

**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. (See end of Document for details) View outstanding changes

## [<sup>F1</sup> ANNEX V

### TRANSFORMATION SERVICES Transformation Operations

#### 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.

#### 1. LIST OF OPERATIONS

In order to be in conformity with Article 11(1)(d) of 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 availability of a Transformation Service for Transforming Spatial Data Sets through the Member State's 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's technical specifications.

#### 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 shall indicate 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

---

**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. (See end of Document for details) View outstanding changes

---

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.

It shall describe each operation, including as a minimum a description of the data exchanged and the network address, and shall list the following:

- the transformation categories accepted by the Transform operation,
- the encoding for the input Spatial Data Set accepted by the Transform operation,
- the Data Model languages accepted by the Transform operation,
- 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 shall contain 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 shall indicate the Spatial Data Set to be transformed.

##### 3.1.2. *Source Model parameter*

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

##### 3.1.3. *Target Model parameter*

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

##### 3.1.4. *Model Mapping parameter*

The Model Mapping parameter shall specify the mapping from the Source Model to the Target Model.

#### 3.2. **Transform response**

##### 3.2.1. *Transform response parameter*

The Transform response parameter shall contain the Spatial Data Set transformed in conformity with Regulation (EU) No 1089/2010.

**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. (See end of Document for details) [View outstanding changes](#)*

---

#### 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's Transformation Service.]

**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.

[View outstanding changes](#)

**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\(9\)\(a\)](#)