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COMMISSION OF THE EUROPEAN COMMUNITIES

Brussels, XXX
C(20YY)YYY

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Draft

COMMISSION REGULATION (EC) No .../..

of [...]

Amending Commission Regulation C (20XX) YYY of [date] implementing Directive 2007/2/EC of the European Parliament and of the Council as regards the Network Services Article 11(1)(d) on transformation services

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COMMISSION REGULATION (EC) No .../..

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Amending Commission Regulation C (20XX) YYY of [date] implementing Directive 2007/2/EC of the European Parliament and of the Council as regards the Network Services Article 11(1)(d) on transformation services

THE COMMISSION OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Community,

Having regard to Directive 2007/2/EC of the European Parliament and of the Council of 14 March 2007 establishing an Infrastructure for Spatial Information in the European Community (INSPIRE)¹, and in particular Article 16 thereof,

Whereas:

- (1) Transformations Services are one of the mechanisms by which Spatial Data Sets are made available in conformity with the Implementing Rules laying down technical arrangements for the interoperability and, where practicable, harmonisation of Spatial Data Sets and services as an alternative to the direct provision of the harmonized Spatial Data Sets with the Download Service. This implies that Transformation Service has an especially important role in the context of the Download Service, as a tool for achieving data conformity on the service level.
- (2) As per their role, the transformation services must be operationally available not later than when the Spatial Data Sets are required to be available in conformity with the Implementing Rules laying down technical arrangements for the interoperability and, where practicable, harmonisation of Spatial Data Sets.
- (3) The measures provided for in this Regulation are in accordance with the opinion of the Committee established by Article 22 of Directive 2007/2/EC,

HAS ADOPTED THIS REGULATION:

Article 1

Subject Matter

This Regulation sets out the requirements for the establishment and maintenance of the transformation Services provided for in Article 11(1)(d) of Directive 2007/2/EC (hereinafter

¹ OJ L 108, 25.4.2007, p. 1.

“the Transformation Services”) and obligations related to the availability of those services to the public authorities of the Member States and third parties pursuant to Article 12 of that Directive.

Article 2

Requirements for Transformation Services

The following is appended to article (3) of the Regulation 20xx/yyyy/EC.

- (c) As concerns the Transformation Services, the applicable specific requirements and characteristics set out in Annex I of the Regulation 20xx/yyyy/EC and annex I and II of this Regulation;

Article 4

Access to the Transformation Services

The following is appended to article (4) of the Regulation 20xx/yyyy/EC.

1. Not later than [DATE = 18 months after the date of entry into force of the implementing rules laying down technical arrangements for the interoperability and, where practicable, harmonisation of spatial data sets and services], Member States shall provide the Transformation Services with initial operating capability.
2. Not later than [DATE = 24 months after the date of entry into force of the implementing rules laying down technical arrangements for the interoperability and, where practicable, harmonisation of spatial data sets and services] Member States shall provide the Transformation Services in conformity with this Regulation.

Article 5

Entry into force

This Regulation shall enter into force on the [twentieth](#) day following that of its publication in the *Official Journal of the European Union*.

This Regulation shall be binding in its entirety and directly applicable in all Member States.

Done at Brussels, [...]

For the Commission

[...]

Member of the Commission

ANNEX I

Quality of Service

The following Quality of Service criteria relating to capacity shall be ensured for the Transformation Service.

1. CAPACITY

The minimum number of served simultaneous requests to a Transformation Service according to the performance Quality of Service shall be 5 requests per second.

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ANNEX II

Transformation Service

Part A

Transformation Operations

1. LIST OF OPERATIONS

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

Table 1

Operation	Role
Get Transformation Service Metadata	Provides all necessary information about the service and describes the service capabilities including the supported transformation category, supported transformations, accepted input data types, supported model definition and mapping languages.
Transform	Carries out the actual transformation process.
Link Transformation Service	Allows the declaration of a Transformation Service for Transforming Spatial Data Sets through the Member State Transformation Services while maintaining the Transformation 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 Transformation Service technical specification.

2. GET TRANSFORMATION SERVICE METADATA OPERATION

2.1. *Get Transformation Service Metadata request*

2.1.1. *Get Transformation Service Metadata request parameter*

The Get Transformation Service Metadata request parameter indicates the natural language for the content of the Get Transformation Service Metadata response.

2.2. *Get Transformation Service Metadata response*

The Get Transformation Service Metadata response shall contain the following sets of parameters:

- Transformation Service Metadata;
- Operations Metadata;
- Languages.

2.2.1. Transformation Service Metadata parameter

The Transformation Service Metadata parameter shall at least contain the INSPIRE metadata elements of the Transformation Service.

2.2.2. Operations Metadata parameter

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

- Describe each operation, including as a minimum a description of the data exchanged and the network address;
- List the transformation categories accepted by the Transform operation;
- List the encoding for the input Spatial Data Set accepted by the Transform operation;
- List the Data Model languages accepted by the Transform operation;
- List the Model Mapping languages accepted by the Transform operation.

2.2.3. Languages parameter

Two parameters shall be provided:

- The response language parameter indicating the natural language used in the Get Transformation Service Metadata response;
- The supported languages parameter containing the list of the natural languages supported by the Transformation Service.

3. TRANSFORM OPERATION

3.1. Transform request

The Transform request contains the following parameters:

- Input Spatial Data Set;
- Source Model;
- Target Model;
- Model Mapping.

3.1.1. Input Spatial Data Set parameter

The Input Spatial Data Set parameter indicates the Spatial Data Set to be transformed.

3.1.2. Source Model parameter

The Source Model parameter specifies the model of the Input Spatial Data Set.

3.1.3. Target Model parameter

The Target Model parameter specifies the model to which the input Spatial Data Set shall be transformed.

3.1.4. Model Mapping parameter

The Model Mapping parameter specifies the mapping from the Source Model to the Target Model.

3.2. Transform response

3.2.1. Transform response parameter

The Transform response parameter contains the transformed Spatial Data Set in conformity with the implementing rules laying down technical arrangements for the interoperability and, where practicable, harmonisation of spatial data sets and services.

4. LINK TRANSFORMATION SERVICE OPERATION

4.1. Link Transformation Service request

4.1.1. Link Transformation Service request parameter

The Link Transformation Service request parameter shall provide all information about the Public Authority's or Third Party's Transformation Service in conformity with this regulation, enabling the use of the Public Authority's or Third Party's Transformation Service by the Member State Transformation Service.