



**INSPIRE**  
Infrastructure for Spatial Information in  
Europe

# State of progress in the development of guidelines to express elements of the INSPIRE metadata implementing rules using ISO 15836

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<b>Title</b>	State of progress in the development of guidelines to express elements of the INSPIRE metadata implementing rules using ISO 15836
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## Overview

According to Article 5(4) of the Directive, the INSPIRE Implementing Rules shall take account of relevant, existing international standards and user requirements. In the context of metadata for spatial data and spatial data services, the standard ISO 15836 (Dublin Core) has been identified as important in term of:

- dissemination of the INSPIRE metadata to other communities, and in particular e-government;
- basic search of geospatial resources.

The aim of this document is to report on the progress made in defining the proper way of expressing elements of INSPIRE metadata in conformance with ISO 15836.

In general, it is possible to express most elements of the INSPIRE metadata Implementing Rules (IRs) using ISO 15836, but this may imply a certain complexity which is unnecessary due to the intended use of Dublin Core in the INSPIRE community. Typically, the IRs include both metadata on the information resource, and metadata on the metadata record itself (metadata responsible party, metadata date, metadata language). ISO 15836 follows a different model and provides metadata only on the information resource. To provide metadata on the metadata record it would be necessary to define each metadata record as a resource in its own right, thus creating unnecessary burden.

Therefore, the appropriate perspective on these guidelines is that they will provide ways to express a core subset of the INSPIRE Implementing Rules based on ISO 15836. This will enable to be compliant with the Open Geospatial Consortium core model (which is based on ISO 15836) as well as provide opportunities to exchange metadata with e-government, e-business, and e-commerce communities among others, i.e. to add value to the metadata created for INSPIRE by making them more visible across communities.

Tables 1 and 2 provide an initial mapping between the elements of the INSPIRE IRs and ISO 15836. The guidelines will be finalised in conjunction with the revision of the OGC Catalogue specifications, as agreed at the OGC meeting in Stresa in December 2007, and taking into consideration work in progress in the CEN/ISSS Workshop on Discovery of and Access to eGovernment Resources (CEN/ISSS WS/eGov-Share).

## 1.1 Dublin Core Metadata Elements

### 1.1.1 Spatial dataset and spatial dataset series

The table below gives an overview about the Dublin Core elements and refinements that are used to encode the INSPIRE Metadata elements for spatial dataset and spatial dataset series as defined in the Implementing Rules for metadata.

Dublin Core	INSPIRE	Comments
dc:title	Part B.1.1 Resource title	-
dcterms:abstract	Part B.1.2 Resource abstract	-
dc:type	Part B 1.3 Resource type	-
dc:identifier	Part B.1.4 Resource locator	Dublin Core does not differentiate the resource locators and the unique resource identifiers
	Part B 1.5 Unique resource identifier	
dc:language	Part B 1.7 Resource language	-
	Part B.1.6 Coupled resource	Not applicable to dataset and dataset series
	Part B.2.2 Spatial data service type	Not applicable to dataset and dataset series
dc:subject	Part B.2.1 Topic category	Use of the value domain of topic category to differentiate general keyword values from topic categories.
	Part B.3.1 Keyword value	
	Part B.3.2 Originating controlled vocabulary	Can be supported through element schemes in the XML implementation of the keyword value
dcterms:spatial	Part B.4.1 Geographic bounding box	-
dcterms:temporal	Part B.5.1 Temporal extent	-
dcterms:issued	Part B.5.2 Date of publication	-
dcterms:modified	Part B.5.3 Date of last revision	-
dcterms:created	Part B.5.4 Date of creation	-
dc:description	Part B.6.1 Lineage	-
-	Part B.6.2 Spatial resolution	Not supported by Dublin Core
dcterms:conformsTo	Part B.7 Conformity	-
dc:rights	Part B.8.1 Conditions applying to access and use	-

Dublin Core	INSPIRE	Comments
dc:terms:accessRights	Part B.8.2 Limitations on public access	-
dc:contributor	Part B.9 Responsible organisation	Depending on the role played by the responsible organisation
dc:creator		
dc:publisher		
-	Part B.10.1 Metadata point of contact	Not supported in Dublin Core without creating an additional resource
-	Part B.10.2 Metadata date	Not supported in Dublin Core without creating an additional resource
-	Part B.10.3 Metadata language	Can be supported in the XML Implementation of Dublin Core through the xml:lang attribute

### 1.1.2 Services

The table below compares the core requirements of ISO 15836 to the requirements of INSPIRE for services as defined in the Implementing Rules for metadata. The greyed line corresponds to core metadata elements not applicable to services.

Dublin Core	INSPIRE	Comments
dc:title	Part B.1.1 Resource title	-
dc:terms:abstract	Part B.1.2 Resource abstract	-
dc:type	Part B.1.3 Resource type	-
dc:identifier	Part B.1.4 Resource locator	-
-	Part B.1.5 Unique resource identifier	Not applicable to services
dc:relation	Part B.1.6 Coupled resource	-
dc:type	Part B.2.2 Spatial data service type	-
-	Part B.1.7 Resource Language	Not applicable to services
-	Part B.2.1 Topic Category	Not applicable to services
dc:subject	Part B.3.1 Keyword value	-
dc:terms:references	Part B.3.2 Originating controlled vocabulary	Can be supported through element schemes in the XML implementation of the keyword value
dc:terms:spatial	Part B.4.1 Geographic bounding box	-
dc:terms:temporal	Part B.5.1 Temporal extent	-
dc:terms:issued	Part B.5.2 Date of publication	-
dc:terms:modified	Part B.5.3 Date of last revision	-

Dublin Core	INSPIRE	Comments
dc:terms:created	Part B.5.4 Date of creation	-
-	Part B.6.1 Lineage	Not applicable to services
-	Part B.6.2 Spatial resolution	Not supported by Dublin Core
dc:terms:conformsTo	Part B.7 Conformity	-
dc:rights	Part B.8.1 Conditions applying to access and use	-
dc:terms:accessRights	Part B.8.2 Limitations on public access	-
dc:contributor	Part B.9 Responsible organisation	Depending on the role played by the responsible organisation
dc:creator		
dc:publisher		
-	Part B.10.1 Metadata point of contact	Not supported in Dublin Core without creating an additional resource
-	Part B.10.2 Metadata date	Not supported in Dublin Core without creating an additional resource
-	Part B.10.3 Metadata language	Can be supported in the XML Implementation of Dublin Core through the xml:lang attribute