EPSG/0/3041>
  - <http://www.opengis.net/def/crs/EPSG/0/3042>
  - <http://www.opengis.net/def/crs/EPSG/0/3043>
  - <http://www.opengis.net/def/crs/EPSG/0/3044>
  - <http://www.opengis.net/def/crs/EPSG/0/3045>
  - <http://www.opengis.net/def/crs/EPSG/0/3046>
  - <http://www.opengis.net/def/crs/EPSG/0/3047>
  - <http://www.opengis.net/def/crs/EPSG/0/3048>
  - <http://www.opengis.net/def/crs/EPSG/0/3049>
  - <http://www.opengis.net/def/crs/EPSG/0/3050>
  - <http://www.opengis.net/def/crs/EPSG/0/3051>
  - <http://www.opengis.net/def/crs/EPSG/0/5730>
  - <http://www.opengis.net/def/crs/EPSG/0/7409>



Source: [Abstract Test Case 'Spatial reference systems'](#)

#### Spatial reference systems

Failed: 1 / 2

Verify that all references to spatial coordinate reference systems are using one of the http URIs approved for use in INSPIRE data sets.

Status Failed

Duration 0.002 s

Test case ID EID3f6ab9e4-f76b-4043-9e0d-498293f41972

#### rs.a.1: Spatial reference systems in feature geometries

Verify that all references to coordinate reference systems in the features (srsName) use one of the approved CRS URIs listed in TG requirement 2.

Relevant requirements:

- IR Requirement Annex II Section 1.2: Datum for three-dimensional and two-dimensional coordinate reference systems. For the three-dimensional and two-dimensional coordinate reference systems and the horizontal component of compound coordinate reference systems used for making spatial data sets available, the datum shall be the datum of the European Terrestrial Reference System 1989 (ETRS89) in areas within its geographical scope, or the datum of the International Terrestrial Reference System (ITRS) or other geodetic coordinate reference systems compliant with ITRS in areas that are outside the geographical scope of ETRS89. Compliant with the ITRS means that the system definition is based on the definition of the ITRS and there is a well documented relationship between both systems, according to EN ISO 19111.
- IR Requirement Annex II Section 1.3: Datum for three-dimensional and two-dimensional coordinate reference systems. Spatial data sets shall be made

#### Messages

There are too many errors to determine all errors. Only the first 1000 errors in the system under test are analysed.  
The dataset has 1000 feature(s) with errors for this assertion.

XML document 'GN\_entidades\_Portugal.gml', NamedPlace 'PT.GN.29818': A spatial geometry uses an unexpected coordinate reference system 'http://www.opengis.net/def/crs/EPSG/0/3763'.  
XML document 'GN\_entidades\_Portugal.gml', NamedPlace 'PT.GN.29819': A spatial geometry uses an unexpected coordinate reference system 'http://www.opengis.net/def/crs/EPSG/0/3763'.  
XML document 'GN\_entidades\_Portugal.gml', NamedPlace 'PT.GN.29820': A spatial geometry uses an unexpected coordinate reference system 'http://www.opengis.net/def/crs/EPSG/0/3763'.



**EPSG:3763**



## INSPIRE Validator (development version)

- ✓ **Testar Conjunto de dados (anexo I, II e III)**
- ✓ A categoria *Interoperable data sets in GML* contém *Test Suites* para classes de conformidade aplicáveis a todos os temas (Anexo I a III) codificados em GML.

Interoperable data sets in GML	
Conformance class: Reference systems, General requirements	+
Conformance class: INSPIRE GML application schemas, General requirements	+
Conformance class: Information accessibility, General requirements	+
Conformance class: Data consistency, General requirements	+



## INSPIRE Validator (development version)

### ✓ Testar Serviços de descarregamento

### ✓ Ainda não está disponível



- ✓ Será possível testar serviços com os requerimentos **Pre-Defined Dataset Download Service using Atom** ou ***Pre-Defined Dataset Download Service using WFS***
- ✓ Os testes estão na categoria **Download Services** (technical guidance version 3.1)
  - ✓ As classes de conformidade para ***Direct Access Download Service using WFS*** não especificam requisitos adicionais ao ***OGC Web Feature Service standard***. Desta forma não é fornecido nenhum conjunto de testes.







# INSPIRE Validator (development version)

## ✓ Testar Serviços de descarregamento

### Testing download services

You can either test a service against the requirements related to the *Pre-Defined Dataset Download Service using Atom* or test a service against the requirements related to the *Pre-Defined Dataset Download Service using WFS*.

#### NOTE

The conformance class for a *Direct Access Download Service using WFS* does not specify any requirements in addition to the requirements in the OGC Web Feature Service standard. Therefore, currently not test suite is provided for this conformance class until the relevant OGC WFS test suites are supported.

#### NOTE

The conformance classes for coverage data (WCS) and observation data (SOS) are not yet supported.

The Download Service Tests are located in the category *Download Services (Technical Guidance version 3.1)*.

### Pre-defined WFS

To test a **Pre-Defined Dataset Download Service** click on the 'use' flip switch on the right-hand side of the Test Suite **Conformance Class: Download Service - Pre-defined WFS**.

Afterwards click on "Start" and enter the URL of the Web Feature Service.

Start the Test Run by clicking on Start.

Further steps are described in the [standard manual](#).

### Atom

To test an **Atom Download Service feed** click on the 'use' flip switch on the right-hand side of the Test Suite **Conformance Class: Download Service - Pre-defined Atom**.

Afterwards click on "Start" and enter the URL of the Atom service feed.

Start the Test Run by clicking on Start.

Further steps are described in the [standard manual](#).







## INSPIRE Validator (development version)

- ✓ **Testar Serviços de descarregamento - Atom**
- ✓ **É possível testar serviços com os requerimentos Pre-Defined Dataset Download Service using Atom**

**Executable Test Suites** Start

To start a Test Run, select one or multiple Test Suites with a click on the flip switch on the right-hand side ('use') and press the 'Start' button that appears once at least one Test Suite is selected. Please note that the Test Suites are only applicable to certain Test Object types and therefore not all Test Suites are combinable for a Test Run. Additional information about a Test Suite will be shown with a click on the plus button.

Filter Executable Test Suites...

**Download Services (Technical Guidance version 3.1)**

1 **Conformance Class: Download Service - Pre-defined Atom** ☒

**Conformance Class: Download Service - Pre-defined WFS** ☐ use

**Metadata (Technical Guidance version 1.3)**

**Conformance class: INSPIRE Profile based on EN ISO 19115 and EN ISO 19119** ☐ use



## INSPIRE Validator (development version)

### ✓ Testar Serviços de descarregamento - Atom

×

Configure Test Run

Label: ?

Test run on 10:30 - 26.04.2017 with test suite Conformance Class: Download Servi

1 Service URL

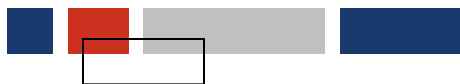
http://service/atom

Test Suites

Credentials

Optional Parameters

2 Start



## INSPIRE Validator (development version)

- ✓ **Testar Serviços de descarregamento - WFS**
- ✓ **É possível testar serviços com os requerimentos *Pre-Defined Dataset Download Service using WFS***

The screenshot shows the 'Executable Test Suites' section of the INSPIRE Validator interface. At the top, there is a navigation bar with tabs: 'Starte Test', 'Status', 'Testberichte', and 'Hilfe'. Below the navigation bar, the 'Executable Test Suites' section is displayed. It includes a 'Start' button and a description of how to start a Test Run. A search bar labeled 'Filter Executable Test Suites...' is present. The list of test suites is divided into sections: 'Download Services (Technical Guidance version 3.1)' and 'Metadata (Technical Guidance version 1.3)'. Under 'Download Services', there are two items: 'Conformance Class: Download Service - Pre-defined Atom' and 'Conformance Class: Download Service - Pre-defined WFS'. The 'Pre-defined WFS' item is highlighted with a red box and a red '1' next to it. The 'Pre-defined Atom' item has a toggle switch that is currently turned on. The 'Pre-defined WFS' item has a 'use' button. Under 'Metadata', there is one item: 'Conformance class: INSPIRE Profile based on EN ISO 19115 and EN ISO 19119', which also has a 'use' button.



## INSPIRE Validator (development version)

### ✓ Testar Serviços de descarregamento - WFS

Configure Test Run

Label: ?

Test run on 10:30 - 26.04.2017 with test suite Conformance Class: Download Servi

1 Service URL

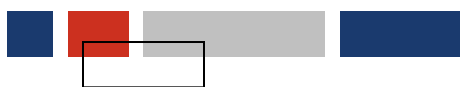
http://example-service/wfs

Test Suites

Credentials

Optional Parameters

2 Start



## Validação INSPIRE - Conclusões

- ✓ **A necessidade de ferramentas para validação (metadados, dados e serviços) aumenta à medida que se avança nas diferentes fases de implementação da diretiva INSPIRE.**

**Para além dos validadores que agora apresentámos:**

- ✓ **Existe um serviço de validação de metadados (Webservice) disponível no portal da EU;**
- ✓ **Alguns países também desenvolveram ferramentas para validação de metadados e serviços, por exemplo, na Holanda e na Alemanha**
- ✓ **Estes validadores podem incluir interpretações ligeiramente diferentes das normas. Para garantir que o resultado de um teste de conformidade seja idêntico, um validador comum, oficialmente aprovado, deve ser acedido pela web INSPIRE.**