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ANNEX II

DISCOVERY SERVICES

PART A

Search criteria

In order to be in conformity with the minimum set of search criteria set out in Article 11(2) of Directive 2007/2/EC, the Discovery Service shall support searching with the INSPIRE metadata elements listed in Table 1 of this Annex.

TABLE 1

Minimum search criteria	INSPIRE metadata elements
Keywords	Keyword
Classification of spatial data and services (For spatial data sets and spatial data set series)	Topic category
Classification of spatial data and services (For spatial data services)	Spatial data service type
The quality and validity of spatial data sets	Lineage
The quality and validity of spatial data sets	Spatial resolution
Degree of conformity with the implementing rules provided for in Article 7(1) of Directive 2007/2/EC	Specification
Degree of conformity with the implementing rules provided for in Article 7(1) of Directive 2007/2/EC	Degree
Geographical location	Geographic bounding box
Conditions applying to the access to and use of spatial data sets and services	Conditions applying to access and use
Conditions applying to the access to and use of spatial data sets and services	Limitations on public access
The public authorities responsible for the establishment, management, maintenance and distribution of spatial data sets and services	Responsible party
The public authorities responsible for the establishment, management, maintenance and distribution of spatial data sets and services	Responsible party role

The following INSPIRE metadata elements or set of elements shall be also available as search criteria:

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- (a) Resource Title;
- (b) Resource Abstract;
- (c) Resource type;
- (d) Unique Resource Identifier;
- (e) Temporal Reference.

To allow for discovering resources through a combination of search criteria, logical and comparison operators shall be supported.

To allow for discovering resources based on the geographic location of the resource, the spatial operator listed in Table 2 shall be supported.

TABLE 2

Operator Name	Property
Intersects	Requires the geographic bounding box INSPIRE metadata element to intersect a defined area of interest

PART B

Operations

1. LIST OF OPERATIONS

In order to be in conformity with Article 11(1) of Directive 2007/2/EC, the Discovery Service shall provide the operations listed in Table 3 of this Annex.

TABLE 3

Operation	Role
Get Discovery Service Metadata	Provides all necessary information about the service and describes service capabilities
Discover Metadata	The Discover Metadata operation allows requesting INSPIRE metadata elements of resources based on a query statement to be retrieved from the target Discovery Service

In order to be in conformity with Article 12 of Directive 2007/2/EC, the Discovery Service shall support the operations listed in Table 4 of this Annex.

TABLE 4

Operation	Role
Publish Metadata	The Publish Metadata operation allows editing INSPIRE metadata elements of resources in the Discovery Service (push or

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	pull metadata mechanisms). Editing meaning insert, update and delete
Link Discovery Service	The Link Discovery Service function allows the declaration of the availability of a Discovery Service for the discovery of resources through the Member State Discovery Service while maintaining the resource metadata at the owner location

The request and response parameters of each operation complete the description of each operation and form an integral part of the Discovery Service technical specification.

2. GET DISCOVERY SERVICE METADATA OPERATION

2.1. Get Discovery Service Metadata Request

2.1.1. Get Discovery Service Metadata Request parameters

The Get Discovery Service Metadata Request parameter indicates the natural language for the content of the Get Discovery Service Metadata Response

2.2. Get Discovery Service Metadata Response

The Get Discovery Service Metadata Response shall contain the following sets of parameters:

- Discovery Service Metadata,
- Operations Metadata,
- Languages.

2.2.1. Discovery Service Metadata parameters

The Discovery Service Metadata parameters shall at least contain the INSPIRE metadata elements of the Discovery Service.

2.2.2. Operations Metadata parameters

The Operations Metadata parameter provides metadata about the operations implemented by the Discovery Service. These metadata parameters shall describe each operation. It shall at least provide the following:

1. indicate for the Publish Metadata if the Pull Mechanism, the Push Mechanism or both are available;
2. describe each operation, including as a minimum a description of the data exchanged and the network address.

2.2.3. Languages parameter

Two language parameters shall be provided:

- the Response Language parameter indicating the natural language used in the Get Discovery Service Metadata Response parameters,
- the Supported Languages parameter containing the list of the natural languages supported by the Discovery Service.

3. DISCOVER METADATA OPERATION

3.1. Discover Metadata Request

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This Discovery Metadata Request contains the following parameters:

- Language,
- Query.

3.1.1. *Language parameter*

The Language parameter indicates the natural language requested for the content of the Discover Metadata Response.

3.1.2. *Query parameter*

The Query parameter shall contain the combination of search criteria as specified in part A.

3.2. **Discover Metadata Response**

3.2.1. *Discover Metadata Response parameter*

The Discover Metadata Response parameter shall contain at least the INSPIRE metadata elements of each resource matching the query.

4. PUBLISH METADATA OPERATION

The Publish Metadata function enables the publication of the INSPIRE metadata elements of resources at the Discovery Service. Two alternatives are:

- Push Mechanism: allowing editing of the INSPIRE metadata elements of resources accessible from the Discovery Service,
- Pull Mechanism: allows the Member State Discovery Service to pull INSPIRE metadata elements of resources from a remote location.

At least one of the above alternatives shall be supported.

4.1. **Push Mechanism**

4.1.1. *Edit Metadata Request*

4.1.1.1. *Edit Metadata Request parameter*

The Edit Metadata Request parameter provides all information requested for INSPIRE metadata elements of resources to be inserted, updated or deleted at the Discovery Service.

4.2. **Pull Mechanism**

4.2.1. *Collect Metadata Request*

4.2.1.1. *Collect Metadata Request parameter*

The Collect Metadata Request parameter provides all information about the remote location required to retrieve the available metadata of resources. It shall include as a minimum the INSPIRE metadata elements of the dedicated spatial data service.

5. LINK DISCOVERY SERVICE OPERATION

The Link Discovery Service operation allows the declaration of the availability of a Discovery Service compliant with this Regulation, for the discovery of resources through the Member State Discovery Service while maintaining the resource metadata at the owner location.

5.1. **Link Discovery Service Request**

5.1.1. *Link Discovery Service Request parameter*

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The Link Discovery Service Request parameter shall provide all information about the Public Authority's or Third Party's Discovery Service compliant with this Regulation, enabling the Member State Discovery Service to get resources metadata based on a combination of search criteria from the Public Authority's or Third Party's Discovery Service and to collate it with other resources metadata.

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

- Annex 1 words substituted by [S.I. 2018/1338 reg. 12\(5\)](#)
- Annex 2 Pt. B words omitted by [S.I. 2018/1338 reg. 12\(6\)\(b\)\(i\)](#)
- Annex 2 Pt. A words substituted by [S.I. 2018/1338 reg. 12\(6\)\(a\)\(i\)](#)
- Annex 2 Pt. B words substituted by [S.I. 2018/1338 reg. 12\(6\)\(b\)\(ii\)](#)
- Annex 2 Pt. B words substituted by [S.I. 2018/1338 reg. 12\(6\)\(b\)\(iii\)](#)
- Annex 2 Pt. A words omitted by [S.I. 2018/1338 reg. 12\(6\)\(a\)\(ii\)\(bb\)](#)
- Annex 2 Pt. A words substituted by [S.I. 2018/1338 reg. 12\(6\)\(a\)\(ii\)\(aa\)](#)
- Art. 2(5) words substituted by [S.I. 2018/1338 reg. 12\(3\)\(b\)](#)
- Art. 2(13) inserted by [S.I. 2018/1338 reg. 12\(3\)\(c\)](#)
- Annex 3 Pt. A para. 4.1.1 words omitted by [S.I. 2018/1338 reg. 12\(7\)\(a\)\(vi\)](#)
- Annex 3 Pt. A words substituted by [S.I. 2018/1338 reg. 12\(7\)\(a\)\(i\)](#)
- Annex 3 Pt. A words substituted by [S.I. 2018/1338 reg. 12\(7\)\(a\)\(ii\)](#)
- Annex 3 Pt. B words substituted by [S.I. 2018/1338 reg. 12\(7\)\(b\)](#)
- Annex 3 Pt. A words omitted by [S.I. 2018/1338 reg. 12\(7\)\(a\)\(iii\)](#)
- Annex 4 Pt. A para. 5 words omitted by [S.I. 2018/1338 reg. 12\(8\)\(c\)](#)
- Annex 4 Pt. A para. 5.1.1 words omitted by [S.I. 2018/1338 reg. 12\(8\)\(d\)](#)
- Annex 4 Pt. A words substituted by [S.I. 2018/1338 reg. 12\(8\)\(a\)](#)
- Annex 4 Pt. A words substituted by [S.I. 2018/1338 reg. 12\(8\)\(b\)](#)
- Annex 5 words omitted by [S.I. 2018/1338 reg. 12\(9\)\(b\)](#)
- Annex 5 para. 4.1.1 words omitted by [S.I. 2018/1338 reg. 12\(9\)\(c\)](#)
- Annex 5 words substituted by [S.I. 2018/1338 reg. 12\(9\)\(a\)](#)