

Commission Decision of 5 June 2009 implementing Directive 2007/2/EC of the European Parliament and of the Council as regards monitoring and reporting (notified under document number C(2009) 4199) (Text with EEA relevance) (2009/442/EC) (repealed)

CHAPTER IV

MONITORING OF THE IMPLEMENTATION OF NETWORK SERVICES REQUIREMENTS

Article 7

Monitoring of the accessibility of metadata through discovery services

1 The following indicators shall be used to measure the accessibility of metadata for the spatial data sets and services corresponding to the themes listed in Annexes I, II and III to Directive 2007/2/EC through the discovery services referred to in Article 11(1)(a) of that Directive:

- a a general indicator (NSi1), which measures the extent to which it is possible to search for spatial data sets and spatial data services corresponding to the themes listed in Annexes I, II and III to Directive 2007/2/EC on the basis of their corresponding metadata through discovery services;
- b the following specific indicators:
 - (i) NSi1,1, which measures the extent to which it is possible to search for spatial data sets corresponding to the themes listed in Annexes I, II and III to Directive 2007/2/EC on the basis of their corresponding metadata through discovery services;
 - (ii) NSi1,2, which measures the extent to which it is possible to search for spatial data services corresponding to the themes listed in Annexes I, II and III to Directive 2007/2/EC on the basis of their corresponding metadata through discovery services.

2 Member States shall determine, for each spatial data set and spatial data service mentioned on the list referred to in Article 2(1), whether a discovery service exists and shall attribute to the data set or service the following values:

- a value 1 where a discovery service exists;
- b value 0 where no discovery service exists.

3 Member States shall calculate the general indicator NSi1 by dividing the number of spatial data sets and spatial data services corresponding to the themes listed in Annexes I, II and III to Directive 2007/2/EC for which a discovery service exists, by the total number of spatial data sets and spatial data services corresponding to themes listed in those Annexes.

4 Member States shall calculate the specific indicators as follows:

- a the number of spatial data sets corresponding to the themes listed in Annexes I, II and III to Directive 2007/2/EC for which a discovery service exists, divided by the total number of spatial data sets corresponding to themes listed in those Annexes (NSi1,1);

- b the number of spatial data services corresponding to themes listed in Annexes I, II and III to Directive 2007/2/EC for which a discovery service exists, divided by the total number of spatial data services corresponding to themes listed in those Annexes (NSi1,2).

Article 8

Monitoring of the accessibility of spatial data sets through view and download services

1 The following indicators shall be used to measure the accessibility of spatial data sets corresponding to the themes listed in Annexes I, II and III to Directive 2007/2/EC through the view and download services referred to in points (b) and (c) of Articles 11(1) of that Directive:

- a a general indicator (NSi2), which measures the extent to which it is possible to view and download spatial data sets corresponding to the themes listed in Annexes I, II and III to Directive 2007/2/EC through view and download services;
- b the following specific indicators:
 - (i) NSi2,1, which measures the accessibility of spatial data sets, corresponding to the themes listed in Annexes I, II and III to Directive 2007/2/EC through view services;
 - (ii) NSi2,2, which measures the accessibility of spatial data sets corresponding to the themes listed in Annexes I, II and III to Directive 2007/2/EC through download services.

2 Member States shall determine, for each spatial data set mentioned on the list referred to in Article 2(1), whether a view service or a download service, or both, exist and shall attribute to the data set the following values:

- a value 1 where a view service exists and value 0 where such a service does not exist;
- b value 1 where a download service exists and value 0 where such a service does not exist;
- c value 1 where both a view service and a download service exist and value 0 where at least one of them does not exist.

3 Member States shall calculate the general indicator NSi2 by dividing the number of spatial data sets corresponding to the themes listed in Annexes I, II and III to Directive 2007/2/EC for which both view and download services exist, by the total number of spatial data sets corresponding to themes listed in those Annexes (NSi2).

4 Member States shall calculate the specific indicators as follows:

- a the number of spatial data sets corresponding to the themes listed in Annexes I, II and III to Directive 2007/2/EC for which a view service exists, divided by the total number of spatial data sets corresponding to themes listed in those Annexes (NSi2,1);
- b the number of spatial data sets corresponding to the themes listed in Annexes I, II and III to Directive 2007/2/EC for which a download service exists, divided by the total number of spatial data sets corresponding to themes listed in those Annexes (NSi2,2).

Article 9

Monitoring of the use of network services

1 The following indicators shall be used to monitor the use of the network services referred to in Article 11(1) of Directive 2007/2/EC:

- a a general indicator (NSi3), which measures the use of all network services;
 - b the following specific indicators:
 - (i) NSi3,1, which measures the use of discovery services;
 - (ii) NSi3,2, which measures the use of view services;
 - (iii) NSi3,3, which measures the use of download services;
 - (iv) NSi3,4, which measures the use of transformation services;
 - (v) NSi3,5, which measures the use of invoke services.
- 2 Member States shall determine the annual number of service requests for each network service mentioned on the list referred to in Article 2(1).
- 3 Member States shall calculate the general indicator NSi3 by dividing the sum of the annual number of service requests for all network services, by the number of network services.
- 4 Member States shall calculate the specific indicators as follows:
- a the annual number of service requests for all discovery services, divided by the number of discovery services (NSi3,1);
 - b the annual number of service requests for all view services, divided by the number of view services (NSi3,2);
 - c the annual number of service requests for all download services, divided by the number of download services (NSi3,3);
 - d the annual number of service requests for all transformation services, divided by the number of transformation services (NSi3,4);
 - e the annual number of service requests for all invoke services, divided by the number of invoke services (NSi3,5).

Article 10

Monitoring of the conformity of network services

- 1 The following indicators shall be used to measure the conformity of the network services referred to in Article 11(1) of Directive 2007/2/EC with the implementing rules referred to in Article 16 of that Directive:
- a a general indicator (NSi4), which measures the conformity of all network services with the implementing rules referred to in Article 16 of Directive 2007/2/EC;
 - b the following specific indicators:
 - (i) NSi4,1, which measures the conformity of discovery services with the implementing rules referred to in Article 16 of Directive 2007/2/EC;
 - (ii) NSi4,2, which measures the conformity of view services with the implementing rules referred to in Article 16 of Directive 2007/2/EC;
 - (iii) NSi4,3, which measures the conformity of download services with the implementing rules referred to in Article 16 of Directive 2007/2/EC;
 - (iv) NSi4,4, which measures the conformity of transformation services with the implementing rules referred to in Article 16 of Directive 2007/2/EC;

- (v) NSi4,5, which measures the conformity of invoke services with the implementing rules referred to in Article 16 of Directive 2007/2/EC.

2 Member States shall determine, for each network service mentioned on the list referred to in Article 2(1) of this Decision, whether it is in conformity with the implementing rules referred to in Article 16 of Directive 2007/2/EC and shall attribute to the network service the following values:

- a value 1 where the network service is in conformity with the implementing rules referred to in Article 16 of Directive 2007/2/EC;
- b value 0 where the network service is not in conformity with the implementing rules referred to in Article 16 of Directive 2007/2/EC.

3 Member States shall calculate the general indicator NSi4 by dividing the number of network services which are in conformity with the implementing rules referred to in Article 16 of Directive 2007/2/EC, by the total number of network services.

4 Member States shall calculate the specific indicators as follows:

- a the number of discovery services which are in conformity with the implementing rules referred to in Article 16 of Directive 2007/2/EC, divided by the total number of discovery services (NSi4,1);
- b the number of view services which are in conformity with the implementing rules referred to in Article 16 of Directive 2007/2/EC, divided by the total number of view services (NSi4,2);
- c the number of download services which are in conformity with the implementing rules referred to in Article 16 of Directive 2007/2/EC, divided by the total number of download services (NSi4,3);
- d the number of transformation services which are in conformity with the implementing rules referred to in Article 16 of Directive 2007/2/EC, divided by the total number of transformation services (NSi4,4);
- e the number of invoke services which are in conformity with the implementing rules referred to in Article 16 of Directive 2007/2/EC, divided by the total number of invoke services (NSi4,5).

Article 11

Information to be provided

1 Member States shall provide the Commission with the following information:

- a the values of all general and specific indicators, expressed in percentage;
- b the numerators and denominators of all general and specific indicators;
- c the data collected under Articles 3(2), 4(2), 5(2), 6(2), 7(2), 8(2), 9(2) and 10(2).

2 The results of monitoring referred to in Article 21(1) of Directive 2007/2/EC shall relate to monitoring conducted during a calendar year, and shall be published by 15 May of the following year. Thereafter the results shall be updated at least every year.

The results relating to monitoring conducted in 2009 shall cover the period starting from the date referred to in Article 18 until the end of that year.