ISPRA

Istituto Superiore per la Protezione
e la Ricerca Ambientale

SERVIZIO GEOLOGICO D'ITALIA

Organo Cartografico dello Stato (legge N°68 del 2-2-1960)

1

Riepilogo su INSPIRE: *Adempimenti, Roadmap, implementazione e situazione italiana*

Carlo Cipolloni

ISPRA Servizio Geologico d'Italia – Membro INSPIRE MIG-T

Cosa dice?

Le infrastrutture per l'informazione territoriale degli Stati membri dovrebbero essere finalizzate a garantire che i dati territoriali siano archiviati, resi disponibili e conservati al livello più idoneo; devono consentire di combinare in maniera coerente dati territoriali provenienti da fonti diverse all'interno della Comunità e di condividerli tra vari utilizzatori e applicazioni; devono permettere di condividere i dati territoriali raccolti ad un determinato livello dell'amministrazione pubblica con altre amm. ...

34 spatial data themes

NATURAL RISK ZONES

Seismic Hazard Map:

- **Decreto Legislativo 27 gennaio 2010, n. 32, “Attuazione della direttiva 2007/2/CE, che istituisce un’infrastruttura per l’informazione territoriale nella Comunità europea (INSPIRE)”**
- **L. 135/2012 – «Disposizioni urgenti per la revisione della spesa pubblica con invarianza dei servizi ai cittadini» – art. 12-quaterdecies:**
- **CAD (D.Lgs. 82/2005)** - Codice dell’amministrazione digitale.
- **PSI (D.Lgs. 36/2006)** - Attuazione della direttiva 2003/98/CE relativa al riutilizzo di documenti nel settore pubblico.
- **Open Data** - Ulteriori misure urgenti per la crescita del Paese. (L. 221/2012) e Decreto Trasparenza (D.lgs n. 33/2014)

ART. 5

Le pubbliche amministrazioni forniscono i metadati di propria pertinenza al Repertorio Nazionale dei Dati Territoriali (RNDT) previo accreditamento. Il metadato, conforme sia al profilo Nazionale che alle ultime specifiche dello standard INSPIRE, può essere creato e caricato nel RNDD o raccolto unicamente tramite il servizio di catalogo CSW-ISO.

ART. 7

Il servizio di ricerca è garantito sulla base del RNDD che costituisce parte dell'infrastruttura nazionale per l'informazione territoriale e del monitoraggio ambientale.

ART. 6

*Le autorità pubbliche rendono disponibili set di dati territoriali raccolti **ex novo e/o rielaborati in maniera estensiva** ed i corrispondenti **servizi entro due anni dall'adozione** delle disposizioni comunitarie. Le autorità pubbliche rendono disponibili i **rimanenti set di dati** territoriali ed i servizi ad essi relativi ancora in uso **entro sette anni dall'adozione** delle predette disposizioni comunitarie di esecuzione.*

Dove siamo?

INSPIRE

Dove andiamo?

INSPIRE MIF: Framework per l'Implementazione e Mantenimento

MIG-P

MIG permanent Policy sub-group

*Fornisce la visione
strategica e la policy relativa
a INSPIRE per
l'implementazione e
mantenimento approvando il
programma di lavoro*

MIG-T

MIG permanent Technical sub-group

*Cura e garantisce gli aspetti
tecnici relativi a INSPIRE
per l'implementazione e
mantenimento, preparando
e aggiornando il programma
di lavoro*

Pool di Esperti tematici
ICT, Dominio, Legali, Ricerca

Flusso di lavoro MIF

WP 5
Validazione e
test di
conformità

WP 6 Registro
e registrazione

WP 7a Estensione
delle G.T. per i
Download Service
per SOS

WP 7b
Estensione delle
G.T. per i
Download
Service per
Coverage

WP 8
Aggiornamento
delle G.T. per i
Metadati

WP 10
Aggiornamento
delle Specifiche
Dati
dell'Annesso-I

WP 14 Esperienze
implementative dei
domini tematici e
problematiche delle
Specifiche Dati

WP 16 Migliorare
usabilità e
affidabilità delle
informazioni di
Monitoraggio

WP 18a
Mantenimento e
aggiornamento
degli schemi
XML Annex I

WP 21 Piloti su
applicazioni
basate su
INSPIRE incluso
eReporting

WP 1
Migliorare e favorire
l'accesso alle
informazioni di
INSPIRE

WP 2 Creare
e mantenere
una pagine
delle FAQ

WP 3 Linee
guida e buone
pratiche per i
processi di
controllo
all'accesso

WP 4 Gestione e
uso delle http URI
per gli indicativi
referenziati
INSPIRE

WP 7c
Estensione delle
G.T. per i
Download
Service per
tabelle di dati

WP 9 Future
direzioni del
geoportale
INSPIRE

WP 11 Codifica
GML:
Esplicazione e
semplificazione
della codifica
GML per i dati
spaziali

WP 12 Codifica
GML:
Esplicazioni
delle regole di
codifica da
UML a GML

WP 15
Panoramica delle
strutture di
coordinamento,
delle architetture
e strumenti di
INSPIRE

WP 17
Modello di
licenza e
scambio dati
e servizi

WP 19 Migliorare
e esplorare la
piattaforma dei
vocabolari
controllati in
INSPIRE

Accesso alle info ...

<http://inspire.ec.europa.eu/index.cfm/pageid/5160>

The screenshot shows the INSPIRE website interface. At the top, there is a blue header with the European Commission logo and the text 'INSPIRE Infrastructure for Spatial Information in the European Community'. Below this is a navigation bar with 'European Commission > INSPIRE > Maintenance and Implementation'. The main content area has a yellow header 'INSPIRE Maintenance and Implementation' and a row of navigation buttons: 'MIF', 'Work Programme', 'List of Experts', 'MIG representatives', and 'Thematic Clusters'. The 'List of Experts' button is highlighted. The main text explains the purpose of the INSPIRE Directive and provides a link to 'Register now for the Pool of Experts!'. Below this is the 'INSPIRE Maintenance and Implementation Framework (MIF)' section, which lists five challenges. A sidebar on the left contains navigation links for 'About', 'Implementation', and 'Adoption'.

INSPIRE
Infrastructure for Spatial Information in the European Community

European Commission > INSPIRE > Maintenance and Implementation

INSPIRE Maintenance and Implementation

[MIF](#) [Work Programme](#) [List of Experts](#) [MIG representatives](#) [Thematic Clusters](#)

The purpose of the INSPIRE Directive is "to lay down general rules aimed at the establishment of the Infrastructure for Spatial Information in the European Community". All infrastructures, and INSPIRE is no exception, require maintenance and evolution if they want to remain relevant for serving the purposes for which they have been put in place. Lessons learned by implementing the infrastructure need also to be taken into account to further optimise its performance in order to meeting its policy objectives. Setting up a framework for such maintenance, further implementation and evolution for INSPIRE is therefore a logical initiative.

[Register now for the Pool of Experts!](#)

INSPIRE Maintenance and Implementation Framework (MIF)

The Commission, in agreement with the Member States, is therefore setting up the INSPIRE Maintenance and Implementation Framework (MIF), which is based on the same principles as those applied for its development. This MIF will have to address the following main challenges:

- Be fully aligned with and interfaced to the ongoing development of the remaining IRs.
- Be supportive to the further implementation of the IRs in the Member States.
- Be responsive to lessons learned from the implementation (which may require modifications to the Legal Acts and Technical Guidelines and associated registers and tools).
- Be comprehensive to ensure the cross-cutting coherence of the components of the infrastructure --- some of the issues resulting from implementation of the IRs may affect more than one INSPIRE component, e.g. data specifications and network services, and it is crucial that these are resolved and applied in a consistent manner.
- Be flexible for taking into account requirements emerging from environmental policies and policies or activities which may have an impact on the environment.
- Be adequately resourced and organized for dealing with event-driven requests and needs for maintenance and evolution.

INSPIRE Maintenance and Implementation Group (MIG)

In the INSPIRE Committee meeting on 8 April 2013, it was agreed to set up a Commission expert group called INSPIRE Maintenance and Implementation Group (MIG) with representatives of the INSPIRE national contact points. The tasks of the INSPIRE MIG shall be:

About

- [Home](#)
- [About INSPIRE](#)
- [Legislation](#)
- [History](#)
- [Who's who in INSPIRE](#)
- [INSPIRE library](#)
- [INSPIRE Conferences](#)

Implementation

- [Roadmap](#)
- [Monitoring and Reporting](#)
- [IOC](#)
- [INSPIRE GeoPortal](#)
- [Maintenance and Implementation](#)

Adoption

- [Roadmap](#)
- [Implementing Rules](#)
- [Monitoring and Reporting](#)
- [Metadata](#)
- [Data Specifications](#)

<https://ies-svn.jrc.ec.europa.eu/>

MIG Collaboration Platform

Home

Welcome to the collaboration platform of the INSPIRE Maintenance and Implementation Group (MIG). This platform is used by the MIG and its sub-groups for discussions (using the issue tracker) and sharing information on on-going activities (using the wiki, documents, news or calendar sections).

- **Projects:** List of the activities of the MIG and specific tasks in the maintenance and implementation work programme
- **Work programme:** Overview of the tasks in the maintenance and implementation work programme (MIWP)
- **MIG wiki page:** Agendas and minutes of MIG meetings
- **INSPIRE web site:** More information on the INSPIRE Maintenance and Implementation Framework (MIF) and the MIG

Utime notizie

[MIG-T: Testing INSPIRE registry, registers and Re3gistry software](#)

Aggiunto da [Michael Lutz](#) circa un mese fa

[Re3gistry development & testing: Testing INSPIRE registry, registers and Re3gistry software](#)

Aggiunto da [Daniele Francioli](#) circa un mese fa

Ultimi progetti registrati

- [MIWP-4a: Persistent identifiers](#) (09 Dic 2014 04:43 pm) This sub-project covers MIWP-4a: Managing and using persistent identifiers in INSPIRE.
- [MIWP-14: Thematic Clusters](#) (15 Lug 2014 04:30 pm)
- [Re3gistry development & testing](#) (09 Lug 2014 09:53 am)
The aim of this sub-project is to support the development of the [Re3gistry software](#) and the [INSPIRE registers and registry service](#). If you are interested in testing new release candidates of the software or service, please register in the MIG collaboration space and send an e-mail to inspire-registry-dev@jrc.ec.europa.eu.

...

- [MIG-P](#) (08 Lug 2014 03:34 pm)
This project contains information about the **MIG permanent policy sub-group** (MIG-P), whose tasks are to discuss and provide advice on the strategic and policy-related aspects of INSPIRE maintenance and implementation, including the **endorsement of the rolling work programme** for INSPIRE maintenance and implementation (MIWP).

Accesso alle info ...

https://ies-svn.jrc.ec.europa.eu/

Ricerca

MIG Collaboration Platform

Home

Welcome to the collaboration platform of the INSPIRE M Implementation Group (MIG). This platform is used by sub-groups for discussions (using the issue tracker) and on-going activities (using the wiki, documents, news sections).

- **Projects:** List of the activities of the MIG and special maintenance and implementation work programmes
- **Work programme:** Overview of the tasks in the maintenance and implementation work programme (MIWP)
- **MIG wiki page:** Agendas and minutes of MIG meetings
- **INSPIRE web site:** More information on the INSPIRE Implementation Framework (MIF) and the MIG

MIG-T

[Panoramica](#) [Attività](#) [Segnalazioni](#) [Notizie](#) [Documenti](#) [Wiki](#) [File](#)

MIWP-Action #2128

MIWP-6: Registries and registers

Aggiunto da Lorena Hernandez Quiros 7 mesi fa. Aggiornato 6 giorni fa.

Stato:	Endorsed	Inizio:	01 Gen 2014
Priorità:	Normal	Scadenza:	
Assegnato a:	Michael Lutz	% completato:	<div style="width: 30%;"></div> 30%
Submitting Organisation:		Component:	Registry [INSPIRE Registry]
Original Submitter:			

Descrizione

Issue:

Member States need to build registries to implement INSPIRE (and use the central INSPIRE registers). A technical guideline should explain how to build them, how to extend central INSPIRE registers and how to link national registers/extensions to the central INSPIRE registry.

The priorities for the further development (functionality and content) of the central INSPIRE registry should be discussed between the EC and the MS. Possible topics include:

- Support for registration of mapping between code lists

Uttime notizie

[MIG-T: Testing INSPIRE registry, registers and Re3gis](#)
Aggiunto da [Michael Lutz](#) circa un mese fa

[Re3gistry development & testing: Testing INSPIRE reg](#)
[Re3gistry software](#)
Aggiunto da [Daniele Francioli](#) circa un mese fa

INSPIRE Implementation Roadmap

<p>Discovery metadata shall be available for spatial data sets and services</p>	<p>Spatial data sets shall be available for discovery and view from the INSPIRE geo-portal (data does not yet need to be conformant to IR-ISDSS)</p>	<p>Spatial data sets shall be available for download and transformation (whenever applicable¹) from the INSPIRE geo-portal (data does not yet need to be conformant to IR-ISDSS²)</p>
<p>Newly collected and extensively restructured spatial data sets shall be conformant to IR-ISDSS (incl. metadata for interoperability) and available through network services</p>	<p>All spatial data sets shall be conformant to IR-ISDSS (incl. metadata for interoperability) and available through network services</p>	
<p>All invocable spatial data services shall be conformant to Annex V of IR-ISDSS (incl. metadata)</p>	<p>Invocable spatial data services related to newly collected and extensively restructured spatial data sets shall be conformant to Annexes VI and (where practicable) VII of IR-ISDSS (incl. metadata)</p>	<p>All invocable spatial data services shall be conformant to Annexes VI and (where practicable) VII of IR-ISDSS (incl. metadata)</p>

Metadati
Annex I e II 24/12/2010
Annex III 24/12/2013

Discovery - View Service
Annex I e II 24/12/2011
Annex III 24/12/2013

Download Service
Annex I e II 24/12/2012
Annex III 24/12/2013

Dataset
Annex I 24/11/2017
Annex II e III 24/10/2020

INSPIRE Implementation Roadmap

- *Elementi INSPIRE dei metadati*
- *Interoperabilità degli Spatial Data Services*

	Discovery metadata shall be available for spatial data sets and services		Spatial data sets shall be available for discovery and view from the INSPIRE geo-portal (data does not yet need to be conformant to IR-ISDSS)		Spatial data sets shall be available for download and transformation (whenever applicable ¹) from the INSPIRE geo-portal (data does not yet need to be conformant to IR-ISDSS ²)
	Newly collected and extensively restructured spatial data sets shall be conformant to IR-ISDSS (incl. metadata for interoperability) and available through network services		All spatial data sets shall be conformant to IR-ISDSS (incl. metadata for interoperability) and available through network services		
	All invocable spatial data services shall be conformant to Annex V of IR-ISDSS (incl. metadata)		Invocable spatial data services related to newly collected and extensively restructured spatial data sets shall be conformant to Annexes VI and (where practicable) VII of IR-ISDSS (incl. metadata)		All invocable spatial data services shall be conformant to Annexes VI and (where practicable) VII of IR-ISDSS (incl. metadata)

SDS – Spatial Data Services

Tutti i dati
spaziali anche se
non ascrivibili
alle D.S. INSPIRE

SDS – Spatial Data Services

TGs per i metadati integrate

Issues in Release A June 20th 2015

- [MIWP-8 \(J\) Metadata for SDS \(draft\)](#)
- [MIWP-8 \(D\) Integrate metadata for interoperability into the Metadata TG \(draft\)](#)
- [MIWP-8 \(I\) Language neutral identifiers \(draft\)](#)
- [MIWP-8 \(L\) Unique Resource Identifier \(draft\)](#)
- [MIWP-8 \(M\) Coupled resources \(draft\)](#)
- [MIWP-8 \(E-1\) Integrate Theme specific metadata \(draft\)](#)
- [MIWP-8 \(A\) Conditions applying to access and use \(draft\)](#)

Issues in Release B December 20th 2015

- [MIWP-8 \(C\) Harmonized restrictions/licenses](#)
- [MIWP-8 \(E-2\) Integrate Theme specific metadata](#)
- [MIWP-8 \(F\) Relation to ISO19115-1:2014](#)
- [MIWP-8 \(G\) Conformance classes in registry](#)
- [MIWP-8 \(H\) Metadata for monitoring](#)
- [MIWP-8 \(K\) Add Abstract Test suite](#)

INSPIRE
Infrastructure for Spatial Information in Europe

INSPIRE Metadata Implementing Rules: Technical Guidelines based on EN ISO 19115 and EN ISO 19119

Title	INSPIRE Metadata Implementing Rules: Technical Guidelines based on EN ISO 19115 and EN ISO 19119
Creator	Drafting Team Metadata and European Commission Joint Research Centre, Updated by MIG-MIWP8
Creation date	2007-10-26
Date of last revision	2015-07-20
Subject	INSPIRE Implementing Rules for Metadata
Status	V-1.4 draft 04 Draft document for editing in subgroups for MIWP8
Publisher	European Commission Joint Research Centre
Type	Text
Description	Guidelines based on EN ISO 19115 and EN ISO 19119 for 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
Contributor	See Acknowledgements
Format	doc
Source	European Commission Joint Research Centre
Rights	Public
Identifier	TG_MD_IR_and_ISO_MIWP8_draft_v.04.doc
Language	EN
Relation	Not applicable
Coverage	Not applicable
Comments	Current draft is updated at the following chapters 2.2.5 Unique resource identifier 2.3.6 Coupled resource 2.9 Conditions related to Access and use 2.11.3 Metadata Language

<https://themes.jrc.ec.europa.eu/>

About the INSPIRE Thematic Clusters Platform

Welcome to the INSPIRE Thematic Clusters Platform

The INSPIRE Thematic Clusters Platform is a European Commission initiative, linked to the INSPIRE Maintenance and Implementation Framework, with the objective of supporting INSPIRE implementation in the Member States.

All infrastructures, and INSPIRE is no exception, require maintenance and evolution. The experience gained during the development of the Technical Guidelines as well as lessons learned by implementing the infrastructure, especially in thematic domains, need to be shared to optimise performance of the infrastructure to meet policy objectives and to increase its usability within thematic domains. To aid this further evolution of INSPIRE and to help embed it in technical practices within a range of communities, on-line collaboration thematic platforms have been set up for sharing theme-specific experiences.

This platform that builds upon the relevant INSPIRE Forum content and software, is a single entry point for INSPIRE implementers and users to share experiences, best practices, raise questions and resolve issues in their thematic domains.

Each of the nine INSPIRE Thematic Clusters has a facilitator who will lead and participate in discussions, identify and facilitate sharing of best practice and key issues, identify relevant projects and software solutions.

- Tag cloud**
- hydrography, Codebooks, Transport Networks, Orthoimagery, Encoding, Land cover, Geographical Grids, EU Thematic Databases, Political/organisational framework, S/W tools, Elevation, Evolution - Thematic extensions, Member State issues, Cadastral Parcels, Common terminology, interoperability, Thematic use case, Best Practice, data provision, Data model/scope

INSPIRE on Twitter

Tweets Follow

INSPIRE_EU @INSPIRE_EU
 #MyGEOSS 2nd Call for Innovative Apps #code4climate local! Info@ecjrcCSa #opendata #open #geos #code4climate
 Tweet to @INSPIRE_EU

- INSPIRE Website**
- INSPIRE FORUM**
- INSPIRE GeoPortal**
- INTERACTIVE Data Specifications**

<https://themes.jrc.ec.europa.eu/>

Groups > Land Cover and Land Use Cluster

Land Cover and Land Use Cluster

Image Owner Credit

Description:

This is an open group for people involved and interested in the Thematic Cluster Land Cover and Land Use. Please use this group to share resources and have discussions which are common to more than one INSPIRE theme within the cluster (Land Cover, Land Use). For those which are specific and focused just on one of these themes, please use the separate subgroup created for such purpose:

[Land Cover](#)

[Land Use](#)

Owner: [Lena Hallin-Pihlatie](#)

Group members: 97

[Open group](#)

[Login to Join](#)

In order to join the group or related sub-groups, you must be [registered to the ECAS platform](#) and be logged on to the collaboration platform.

Direct access to Cluster's content

- [Group pages](#)
- [Group discussion on LCLU cluster level](#)
- [Group discussion in the LC sub-group](#)
- [Group discussion in the LU sub-group](#)

Brief description: Join this group to share your knowledge, learn and

Share

[INSPIRE Conference 2015](#)
[INSPIRE GeoPortal](#)

[INSPIRE FORUM](#)
[INTERACTIVE Data Specifications](#)

[INSPIRE Website](#)
[INSPIRE Registry](#)

Search

Land Cover and Land Use Cluster

Join this group to share your knowledge, learn and collaborate in solving issues related to the Land Cover and Land Use themes.

Open group

Group activity

Group discussion

Group files

Group news

Group pages

Group pinboards

Group static pages

Related groups

Nuovo schema dati

```
- <schema elementFormDefault="qualified" targetNamespace="http://inspire.ec.europa.eu/schemas/tn/4.0" version="4.0">
- <annotation>
- <documentation>
  -- Definition -- This package defines the types that are common for all transport networks subthemes.
</documentation>
</annotation>
<import namespace="http://inspire.ec.europa.eu/schemas/base/3.3" schemaLocation="http://inspire.ec.europa.eu/schemas/base/3.3/BaseTypes.xsd" />
<import namespace="http://inspire.ec.europa.eu/schemas/gn/4.0" schemaLocation="http://inspire.ec.europa.eu/schemas/gn/4.0/GeographicalNames.xsd" />
<import namespace="http://inspire.ec.europa.eu/schemas/net/4.0" schemaLocation="http://inspire.ec.europa.eu/schemas/net/4.0/Network.xsd" />
<import namespace="http://www.isotc211.org/2005/gmd" schemaLocation="http://schemas.opengis.net/iso/19139/20070417/gmd/gmd.xsd" />
<import namespace="http://www.opengis.net/gml/3.2" schemaLocation="http://schemas.opengis.net/gml/3.2.1/gml.xsd" />
<!--XML Schema document created by ShapeChange-->
<element name="AccessRestriction" substitutionGroup="tn:TransportProperty" type="tn:AccessRestrictionType">
- <schema elementFormDefault="qualified" targetNamespace="urn:x-inspire:specification:gmlas:CommonTransportElements:3.0" version="3.0.1">
- <annotation>
- <documentation>
  -- Definition -- This package defines the types that are common for all transport networks subthemes.
</documentation>
</annotation>
<import namespace="urn:x-inspire:specification:gmlas:BaseTypes:3.2" schemaLocation="http://inspire.ec.europa.eu/schemas/base/3.2/BaseTypes.xsd" />
<import namespace="urn:x-inspire:specification:gmlas:Network:3.2" schemaLocation="http://inspire.ec.europa.eu/schemas/net/3.2/Network.xsd" />
<import namespace="http://www.opengis.net/gml/3.2" schemaLocation="http://schemas.opengis.net/gml/3.2.1/gml.xsd" />
<import namespace="urn:x-inspire:specification:gmlas:GeographicalNames:3.0" schemaLocation="http://inspire.ec.europa.eu/schemas/gn/3.0/GeographicalNames.xsd" />
<import namespace="http://www.isotc211.org/2005/gmd" schemaLocation="http://schemas.opengis.net/iso/19139/20070417/gmd/gmd.xsd" />
<!--XML Schema document created by ShapeChange-->
- <element abstract="true" name="TransportLinkSequence" substitutionGroup="net:LinkSequence" type="tn:TransportLinkSequenceType">
- <annotation>
- <documentation>
  -- Definition -- A linear spatial object, composed of an ordered collection of transport links, which represents a continuous path in the transport network without any branches. This
  element has a defined beginning and end and every position on the transport link sequence is identifiable with one single parameter such as length. It describes an element of the
  transport network, characterized by one or more thematical identifiers and/or properties.
</documentation>
</annotation>
</element>
- <complexType abstract="true" name="TransportLinkSequenceType">
- <complexContent>
- <extension base="net:LinkSequenceType">
```

Evoluzione schema

Index of /schemas

Nuovo schema dati

["http://inspire.ec.europa.eu/schemas/tn/4.0"](http://inspire.ec.europa.eu/schemas/tn/4.0) **version="4.0">**

Name Last modified Size Description

[Parent Directory](#)

ac-mf/	2015-04-29 10:03	-
act-core/	2015-04-29 10:03	-
ad/	2015-04-29 10:03	-
af/	2015-04-29 10:03	-
am/	2015-04-29 10:03	-
au/	2015-04-29 10:03	-
base/	2015-04-29 10:03	-
base2/	2015-04-29 10:03	-
br/	2015-04-29 10:03	-
bu-base/	2015-04-29 10:03	-
bu-core2d/	2015-04-29 10:03	-
bu-core3d/	2015-04-29 10:03	-
bu/	2015-04-29 10:03	-
common/	2015-04-29 10:03	-
cp/	2015-04-29 10:03	-
cvbase/	2015-04-29 10:03	-
cvgvp/	2015-04-29 10:03	-
ef/	2015-04-29 10:03	-
el-bas/	2015-04-29 10:03	-

common for all transport networks subthemes.

schemaLocation="http://inspire.ec.europa.eu/schemas/base/3.3/BaseTypes.xsd" />
schemaLocation="http://inspire.ec.europa.eu/schemas/gn/4.0/GeographicalNames.xsd" />
schemaLocation="http://inspire.ec.europa.eu/schemas/net/4.0/Network.xsd" />
schemaLocation="http://schemas.opengis.net/iso/19139/20070417/gmd/gmd.xsd" />
schemaLocation="http://schemas.opengis.net/gml/3.2.1/gml.xsd" />
type="tn:AccessRestrictionType" />
specification:gmlas:CommonTransportElements:3.0 **version="3.0.1">**

Il transport networks subthemes.

schemaLocation="http://inspire.ec.europa.eu/schemas/base/3.2/BaseTypes.xsd" />
schemaLocation="http://inspire.ec.europa.eu/schemas/net/3.2/Network.xsd" />
schemaLocation="http://schemas.opengis.net/gml/3.2.1/gml.xsd" />
schemaLocation="http://inspire.ec.europa.eu/schemas/gn/3.0/GeographicalNames.xsd" />
schemaLocation="http://schemas.opengis.net/iso/19139/20070417/gmd/gmd.xsd" />
Group="net:LinkSequence" **type**="tn:TransportLinkSequenceType">

collection of transport links, which represents a continuous path in the transport network without any branches. The
 transport link sequence is identifiable with one single parameter such as length. It describes an element of the
 series and/or properties.

Evoluzione schema

Index of /schemas

Nuovo schema dati

"<http://inspire.ec.europa.eu/schemas/tn/4.0>" version="4.0">

Index of /schemas/au

Name Last modified

Parent Directory
ac-mf/	2015-04-29 10
act-core/	2015-04-29 10
ad/	2015-04-29 10
af/	2015-04-29 10
am/	2015-04-29 10
au/	2015-04-29 10

<u>Name</u>	<u>Last modified</u>	<u>Size</u>	<u>Description</u>
Parent Directory		-
3.0/	2015-04-29 10:03	-
4.0/	2015-04-29 10:03	-
au-3_0_0.zip	2012-12-14 16:37	3.7K	

[http://inspire.ec.europa.eu/schemas/base/3.3/BaseTypes.xsd"/> >
\[http://inspire.ec.europa.eu/schemas/gn/4.0/GeographicalNames.xsd"/> >
\\[http://inspire.ec.europa.eu/schemas/net/4.0/Network.xsd"/> >
\\\[http://inspire.ec.europa.eu/19139/20070417/gmd/gmd.xsd"/> >
\\\\[http://inspire.ec.europa.eu/2.1/gml.xsd"/> >
 Type <= >
 'version="3.0.1">\\\\]\\\\(#\\\\)\\\]\\\(#\\\)\\]\\(#\\)\]\(#\)](#)

Validazione

eENVplus Validation Service

The **eENVplus Validation Service** provides **Executable Test Suites (ETS)** implementing the Abstract Test Suites (ATS) which are included in the **Annex A** of the **INSPIRE Data Specifications** and contain a set of tests to be applied on a dataset to evaluate whether it fulfils the INSPIRE requirements.

ATS

Annex A - Part 1: includes tests aiming at assessing the conformity of GML datasets to “COMMISSION REGULATION (EU) No 1089/2010 of 23 November 2010 implementing Directive 2007/2/EC of the European Parliament and of the Council as regards interoperability of spatial datasets and services” and its successive amendment “COMMISSION REGULATION (EU) No 1253/2013 of 21 October 2013”.

Annex A - Part 2: includes tests aiming at assessing conformity of GML datasets to relevant INSPIRE Data Specifications - Technical Guidelines (TG) requirements.

The requirements to be tested are grouped in several **Conformance Classes**.

Each of these classes covers a specific aspect: for example A.1 conformance class contains tests related to the requirements on the application schema, A.2 conformance class contains tests related to the requirements on the reference systems, etc ...

In order to be **conformant** to a specific Conformance Class, a dataset has **to pass all tests defined for that Conformance Class**.

If a dataset is not yet conformant with all requirements of the Data Specification, **conformity to individual Conformance Classes can be claimed**.

ETS

In order to execute abstract tests associated to Conformance Classes, an **Executable Test Suite (ETS)**, containing a physical implementation of the abstract tests, has to be derived from the ATS.

For those tests that cannot be automated the ETS contains guidelines to manual execution.

A single executable test can cover different abstract tests.

Tests included in the **ATS** vary according to the different data themes.

Select the **INSPIRE Theme** from the underlying dropdown list to display the **ATS** included in the Annex A of the relevant **INSPIRE Data Specifications** and have access to the associated **ETS**.

Validazione

eENVplus Validation Service

The **eENVplus Validation Service** provides **Executable Test Suites (ETS)** implementing the Abstract Test Suites (ATS) which are included in the **Annex A** of the **INSPIRE Data Specifications** and contain a set of tests to be applied on a dataset to evaluate whether it fulfils the INSPIRE requirements.

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- Geographical names
- Administrative units
- Addresses
- Cadastral parcels
- Transport networks
- Hydrography
- Protected Sites
- Elevation
- Land cover
- Orthoimagery
- Geology
- Statistical units
- Buildings
- Soil
- Land use

The ATS table below contains a detailed list of the abstract tests included in the **ATS** for the **Protected Sites** and relevant **Executable Tests (ET)** provided by the **eENVplus Validation Service**. Abstract tests marked by "*" make use of schematron files developed by eENVplus team.

Click links in the list of **Available Executable Tests of the GML Data Validation ETS** to access the relevant **Executable Tests** or **Click** the arrow icon to go back to the HOME page

ATS	Conformance classes	Abstract Tests	Related ET	Available Executable Tests of the GML Data Validation ETS	
Part 1 (normative)	A.1 Application Schema Conformance Class	A.1.1 Schema element denomination test	E.1	E.1- Automated Validation : A.1: all tests - A.2.1: Datum test, A.2.2: Coordinate Reference System test - A.5.2: CRS publication test, A.5.3: CRS identification test - A.6.1: Encoding compliance test - A.8.1: Multiplicity test, A.8.6 Encoding schema validation test	
		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		E.2- Guideline to Manual Validation : A.2.3: View service CRS test, A.2.4: Temporal reference system test, A.2.5: Units of measurements test
		A.2.2 Coordinate reference system test *	E.1		
		A.2.3 View service CRS test	E.2	E.3- Guideline to Manual Validation : A.3: all tests	
		A.2.4 Temporal reference system test	E.2		
		A.2.5 Units of measurements test	E.2		
	A.3 Data Consistency Conformance Class	A.3.1 Unique identifier persistency test	E.3	E.4- Guideline to Manual Validation : A.4: all tests	
		A.3.2 Version consistency test	E.3		
		A.3.3 Update frequency test	E.3		
	A.4 Metadata IR Conformance Class	A.4.1 Metadata for interoperability test	E.4	E.5- Guideline to Manual Validation : A.5.1: Code list publication test	
	A.5 Information Accessibility Conformance Class	A.5.1 Code list publication test	E.5		
		A.5.2 CRS publication test *	E.1	E.6- Guideline to Manual Validation : A.7: all tests	
		A.5.3 CRS identification test *	E.1		
	A.6 Data Delivery Conformance Class	A.6.1 Encoding compliance test	E.1	E.7- Guideline to Manual Validation : A.8.2: CRS http URI test	
	A.7 Portrayal Conformance Class	A.7.1 Layer designation test	E.6		
			A.8.1 Multiplicity test	E.1	E.8- Guideline to Manual Validation : A.8.3: Metadata encoding schema validation test, A.8.4: Metadata occurrence test, A.8.5: Metadata consistency test
					E.9- Guideline to Manual Validation : A.8.7: Style test

[Geology](#)
[Statistical units](#)
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Validazione

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<http://inspire-geoportal.ec.europa.eu/validator2/>

INSPIRE GEOPORTAL

Enhancing access to European spatial data

European
Commission

EUROPEAN COMMISSION > INSPIRE > INSPIRE GEOPORTAL > Validator

INSPIRE Geoportal Metadata Validator

[\(Change log\)](#) [\(Documentation\)](#) [\(About\)](#)

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)

You can also upload a file to test

Select the file to be tested: Nessun file selezionato.

Test Resource

For security reasons, HTTP resources using ports other than 80, 443 and 8080 cannot be contacted.

Validazione

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<http://inspire-geoportal.ec.europa.eu/validator2/>

INSPIRE GEOPORTAL

Enhancing access to European spatial data

INSPIRE Full Operating Capability T

Average degree of conformity of INSPIRE Metadata: 100.00%

Resource Verification Report

[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 Warnings

- **No valid resource locator has been found**

Relevant documentation:

- *See INSPIRE Metadata Implementing Rules: Technical Guidelines based on EN ISO 19115 and EN ISO 19119 (Version 1.2)*

Expert documentation

- *UML Requirement Diagram*

A copy of the original source file is available here (Media Type application/vnd.iso.19139+xml)

```
+<gmd:MD_Metadata xmlns:gts="http://www.isotc211.org/2005/gts" xmlns:gco="http://www.isotc211.org/2005/gco"
xmlns:gmd="http://www.isotc211.org/2005/gmd" xmlns:srv="http://www.isotc211.org/2005/srv" xmlns:xlink="http://www.w3.org/1999/xlink"
xmlns:gss="http://www.isotc211.org/2005/gss" xmlns:gsr="http://www.isotc211.org/2005/gsr" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:ows="http://www.opengis.net/ows" xmlns:gml="http://www.opengis.net/gml/3.2" xmlns:ogc="http://www.opengis.net/ogc"
xmlns="http://www.isotc211.org/2005/gmd" xsi:schemaLocation="http://www.isotc211.org/2005/srv http://eden.ign.fr/xsd/isotc211/isofull/20090316
/srv/srv.xsd"> </gmd:MD_Metadata>
```

Spatial Data Services

Web Coverage/ Tables

Validazione/conformità

Grazie per l'attenzione ...

?? Domande??

Riferimenti:

carlo.cipolloni@isprambiente.it