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[**F1**ANNEX IV

DOWNLOAD SERVICES

Textual Amendments

F1   Inserted by Commission Regulation (EU) No 1088/2010 of 23 November 2010 amending Regulation (EC) No 976/2009 as regards download services and transformation services.

PART A

Download Operations

1.   LIST OF OPERATIONS

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

TABLE 1

Operation	Role
Get Download Service Metadata	Provides all necessary information about the service, the available Spatial Data Sets, and describes the service capabilities.
Get Spatial Data Set	The Get Spatial Data Set operation allows the retrieval of a Spatial Data Set.
Describe Spatial Data Set	This operation returns the description of all the types of Spatial Objects contained in the Spatial Data Set.
Link Download Service	Allows the declaration, by a Public Authority or a Third Party, of the availability of a Download Service for downloading Spatial Data Sets or, where practicable, Spatial Objects, through the Member State's Download Service while maintaining the downloading capability at the Public Authority or the Third Party location.

The request and response parameters of each operation complete the description of each operation and form an integral part of the Download Service's technical specifications.

2.   GET DOWNLOAD SERVICE METADATA OPERATION

2.1.   **Get Download Service Metadata request**

2.1.1.   *Get Download Service Metadata request parameter*

The Get Download Service Metadata request parameter shall indicate the natural language to be used for the content of the Get Download Service Metadata response.

2.2.   **Get Download Service Metadata response**

The Get Download Service Metadata response shall contain the following sets of parameters:
— Download Service Metadata,
— Operations Metadata,
— Languages,
— Spatial Data Sets Metadata.

2.2.1. *Download Service Metadata parameter*

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

2.2.2. *Operations Metadata parameter*

The Operations metadata parameter provides metadata about the operations implemented by the Download Service. It shall at least provide a description of 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 Download Service Metadata response parameters,
— the Supported languages parameter containing the list of the natural languages supported by the Download Service.

2.2.4. *Spatial Data Sets Metadata parameters*

The INSPIRE metadata elements of the available Spatial Data Sets shall be provided. In addition, for each Spatial Data Set, the list of those Coordinate Reference Systems referred to in Regulation (EU) No 1089/2010 which are available shall also be provided.

3.   GET SPATIAL DATA SET OPERATION

3.1.   **Get Spatial Data Set request**

The Get Spatial Data Set request contains the following parameters:
— Language,
— Spatial Data Set Identifier,
— Coordinate Reference System.

3.1.1. *Language parameter*

The Language parameter shall indicate the natural language requested for the Spatial Data Set.

3.1.2. *Spatial Data Set Identifier parameter*

The Spatial Data Set Identifier parameter shall contain the Unique Resource Identifier of the Spatial Data Set.

3.1.3. *Coordinate Reference System parameter*

The Coordinate Reference System parameter shall contain one of the Coordinate Reference Systems included in the list of available Coordinate Reference Systems referred to in point 2.2.4.

3.2.   **Get Spatial Data Set response**

3.2.1. *Get Spatial Data Set response parameter*

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The Get Spatial Data Set response parameter shall be the requested Spatial Data Set in the requested language and in the requested Coordinate Reference System.

4.   DESCRIBE SPATIAL DATA SET OPERATION

4.1.   **Describe Spatial Data Set request**

The Describe Spatial Data Set request shall contain the following parameters:

—   Language,

—   Spatial Data Set Identifier.

4.1.1.   *Language parameter*

The Language parameter shall indicate the natural language requested for the description of the Spatial Objects type.

4.1.2.   *Spatial Data Set Identifier parameter*

The Spatial Data Set Identifier parameter shall contain the Unique Resource Identifier of the Spatial Data Set.

4.2.   **Describe Spatial Data Set response**

4.2.1.   *Describe Spatial Data Set response parameter*

The Describe Spatial Data Set response parameter shall be the description of the Spatial Objects in the requested Spatial Data Set and in the requested language.

5.   LINK DOWNLOAD SERVICE OPERATION

The Link Download Service operation allows the declaration of the availability of a Download Service compliant with this Regulation, for the download of resources through the Member State's Download Service while maintaining the resources at the owner location.

5.1.   **Link Download Service request**

5.1.1.   *Link Download Service request parameter*

The Link Download Service request parameter shall provide all information about the Public Authority's or Third Party's Download Service compliant with this Regulation, enabling the Member State Download Service to provide access to Spatial Data Sets and, where practicable, to Spatial Objects from the Public Authority's or Third Party's Download Service.

PART B

Direct Access Download Operations

6.   LIST OF OPERATIONS

Where the Download Service gives direct access to spatial data sets, it shall provide, in addition to the operations listed in Table 1, the operations listed in Table 2 of this Annex.

TABLE 2

Operation	Role

Get Spatial Object	This operation allows the retrieval of Spatial Objects based upon a query.
Describe Spatial Object Type	This operation returns the description of the specified Spatial Objects types.

The request and response parameters of each operation complete the description of each operation and form an integral part of the Download Service's technical specifications.

7.   GET SPATIAL OBJECT OPERATION

7.1.   **Get Spatial Object request**

The Get Spatial Object request shall support the following parameters:
—   Language,
—   Spatial Data Set Identifier,
—   Coordinate Reference System,
—   Query.

7.1.1.   *Language parameter*

The Language parameter shall indicate the natural language requested for the Spatial Objects.

7.1.2.   *Spatial Data Set Identifier parameter*

The Spatial Data Set Identifier parameter shall contain the Unique Resource Identifier of the required Spatial Data Set. Where the parameter is not provided, it shall be assumed that all available Spatial Data Sets have been selected.

7.1.3.   *Coordinate Reference System parameter*

The Coordinate Reference System parameter shall contain one of the Coordinate Reference Systems included in the list of Coordinate Reference Systems set out in Regulation (EU) No 1089/2010.

7.1.4.   *Query parameter*

The query parameter shall be composed of the search criteria listed in part C.

7.2.   **Get Spatial Object response**

The Get Spatial Object response shall contain the following parameters:
—   Spatial Objects Set,
—   Spatial Objects Set Metadata.

7.2.1.   *Spatial Objects Set parameter*

The Spatial Objects Set parameter shall be the set of Spatial Objects which complies with Regulation (EU) No 1089/2010 and fulfils the search criteria in the query, in the requested language and in the Coordinate Reference System.

7.2.2.   *Spatial Objects Set Metadata parameter*

The Spatial Objects Set Metadata parameter shall contain at least the INSPIRE metadata elements of the set of Spatial Objects.

8.   DESCRIBE SPATIAL OBJECT TYPE OPERATION

8.1. **Describe Spatial Object Type request**

The Describe Spatial Object Type request shall contain the following parameters:

— Language,

— Spatial Object Type.

8.1.1. *Language parameter*

The Language parameter shall indicate the natural language requested for the description of the Spatial Object type.

8.1.2. *Spatial Object Type parameter*

The Spatial Object Type parameter shall contain the language-neutral name of the Spatial Object Type as specified in Regulation (EU) No 1089/2010. Where the parameter is not provided, it shall be assumed that all types of Spatial Objects have been selected.

8.2. **Describe Spatial Object Type response**

8.2.1. *Describe Spatial Object Type response parameter*

The Describe Spatial Object type response parameter shall be the description of the spatial object type, in conformity with Regulation (EU) No 1089/2010.

PART C

Search Criteria for the Get Spatial Object Operation

For the purposes of the Get Spatial Object Operation of the Download Service, the following search criteria shall be implemented:

— Unique Resource Identifier of Spatial Data Set,

— all relevant key attributes and the relationship between Spatial Objects as set out in Regulation (EU) No 1089/2010; in particular the Unique Identifier of Spatial Object and the temporal dimension characteristics, including the date of update,

— bounding box, expressed in any of the Coordinate Reference Systems listed in Regulation (EU) No 1089/2010,

— Spatial Data Theme.

To allow for discovering spatial objects through a combination of search criteria, logical and comparison operators shall be supported.**]**

Status:
Point in time view as at 31/01/2020.

Changes to legislation:
There are outstanding changes not yet made to Commission Regulation (EC) No 976/2009. Any changes that have already been made to the legislation appear in the content and are referenced with annotations.