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ANNEX

METADATA IMPLEMENTING RULES

PART B

Metadata elements

1. IDENTIFICATION

The following metadata elements shall be provided:

1.1. Resource title

This is a characteristic, and often unique, name by which the resource is known.

The value domain of this metadata element is free text.

1.2. Resource abstract

This is a brief narrative summary of the content of the resource.

The value domain of this metadata element is free text.

1.3. Resource type

This is the type of resource being described by the metadata.

The value domain of this metadata element is defined in Part D.1.

1.4. Resource locator

The resource locator defines the link(s) to the resource and/or the link to additional information about the resource.

The value domain of this metadata element is a character string, commonly expressed as uniform resource locator (URL).

1.5. Unique resource identifier

A value uniquely identifying the resource.

The value domain of this metadata element is a mandatory character string code, generally assigned by the data owner, and a character string namespace uniquely identifying the context of the identifier code (for example, the data owner).

1.6. Coupled resource

If the resource is a spatial data service, this metadata element identifies, where relevant, the target spatial data set(s) of the service through their unique resource identifiers (URI).

The value domain of this metadata element is a mandatory character string code, generally assigned by the data owner, and a character string namespace uniquely identifying the context of the identifier code (for example, the data owner).

1.7. Resource language

The language(s) used within the resource.

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The value domain of this metadata element is limited to the languages defined in ISO 639-2.

2. CLASSIFICATION OF SPATIAL DATA AND SERVICES

2.1. Topic category

The topic category is a high-level classification scheme to assist in the grouping and topic-based search of available spatial data resources.

The value domain of this metadata element is defined in Part D.2.

2.2. Spatial data service type

This is a classification to assist in the search of available spatial data services. A specific service shall be categorised in only one category.

The value domain of this metadata element is defined in Part D.3.

3. KEYWORD

If the resource is a spatial data service, at least one keyword from Part D.4 shall be provided.

If a resource is a spatial data set or spatial data set series, at least one keyword shall be provided from the general environmental multilingual thesaurus (GEMET) describing the relevant spatial data theme as defined in Annex I, II or III to Directive 2007/2/EC.

For each keyword, the following metadata elements shall be provided:

3.1. Keyword value

The keyword value is a commonly used word, formalised word or phrase used to describe the subject. While the topic category is too coarse for detailed queries, keywords help narrowing a full text search and they allow for structured keyword search.

The value domain of this metadata element is free text.

3.2. Originating controlled vocabulary

If the keyword value originates from a controlled vocabulary (thesaurus, ontology), for example GEMET, the citation of the originating controlled vocabulary shall be provided.

This citation shall include at least the title and a reference date (date of publication, date of last revision or of creation) of the originating controlled vocabulary.

4. GEOGRAPHIC LOCATION

The requirement for geographic location referred to in Article 11(2)(e) of Directive 2007/2/EC shall be expressed with the metadata element geographic bounding box.

4.1. Geographic bounding box

This is the extent of the resource in the geographic space, given as a bounding box.

The bounding box shall be expressed with westbound and eastbound longitudes, and southbound and northbound latitudes in decimal degrees, with a precision of at least two decimals.

5. TEMPORAL REFERENCE

This metadata element addresses the requirement to have information on the temporal dimension of the data as referred to in Article 8(2)(d) of Directive 2007/2/EC. At least one of the metadata elements referred to in points 5.1 to 5.4 shall be provided.

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The value domain of the metadata elements referred to in points 5.1 to 5.4 is a set of dates. Each date shall refer to a temporal reference system and shall be expressed in a form compatible with that system. The default reference system shall be the Gregorian calendar, with dates expressed in accordance with ISO 8601.

5.1. Temporal extent

The temporal extent defines the time period covered by the content of the resource. This time period may be expressed as any of the following:

- an individual date,
- an interval of dates expressed through the starting date and end date of the interval,
- a mix of individual dates and intervals of dates.

5.2. Date of publication

This is the date of publication of the resource when available, or the date of entry into force. There may be more than one date of publication.

5.3. Date of last revision

This is the date of last revision of the resource, if the resource has been revised. There shall not be more than one date of last revision.

5.4. Date of creation

This is the date of creation of the resource. There shall not be more than one date of creation.

6. QUALITY AND VALIDITY

The requirements referred to in Article 5(2) and Article 11(2) of Directive 2007/2/EC relating to the quality and validity of spatial data shall be addressed by the following metadata elements:

6.1. Lineage

This is a statement on process history and/or overall quality of the spatial data set. Where appropriate it may include a statement whether the data set has been validated or quality assured, whether it is the official version (if multiple versions exist), and whether it has legal validity.

The value domain of this metadata element is free text.

6.2. Spatial resolution

Spatial resolution refers to the level of detail of the data set. It shall be expressed as a set of zero to many resolution distances (typically for gridded data and imagery-derived products) or equivalent scales (typically for maps or map-derived products).

An equivalent scale is generally expressed as an integer value expressing the scale denominator.

A resolution distance shall be expressed as a numerical value associated with a unit of length.

7. CONFORMITY

The requirements referred to in Article 5(2)(a) and Article 11(2)(d) of Directive 2007/2/EC relating to the conformity, and the degree of conformity, with implementing rules adopted under Article 7(1) of Directive 2007/2/EC shall be addressed by the following metadata elements:

7.1. Specification

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This is a citation of the implementing rules adopted under Article 7(1) of Directive 2007/2/EC or other specification to which a particular resource conforms.

A resource may conform to more than one implementing rules adopted under Article 7(1) of Directive 2007/2/EC or other specification.

This citation shall include at least the title and a reference date (date of publication, date of last revision or of creation) of the implementing rules adopted under Article 7(1) of Directive 2007/2/EC or of the specification.

7.2. Degree

This is the degree of conformity of the resource to the implementing rules adopted under Article 7(1) of Directive 2007/2/EC or other specification.

The value domain of this metadata element is defined in Part D.

8. CONSTRAINT RELATED TO ACCESS AND USE

A constraint related to access and use shall be either or both of the following:

- a set of conditions applying to access and use (8.1),
- a set of limitations on public access (8.2).

8.1. Conditions applying to access and use

This metadata element defines the conditions for access and use of spatial data sets and services, and where applicable, corresponding fees as required by Article 5(2)(b) and Article 11(2)(f) of Directive 2007/2/EC.

The value domain of this metadata element is free text.

The element must have values. 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.

This element shall also provide information on any fees necessary to access and use the resource, if applicable, or refer to a uniform resource locator (URL) where information on fees is available.

8.2. Limitations on public access

When Member States limit public access to spatial data sets and spatial data services under Article 13 of Directive 2007/2/EC, this metadata element shall provide information on the limitations and the reasons for them.

If there are no limitations on public access, this metadata element shall indicate that fact.

The value domain of this metadata element is free text.

9. ORGANISATIONS RESPONSIBLE FOR THE ESTABLISHMENT, MANAGEMENT, MAINTENANCE AND DISTRIBUTION OF SPATIAL DATA SETS AND SERVICES

For the purposes of Article 5(2)(d) and Article 11(2)(g) of Directive 2007/2/EC, the following two metadata elements shall be provided:

9.1. Responsible party

This is the description of the organisation responsible for the establishment, management, maintenance and distribution of the resource.

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This description shall include:

- the name of the organisation as free text,
- a contact e-mail address as a character string.

9.2. Responsible party role

This is the role of the responsible organisation.

The value domain of this metadata element is defined in Part D.

10. METADATA ON METADATA

For the purposes of Article 5(1) of Directive 2007/2/EC the following metadata elements shall be provided:

10.1. Metadata point of contact

This is the description of the organisation responsible for the creation and maintenance of the metadata.

This description shall include:

- the name of the organisation as free text,
- a contact e-mail address as a character string.

10.2. Metadata date

The date which specifies when the metadata record was created or updated.

This date shall be expressed in conformity with ISO 8601.

10.3. Metadata language

This is the language in which the metadata elements are expressed.

The value domain of this metadata element is limited to the official languages of the Community expressed in conformity with ISO 639-2.

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Changes and effects yet to be applied to the whole legislation item and associated provisions

- Annex 1-3 inserted by [S.I. 2018/1338 reg. 10\(6\)](#)
- Annex 4 Annex renumbered as Annex 4 by [S.I. 2018/1338 reg. 10\(7\)](#)
- Annex 4 Pt. B para. 7.1 word substituted by [S.I. 2018/1338 reg. 10\(8\)\(f\)\(ii\)\(bb\)](#)
- Annex 4 Pt. B para. 7.1 words inserted by [S.I. 2018/1338 reg. 10\(8\)\(f\)\(ii\)\(aa\)](#)
- Annex 4 Pt. B para. 5 words omitted by [S.I. 2018/1338 reg. 10\(8\)\(c\)](#)
- Annex 4 Pt. B para. 7.1 words omitted by [S.I. 2018/1338 reg. 10\(8\)\(f\)\(i\)](#)
- Annex 4 Pt. B para. 7.2 words omitted by [S.I. 2018/1338 reg. 10\(8\)\(g\)](#)
- Annex 4 Pt. D para. 2 words omitted by [S.I. 2018/1338 reg. 10\(10\)\(a\)](#)
- Annex 4 Pt. B para. 3 words substituted by [S.I. 2018/1338 reg. 10\(8\)\(a\)](#)
- Annex 4 Pt. B para. 4 words substituted by [S.I. 2018/1338 reg. 10\(8\)\(b\)](#)
- Annex 4 Pt. B para. 6 words substituted by [S.I. 2018/1338 reg. 10\(8\)\(d\)](#)
- Annex 4 Pt. B para. 7 words substituted by [S.I. 2018/1338 reg. 10\(8\)\(e\)\(i\)](#)
- Annex 4 Pt. B para. 7 words substituted by [S.I. 2018/1338 reg. 10\(8\)\(e\)\(ii\)](#)
- Annex 4 Pt. B para. 8.1 words substituted by [S.I. 2018/1338 reg. 10\(8\)\(h\)](#)
- Annex 4 Pt. B para. 8.2 words substituted by [S.I. 2018/1338 reg. 10\(8\)\(i\)\(i\)](#)
- Annex 4 Pt. B para. 8.2 words substituted by [S.I. 2018/1338 reg. 10\(8\)\(i\)\(ii\)](#)
- Annex 4 Pt. B para. 9 words substituted by [S.I. 2018/1338 reg. 10\(8\)\(j\)](#)
- Annex 4 Pt. B para. 10 words substituted by [S.I. 2018/1338 reg. 10\(8\)\(k\)](#)
- Annex 4 Pt. C words substituted by [S.I. 2018/1338 reg. 10\(9\)](#)
- Annex 4 Pt. D para. 2 words substituted by [S.I. 2018/1338 reg. 10\(10\)\(b\)](#)
- Annex 4 Pt. D para. 2 words substituted by [S.I. 2018/1338 reg. 10\(10\)\(c\)](#)
- Annex 4 Pt. D para. 2 words substituted by [S.I. 2018/1338 reg. 10\(10\)\(d\)](#)