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Subject:	COMMISSION DELEGATED REGULATION (EU) No .../.. of 18.12.2014 supplementing Directive 2010/40/EU of the European Parliament and of the Council with regard to the provision of EU-wide real-time traffic information services
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Delegations will find attached document C(2014) 9672 final.

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Brussels, 18.12.2014  
C(2014) 9672 final

**COMMISSION DELEGATED REGULATION (EU) No .../..**

**of 18.12.2014**

**supplementing Directive 2010/40/EU of the European Parliament and of the Council  
with regard to the provision of EU-wide real-time traffic information services**

(Text with EEA relevance)

## EXPLANATORY MEMORANDUM

### **1. CONTEXT OF THE DELEGATED ACT**

The provision of EU-wide real-time traffic information services is one of 6 priorities under Article 3 of Directive 2010/40/EU (ITS Directive)<sup>1</sup>. Under Articles 7 and 12 of the same Directive the Commission is given the power to adopt binding delegated acts in accordance with Article 290 of the TFEU as regards specifications for a period of 7 years starting from 27 August 2010.

This Delegated Regulation concerns the priority action (b) set out in Article 3 of the ITS Directive. It establishes the specifications necessary to ensure the accessibility, exchange, re-use and update of road and traffic data for the provision of real-time traffic information services in the European Union. It applies to the comprehensive trans-European road network and motorways not included in this network as well as to priority zones identified by the national authorities where they consider this to be relevant. The Delegated Regulation is intended to provide appropriate framework conditions enabling the co-operation of all the relevant stakeholders (road authorities, road operators and real-time traffic information service providers) involved in the traffic information value chain, and to support the interoperability, compatibility, and continuity of real-time traffic information services across Europe meanwhile enhancing the Union's competitive position.

### **2. CONSULTATIONS & COST-BENEFIT ANALYSIS PRIOR TO THE ADOPTION OF THE ACT**

#### **2.1. Background expertise**

While keeping in mind that a market already exists and provides real-time-traffic information solutions, the Delegated Regulation for the provision of EU-wide real time traffic information services is the result of extensive consultations with different stakeholders<sup>2</sup>. A support study<sup>3</sup> was carried out by consultants.

#### **2.2. Stakeholder input to the support study**

Small group discussions with interested public and private stakeholders were carried out in May 2013.

The public authorities represented in the discussions indicated that private services would always rely on road operators information (for some categories of information), and that road operators would always require traffic data for their traffic management purposes.

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<sup>1</sup> Directive 2010/40/EU of the European Parliament and of the Council of 7 July 2010 on the framework for the deployment of Intelligent Transport Systems in the field of road transport and for interfaces with other modes, OJ L 207, 6.8.2010, p. 1.

<sup>2</sup> Details of the stakeholder consultation are provided and fully documented in the Consultation Report of the support study, which is available online: [http://ec.europa.eu/transport/themes/its/index\\_en.htm](http://ec.europa.eu/transport/themes/its/index_en.htm).

<sup>3</sup> Deliverables of this support study are available online: [http://ec.europa.eu/transport/themes/its/index\\_en.htm](http://ec.europa.eu/transport/themes/its/index_en.htm).

The private service providers who participated in the discussions indicated that public authorities should define the role and responsibilities they still want to assume, and at which cost, balancing costs and societal benefits. Traffic management and crisis management would always remain in the public domain but public authorities should be aware that new efficient tools from private companies are available for these purposes. All recommended that road operators should leave journey times production and provision to commercial actors.

For traffic regulations and traffic management measures, all public authorities agreed that information needs to be made available and timely updated. The private companies agreed that journalistic data created or collected by road operators should be made available in a harmonised and machine readable format.

### **2.3. Stakeholder workshop**

In June 2013<sup>4</sup> a workshop was organised, which was well attended by public and private stakeholders involved in the various roles of the value chain<sup>5</sup>.

In the discussions both public and private organisations stressed that the traffic information value chain is organised in different ways in the various Member States, regions and cities, and investments have been made based on cooperation. Any new legislation should respect these existing arrangements by allowing for flexibility in the deployment of services. The workshop considered that any Commission intervention should not disrupt the existing market. The industry was concerned that if the Commission demands availability and sharing of all data, price erosion might occur in the market and private stakeholders might even stop collecting useful data or providing some services. Public authorities were concerned that intervention by the Commission could potentially lead to extra costs.

Various people expressed the view that the Union legislation should provide a framework but that deployment should then be left to the Member States and services driven by the market.

There was broad consensus that quality is an important issue that needs to be tackled but further research and development was needed in this field.

Some participants argued that public authorities who create road and traffic regulations should be responsible for their timely publication. Others argued that the ITS industry already found (technological) solutions to circumvent the lack of data and that public authorities should therefore not be forced to invest in publication of the regulations.

### **2.4. Meetings with Member State experts**

A first draft of the specifications for real time traffic information was discussed in a series of meetings from 15 April 2013 to 10 July 2014 with technical experts nominated by Member

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<sup>4</sup> Workshop materials are available at:  
[http://ec.europa.eu/transport/themes/its/events/2013\\_06\\_27\\_workshop\\_rtti\\_en.htm](http://ec.europa.eu/transport/themes/its/events/2013_06_27_workshop_rtti_en.htm).

<sup>5</sup> See TISA definition of the traffic information value chain  
<http://www.tisa.org/assets/Uploads/Public/EO12013TISADefinition-ITS-value-chain20121018.pdf>.

States, plus EEA countries and Switzerland<sup>6</sup>. The experts sent by the European Parliament were also invited to participate in these meetings. The discussions confirmed that:

The comprehensive trans-European road network with the addition of other motorways that are not part of this network would be the appropriate geographical scope for the specifications but Member States should be able, where they consider appropriate, to identify additional road sections, notably in interurban / urban areas, where the specifications could also be applied.

The data scope should be kept flexible, depending on data availability and purpose of use. The specifications should remain functional and respect technological neutrality.

As mostly used by road operators, DATEX II would be an appropriate European standard for data sharing, acknowledging that for static road data the INSPIRE Directive and its implementing acts should be considered.

Although the quality of real-time traffic information was of significant importance, this was considered as a topic to be further investigated.

A flexible and cost-efficient model for conformity assessment for instance based on self-declaration and contributing to the benchmarking of Member States' practices could be an option for some Member States.

A transition period of two years following entry into force of the Delegated Regulation would be justified in order to ensure that any processes and systems already implemented would meet the requirements of the specifications.

## **2.5. Other consultations**

The members of the European ITS Advisory Group<sup>7</sup>, composed of high-level representatives from ITS service providers, associations of users, transport and facilities operators, manufacturing industry, social partners, professional associations, local authorities and other relevant fora, were consulted on the draft specifications in writing in September 2014.

An online public consultation on the provision of real-time traffic information services ran for 12 weeks between December 2013 and March 2014. In total 101 people and organisations completed the questionnaire, with a good mix of all stakeholders in the traffic information value chain. A summary of the findings of the public online consultation are available online<sup>8</sup>.

The Commission's approach to foster the provision of (high quality) real-time traffic information services across Europe was presented to the TRAN committee of the European Parliament during a meeting in October 2014.

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<sup>6</sup> Agenda and summary records of each meeting are available at: <http://ec.europa.eu/transparency/regexpert/index.cfm?do=groupDetail.groupDetail&groupID=1941>.

<sup>7</sup> Composition and task of the group at: [http://ec.europa.eu/transport/themes/its/road/action\\_plan/its\\_advisory\\_group\\_en.htm](http://ec.europa.eu/transport/themes/its/road/action_plan/its_advisory_group_en.htm).

<sup>8</sup> Online questionnaire and results at: [http://ec.europa.eu/transport/themes/its/consultations/2014-03-14-rtti\\_en.htm](http://ec.europa.eu/transport/themes/its/consultations/2014-03-14-rtti_en.htm).

## 2.6. Cost-benefit analysis

### 2.6.1. Costs estimates

A preliminary cost-benefit analysis was carried out for the Commission to quantify the costs and benefits of possible measures. Overall, the analysis indicated a positive cost/benefit ratio of the Commission taking action in the field of real-time traffic information (as opposed to no action) in a 10-year study window (2015-2025).

Since this Delegated Regulation does not require that Member States collect any more data than they are already collecting or they intend to collect in the future, the additional costs of the actions in the specifications remain moderate. The Delegated Regulation affects only those Member States that are already collecting information or intend to collect it in the future.

Those Member States and road operators that do not yet provide dynamic road status data and traffic data in the widely used machine-readable DATEX II format will have to do so. The study (under the assumptions of introducing a framework with non-mandatory data content and including specifications for certain data types) estimated the total costs of the following items for whole UE for the period of 2015-2025:

- Messaging middleware costs at approx. €1,1 million;
- DATEX II publisher costs at approx. €3,3 million;
- DATEX II node modification and provision of data costs at approx. €3,3 million;
- Implementation and operation of a national roadworks database costs at €58,2 - 64,4 million while the maintenance of the database would also have running administrative costs.

There will be costs of sharing information between all players (except for those who distribute data for a fee to cover the costs), administrative costs of setting up a discovery service and a national access point. The annual costs of a point of access in a Member State with web links and metadata could amount to €31.000. With web links only the costs could go down to €18.000 a year, whereas going for a point of access with web links, metadata and data could cost €151.000 a year.<sup>9</sup> The Delegated Regulation leaves Member States free, if they wish so, to cooperate with each other, and with stakeholders (already managing / providing an access to data), to contain the costs associated with the national access point. Moreover, those Member States whom have already or are setting up an access point for previously adopted delegated acts could build upon those existing solutions.

Assuming an approach similar to the one set up for the provision of road safety related traffic information services, initial costs of a Member State for shaping the supervision necessary for assessment of compliance could be of approx. €40.000, whereas costs for self-declaration authentication and random checks could be of €100.000 and up till €200.000 for a close oversight through monitoring and labelling<sup>10</sup>.

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<sup>9</sup> Study by the Dutch Ministry of Infrastructure and Environment, <http://www.connekt.nl/uploads/2014/01/rapport-onderzoek-en-advies-invulling-toezicht-op-naleving-its-acties-c-en-e.pdf>.

<sup>10</sup> These are only indicative costs to be refined further following implementation.

It is worth noting that the costs are likely to be weighted up front whereas the benefits accrue and grow over time.

### 2.6.2. *Benefits estimates*

Overall and under the same assumptions and study window as above, aggregated net benefits over the period of 2015-2025 for the public and private stakeholders with non-mandatory minimum data content, including data specifications for particular data types (e.g. traffic management messages related to incidents, with information presented via variable message signs and data made available via DATEX II) could be €25 million by 2025. If the data content is extended (e.g. to road data updates and speed limit changes), the net benefits could become €246 million. These benefits would be aggregated benefits for the road operators, traffic managers, service providers, road authorities, road drivers and the society as a whole over the 10-year period.

The benefits include notably the accelerated provision of information about traffic management measures which are implemented in case of incidents and location along the road network of other real time traffic data (e.g. location of queue), as well as more efficient routing for equipped drivers including areas where there is no variable message sign, and reduced costs for digital map providers and ITS service providers due to more / easier access to data.

Moreover, when road operators share their data, they receive access to a considerable amount of additional data that can help them optimise their infrastructure use and maintenance (and save money). For instance, the benefits of including traffic management measures which are implemented in case of incidents in the scope of the data necessary for the provision of real-time traffic information services could possibly amount to €167,8 million whereas also including roadworks information would lead to benefits in the range of €182,6 – 219,1 million.

The benefits in terms of efficiency gains accrue both to the public sector and to the private sector including the general public and private companies. However, the benefits to business are particularly difficult to quantify because either the costs of poor data and poor access are usually hidden within organisations or the benefits will accrue in terms of new services. The distribution of the benefits between public and private sector bodies is therefore difficult to establish.

The ability to access data in a common machine readable format through single point of access and discover existing data sets will enable a faster access to their partners' data and easier use of the data, with subsequent benefits in terms of data quality and accuracy enhancement. This would also reduce the barriers of entry in markets where “local knowledge” is a necessary condition for entry, which thereof contributes to the single market (though this constitutes a wider benefit rather than an efficiency saving). The optimisation of the business exchanges between partners and the reduction in duplications of data lead to an increase in dissemination, better re-use and finally time and cost-saving for everyone<sup>11</sup>.

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<sup>11</sup> These conclusions stem from the experience gained through the implementation of the INSPIRE Directive which has also opened up access to spatial data via interoperable network services such as the discovery service, to the business community.

### **3. LEGAL ELEMENTS OF THE DELEGATED ACT**

#### **3.1. Legal basis**

This delegated act supplements Directive 2010/40/EU in compliance with its Article 7.

A Regulation seems the most appropriate legal instrument for this delegated act as it does not call for national transposition measures therefore ensuring a higher degree of harmonisation and control by the Commission, as well as a quicker entry into force.

#### **3.2. Subsidiarity and proportionality**

According to the principle of subsidiarity (Article 5(3) of the Treaty on the European Union), action at the Union level should be taken only when the aims envisaged cannot be achieved satisfactorily by Member States alone and can therefore, by reason of the scale or effects of the proposed action, be better achieved by the Union .

Action at the Union level is needed in order to guarantee the interoperability and continuity of the real-time traffic information services throughout Europe, including across borders, which cannot be satisfactorily achieved by individual Member States. Action at the Union level would trigger benefits of scale and can foster European competitiveness and growth.

The financial and administrative costs for national authorities are expected to be minor and proportionate to the objectives to be achieved. A substantial part of the implementation is left to national decisions.

#### **3.3. Contents of the legal act**

Article 1 defines the subject matter and scope of the Delegated Regulation that establishes the specifications necessary to ensure the accessibility, exchange, re-use and update of road and traffic data for the provision of EU-wide real-time traffic information services on the comprehensive trans-European road network, as well as on motorways not included in this network and on priority zones identified by national authorities where they consider this to be relevant.

Article 2 provides definitions that apply in addition to those provided in Directive 2010/40/EU.

Article 3 requires the Member States to set up a national access point for access to road and traffic data. The national access points will also provide appropriate discovery services (search and browse functionalities).

Article 4 concerns the provision, accessibility, exchange and re-use of static road data. The data will be provided in a standardised format when such a format is available.

Article 5 concerns the provision, accessibility, exchange and re-use of dynamic road status data. The data will be provided in a standardised format (DATEX II and subsequently upgraded versions).



Article 6 concerns the provision, accessibility, exchange and re-use of traffic data. The data will be provided in a standardised format (DATEX II and subsequently upgraded versions).

Article 7 requires that regular updates (including correction of inaccuracies) of static road data, dynamic road status data and traffic data are made.

Article 8 contains provisions on the updates of static road data.

Article 9 contains provisions on the updates of dynamic road status data.

Article 10 contains provisions on the updates of traffic data.

Article 11 provides the approach towards assessment of compliance with the requirements of this Delegated Regulation. Member States may require evidence-based declarations of compliance from the relevant stakeholders and should conduct random checks to control the correctness of these declarations.

Article 12 sets the requirements for regular reporting by the Member States, first after 24 and 36 months from the entry into force of the Delegated Regulation and every two years thereafter.

Article 13 provides that this Delegated Regulation should enter into force on the twentieth day following that of its publication in the Official Journal. It should apply from 24 months following the date of its entry into force to the accessibility, exchange, re-use and update of road and traffic data for the provision of EU-wide real-time traffic information services already deployed on the date of application of the Regulation or that would be deployed after the date of application.

The Annex gives a non-exhaustive and non-exclusive list of static road data, dynamic road status data and traffic data categories.

#### **4. BUDGETARY IMPLICATION**

There are no budgetary implications for the EU budget.

**COMMISSION DELEGATED REGULATION (EU) No .../..**

**of 18.12.2014**

**supplementing Directive 2010/40/EU of the European Parliament and of the Council  
with regard to the provision of EU-wide real-time traffic information services**

(Text with EEA relevance)

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Directive 2010/40/EU of the European Parliament and of the Council of 7 July 2010 on the framework for the deployment of Intelligent Transport Systems in the field of road transport and for interfaces with other modes of transport<sup>12</sup>, and in particular Article 7 thereof,

Whereas:

- (1) Article 3(b) of Directive 2010/40/EU sets as a priority action the provision of EU-wide real-time traffic information services for the development and use of specifications and standards.
- (2) Article 6(1) of Directive 2010/40/EU requires the Commission to adopt specifications necessary to ensure compatibility, interoperability and continuity for the deployment and operational use of Intelligent Transport Systems (ITS) for the provision of EU-wide real-time traffic information services. This Regulation seeks to improve the accessibility, exchange, re-use and update of the road and traffic data required for the provision of high quality and continuous real-time traffic information services across the Union.
- (3) Article 5 of Directive 2010/40/EU provides that specifications adopted in accordance with Article 6 of this Directive should apply to the ITS applications and services when these are deployed without prejudice to the right of each Member State to decide on the deployment of such applications and services on its territory.
- (4) These specifications should apply to the provision of all real-time traffic information services without prejudice to particular specifications adopted in other acts under

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<sup>12</sup> OJ L 207, 6.8.2010, p. 1

Directive 2010/40/EU, notably Commission Delegated Regulation (EU) No 885/2013<sup>13</sup> and Commission Delegated Regulation (EU) No 886/2013<sup>14</sup>.

- (5) A market for the provision of real-time traffic information services already exists in the Union and it is in the interest of both the users and customers as well as the providers of those services that the right framework conditions are created for this market in order to be preserved and further developed in innovative ways. As regards the provision of real-time traffic information services, Directive 2003/98/EC of the European Parliament and of the Council<sup>15</sup> sets out minimum rules for the re-use of public sector information throughout the Union. With respect to the re-use of data held by road authorities and public road operators, the rules established by this Regulation, in particular the ones concerning data updates, are applicable without prejudice to the rules established by the Directive 2003/98/EC.
- (6) Directive 2007/2/EC of the European Parliament and of the Council<sup>16</sup> creates a European Union spatial data infrastructure in order to enable the sharing of and public access to spatial information (including the spatial data theme "transport networks") across the Union with a view to supporting Union environmental policies, and policies or activities which may have an impact on the environment. The specifications set out in this Regulation should be compatible with the specifications established by Directive 2007/2/EC and its implementing acts, in particular Regulation 1089/2010. The extension of the application of these specifications to all static road data types might also promote further harmonisation in this field.
- (7) Regulation (EU) No 1315/2013 of the European Parliament and of the Council<sup>17</sup> defines the road transport infrastructure that is part of the core and the comprehensive trans-European transport network. This Regulation should apply to the comprehensive trans-European road network as defined in Regulation (EU) No 1315/2013 as this network is where most of international road transport takes place. As most motorways are already included in this network, other motorways should also be covered by this Regulation for the sake of consistency for the road users. Recurring traffic externalities and other traffic management difficulties, such as congestion, air pollution or noise, are not limited to the trans-European road network or to motorways. In fact a significant share of recurring traffic congestion occurs in urban areas. Member States should therefore be allowed to apply these specifications to selected roads, beyond the trans-European road network and the motorway network, identified by them as priority zones. Given the continuously changing nature of traffic patterns, Member States should be allowed to update those priority zones.

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<sup>13</sup> Commission Delegated Regulation (EU) No 885/2013 of 15 May 2013 supplementing ITS Directive 2010/40/EU of the European Parliament and of the Council with regard to the provision of information services for safe and secure parking places for trucks and commercial vehicles (OJ L 247, 18.9.2013, p. 1).

<sup>14</sup> Commission Delegated Regulation (EU) No 886/2013 of 15 May 2013 supplementing Directive 2010/40/EU of the European Parliament and of the Council with regard to data and procedures for the provision, where possible, of road safety-related minimum universal traffic information free of charge to users (OJ L 247, 18.9.2013, p. 6).

<sup>15</sup> Directive 2003/98/EC of the European Parliament and of the Council of 17 November 2003 on the re-use of public sector information (OJ L 345, 31.12.2003, p. 90).

<sup>16</sup> 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) (OJ L 108, 25.4.2007, p. 1).

<sup>17</sup> Regulation (EU) No 1315/2013 of the European Parliament and of the Council of 11 December 2013 on Union guidelines for the development of the trans-European transport network and repealing Decision No 661/2010/EU (OJ L 348, 20.12.2013, p. 1).

- (8) Static road data, dynamic road status data and traffic data all have different characteristics and each should comply with appropriate requirements. Given the diversity of data sources ranging from infrastructure based sensors to vehicles acting as sensors, it is important that the specifications should apply to the relevant data categories regardless of the source of the data and technology used to create or update the data.
- (9) In case the personal data would happen to be processed, it should be, where possible, irreversibly anonymised. Moreover, it should be processed in accordance with the Union law, as set out, in particular, in Directive 95/46/EC of the European Parliament and of the Council<sup>18</sup> and in Directive 2002/58/EC of the European Parliament and of the Council<sup>19</sup>, and with the national legislations thereto. And it should comply with the principles of purpose limitation and data minimisation.
- (10) If the information service is to rely on the collection of data, including geo-location, from the end users themselves or through cooperative systems in the future, then end users should be clearly informed about the collection of such data, the arrangements for data collection and potential tracking, and the periods for which such data are kept. Appropriate technical measures should be deployed by public and private data collectors such as road operators, service providers and automotive industries to ensure anonymity of the data received from end users or their vehicles.
- (11) In order to develop a harmonised and seamless provision of real-time traffic information services, Member States should rely on existing technical solutions and standards, provided by the European and international standardisation organisations, such as DATEX II (CEN/TS 16157 and subsequently upgraded versions) and ISO standards. For data types for which no standardised format is available, Member States and stakeholders should be encouraged to co-operate in order to reach an agreement on data definition, data format and metadata.
- (12) Several dynamic location referencing methods already exist in the Union and are being applied in Member States. The use of different location referencing methods should continue to be allowed. Member States and stakeholders, however, should be encouraged to co-operate with a view to reaching an agreement on allowed methods for location referencing, if necessary through European standardisation bodies.
- (13) The accessibility and regular update of static road data by road authorities and road operators are essential for enabling the production of up-to-date and accurate digital maps that are a key asset for reliable ITS applications. The digital map producers should be encouraged to integrate static road data updates into their existing map and map update services in a timely manner. In order to comply with public policies such as road safety, public authorities should be able to request service providers and digital map producers to correct inaccuracies in their data.
- (14) The accessibility of accurate and up-to-date static road data, dynamic road status data and traffic data are essential for the provision of real-time traffic information services

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<sup>18</sup> Directive 95/46/EC of the European Parliament and of the Council of 24 October 1995 on the protection of individuals with regard to the processing of personal data and on the free movement of such data (OJ L 281, 23.11.1995, p. 31).

<sup>19</sup> Directive 2002/58/EC of the European Parliament and of the Council of 12 July 2002 concerning the processing of personal data and the protection of privacy in the electronic communications sector (OJ L 201, 31.7.2002, p. 37).

across the Union. The relevant data are collected and stored by road authorities, road operators and real-time traffic information service providers. In order to facilitate the easy exchange and re-use of these data for the provision of such services, road authorities, road operators and real-time traffic information service providers should make the data, corresponding metadata and information on the quality of the data accessible to other road authorities, road operators, real-time traffic information service providers and digital map producers through a national or common access point. The access point can take the form of a repository, registry, web portal or similar depending on the type of data. Member States should regroup the existing public and private access points in a single point enabling access to all the types of relevant available data that fall within the scope of these specifications. Member States should be allowed to co-operate with one another to set up a common access point covering the available data of the participating Member States. Member States should be free to decide to use the access points established under other delegated acts adopted under Directive 2010/40/EU as the national access points for the data falling within the scope of this Regulation.

- (15) In order to allow road authorities, road operators, service providers and digital map producers to successfully and cost-efficiently discover and use the relevant data, it is necessary to properly describe the content and structure of this data using appropriate metadata.
- (16) These specifications should not oblige road authorities or road operators and service providers to start collecting any data that they are not already collecting or to digitise any data that is not already available in machine readable format. The specific requirements regarding the updates of static road data, dynamic road status data and traffic data should only apply to the data that is actually collected and available in machine readable format. At the same time Member States should be encouraged to look for cost-effective ways that are appropriate for their needs to digitise existing static road data.
- (17) These specifications should not oblige road authorities or road operators to define or implement traffic circulation plans and temporary traffic management measures. They should not oblige service providers to share any of their data with other service providers. Service providers should be free to conclude commercial agreements between themselves for the re-use of relevant data.
- (18) Member States and ITS stakeholders should be encouraged to co-operate to agree on common definitions of data quality with a view to use common data quality indicators throughout the traffic data value chain, such as the completeness, accuracy and up-to-dateness of the data, the acquisition method and location referencing method used, as well as quality checks applied. They should also be encouraged to work further to establish associated methods of quality measurement and monitoring of the different data types. Member States should be encouraged to share with each other their knowledge, experience and best practices in this field.
- (19) It is acknowledged that the use of road and traffic data and real-time traffic information services generated by private service providers can represent a cost-effective way for public authorities to improve traffic management as well as infrastructure management and maintenance. However, the specific terms and conditions applicable for the use or re-use of such data and associated services should

be left to the parties concerned without prejudice to the provisions of Directive 2003/98/EC.

- (20) Private service providers may use static road data, dynamic road status data and traffic data collected by road authorities and road operators as input data for their own real-time traffic information services. The specific terms and conditions applicable for such re-use of these data should be left to the parties concerned without prejudice to the provisions of Directive 2003/98/EC.
- (21) In order to make sure that these specifications are correctly implemented, Member States should assess the compliance with the requirements concerning the accessibility, exchange, re-use and update of the road and traffic data by the road authorities, road operators, digital map producers and service providers. To that end the competent authorities should be free to rely on evidence-based declarations of compliance submitted by road authorities, road operators, digital map producers and service providers.
- (22) These specifications do not limit the freedom of expression of radio broadcasters insofar as they do not oblige them to take any specific position with respect to the information to be disseminated, and leave sufficient room for the Member States to take account of their national constitutional traditions as regards the freedom of expression of radio broadcasters.
- (23) The European Data Protection Supervisor was consulted in accordance with Article 28(2) of Regulation (EC) No 45/2001 of the European Parliament and of the Council<sup>20</sup> and delivered an opinion on [...] <sup>21</sup>,

HAS ADOPTED THIS REGULATION:

### *Article 1*

#### **Subject matter and scope**

This Regulation establishes the specifications necessary in order to ensure the accessibility, exchange, re-use and update of road and traffic data by road authorities, road operators and service providers for the provision of EU-wide real-time traffic information services.

It shall apply to the comprehensive trans-European road network, as well as motorways not included in this network, and priority zones identified by national authorities where they consider this to be relevant.

It shall apply in accordance with Article 5 of Directive 2010/40/EU.

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<sup>20</sup> Regulation (EC) No 45/2001 of the European Parliament and of the Council of 18 December 2000 on the protection of individuals with regard to the processing of personal data by the Community institutions and bodies and on the free movement of such data (OJ L 8, 12.1.2001, p. 1).

<sup>21</sup> [Please insert reference.]

## Article 2

### Definitions

For the purposes of this Regulation, the definitions in Article 4 of Directive 2010/40/EU shall apply.

The following definitions shall also apply:

- (1) 'core trans-European road network' means the road transport infrastructure that is part of the core network as defined in Regulation (EU) No 1315/2013;
- (2) 'comprehensive trans-European road network' means the road transport infrastructure that is part of the comprehensive network as defined in Regulation (EU) No 1315/2013 of the European Parliament and of the Council;
- (3) 'motorway' means a road which is designated as such by the Member State in which it is located;
- (4) 'priority zones' means road sections identified by national authorities where they consider this to be relevant, in particular in urban areas, that are not part of the comprehensive trans-European road network and are not motorways, based on the levels of recurring traffic congestion or other traffic management considerations;
- (5) 'accessibility of the data' means a possibility to request and obtain the data at any time in a machine readable format;
- (6) 'static road data' means road data that do not change often or on a regular basis, as listed in point 1 of the Annex;
- (7) 'dynamic road status data' means road data that change often or on a regular basis and describe the status of the road, as listed in point 2 of the Annex;
- (8) 'traffic data' means data on road traffic characteristics, as listed in point 3 of the Annex;
- (9) 'data update' means any modification of the existing data, including its deletion or insertion of new or additional elements;
- (10) 'real-time traffic information' means information derived from any static road data, dynamic road status data, traffic data, or the combination thereof, provided by any road authorities, road operators or service providers, for users and end users, through any communication means;
- (11) 'real-time traffic information service' means an ITS service that provides users, and end users, immediately with real-time traffic information;
- (12) 'road authority' means any public authority responsible for the planning, control or management of roads falling within its territorial competence;

- (13) 'road operator' means any public or private entity that is responsible for the maintenance and management of the road;
- (14) 'service provider' means any public or private provider of a real-time traffic information service, excluding a mere conveyer of information, to users and end users;
- (15) 'user' means any road authorities, road operators, service providers, and digital map producers;
- (16) 'end user' means any road user, a natural or legal person, who has access to real-time traffic information services;
- (17) 'access point' means a digital interface where the static road data, dynamic road status data and traffic data, together with the corresponding metadata are made accessible for re-use to users, or where the sources and metadata of these data are made accessible for re-use to users;
- (18) 'metadata' means a structured description of the contents of the data facilitating the discovery and use of this data;
- (19) 'discovery services' means services allowing for the search of the requested data using the contents of the corresponding metadata and displaying such contents;
- (20) 'temporary traffic management measures' means temporary measures intended to solve a given traffic disturbance and designed for example to control and guide traffic flows;
- (21) 'traffic circulation plans' means permanent traffic management measures that are designed by traffic managers to control and guide traffic flows in response to permanent or recurring traffic disturbances.

### *Article 3*

#### **National access points**

1. Each Member State shall set up a national access point. The national access point shall constitute a single point of access for users to the road and traffic data, including data updates, provided by the road authorities, road operators and service providers and concerning the territory of a given Member State.
2. Existing national access points that have been set up to comply with the requirements arising from other delegated acts adopted under Directive 2010/40/EU may be used, if deemed appropriate by the Member States, as national access points.
3. National access points shall provide appropriate discovery services to users.
4. Road authorities and road operators, in cooperation with digital map producers and service providers, shall ensure that they provide the appropriate metadata in order to



allow users to discover and use the datasets to which access is provided through the national access points.

5. Two or more Member States may set up a common access point.

#### *Article 4*

##### **Accessibility, exchange and re-use of static road data**

1. For the purpose of facilitating the provision of compatible, interoperable, and continuous real-time traffic information services across the Union, road authorities and road operators shall provide the static road data they collect and update pursuant to Article 8 in a standardised format, if available, or in any other machine readable format.
2. The data referred to in paragraph 1 and the corresponding metadata including information on the quality thereof shall be accessible for exchange and re-use by any digital map producer or service provider within the Union:
  - (a) on a non-discriminatory basis;
  - (b) within a timeframe that ensures the timely provision of the real-time traffic information service;
  - (c) through the national or common access point referred to in Article 3;
  - (d) Road authorities, road operators, digital map producers and service providers using the static road data referred to in paragraph 1 shall collaborate in order to ensure that any inaccuracies related to static road data are signalled without delay to the road authorities and road operators from which the data originates.
3. When service providers use static road data referred to in paragraph 1 provided by road authorities and road operators, they shall take into account, as far as possible, any traffic circulation plans developed by the competent authorities.

#### *Article 5*

##### **Accessibility, exchange and re-use of dynamic road status data**

1. For the purpose of facilitating the provision of compatible, interoperable, and continuous real-time traffic information services across the Union, road authorities and road operators shall provide the dynamic road status data they collect and update pursuant to Article 9 in DATEX II (CEN/TS 16157 and subsequently upgraded versions) format or any machine-readable format fully compatible and interoperable with DATEX II.

2. The data referred to in paragraph 1 and the corresponding metadata including information on the quality thereof shall be accessible for exchange and re-use by any service provider within the Union:
  - (a) on a non-discriminatory basis;
  - (b) within a timeframe that ensures the timely provision of the real-time traffic information service;
  - (c) through the national or common access point referred to in Article 3.
3. When service providers use dynamic road status data referred to in paragraph 1 provided by road authorities and road operators, they shall take into account, as far as possible, any temporary traffic management measures taken by the competent authorities.

## *Article 6*

### **Accessibility, exchange and re-use of traffic data**

1. For the purpose of facilitating the provision of compatible, interoperable, and continuous real-time traffic information services across the Union, road authorities and road operators shall provide the traffic data they collect and update pursuant to Article 10 in DATEX II (CEN/TS 16157 and subsequently upgraded versions) format or any machine-readable format fully compatible and interoperable with DATEX II.
2. The data referred to in paragraph 1 and the corresponding metadata including information on the quality thereof shall be accessible for exchange and re-use by any service provider within the Union:
  - (a) on a non-discriminatory basis;
  - (b) within a timeframe that ensures the timely provision of the real-time traffic information service;
  - (c) through the national or common access point referred to in Article 3.
3. For the purpose of optimising traffic management, road authorities and road operators may request service providers to provide the traffic data they collect and update pursuant to Article 10. Such data shall be provided in DATEX II (CEN/TS 16157 and subsequently upgraded versions) format or any machine-readable format fully compatible and interoperable with DATEX II, through the access point referred to in Article 3 and accompanied by the corresponding metadata including information on the quality thereof.

## *Article 7*

### **Data updates**

Real-time traffic information services shall be based on updates of static road data, dynamic road status data and traffic data, or any combination thereof. All data shall be regularly updated by the road authorities, road operators, service providers in accordance with the requirements set out in Articles 8 to 10. Road authorities, road operators, service providers shall in a timely manner correct any inaccuracies detected by them in their data or signalled to them by any user and end users.

## *Article 8*

### **Updating static road data**

1. The updates of the static road data shall concern as a minimum the following parameters:
  - (a) the type of static road data as set out in point 1 of the Annex concerned by the update;
  - (b) the location of the condition concerned by the update;
  - (c) the type of update (modification, insertion or deletion);
  - (d) the description of the update;
  - (e) the date on which the data has been updated;
  - (f) the date and time when the change in a given condition has occurred or is planned to occur;
  - (g) the quality of the data update.

The location of the condition concerned by the update shall be determined using a standardised or any other generally accepted dynamic location referencing method that enables unambiguous decoding and interpretation of this location.

2. Road authorities and road operators shall ensure the timely update of static road data and, where known and possible, provide these updates to users in advance.
3. When digital map producers and service providers use static road data updates, they shall ensure that these updates are processed in a timely manner in order to make the information accessible to end users without delay.

## *Article 9*

### **Updating dynamic road status data**

1. The updates of the dynamic road status data shall concern as a minimum the following parameters:
  - (a) the type of dynamic road status data as set out in point 2 of the Annex concerned by the update and, where appropriate, a short description of it;
  - (b) the location of the event or condition concerned by the update;
  - (c) the period of occurrence of the event or condition concerned by the update;
  - (d) the quality of the data update.

The location of the event or condition concerned by the update shall be determined using a standardised or any other generally accepted dynamic location referencing method that enables unambiguous decoding and interpretation of this location.

2. Road authorities and road operators shall ensure the timely update of dynamic road status data and, where known and possible, provide these updates in advance.
3. The real-time traffic information shall be modified accordingly or withdrawn as soon as possible after the status of the dynamic road status data concerned has changed.
4. When service providers use dynamic road status data updates, they shall ensure that these are processed in a timely manner in order to make the information accessible to end users without delay.

## *Article 10*

### **Updating traffic data**

1. The updates of the traffic data shall include as a minimum the following parameters:
  - (a) the type of traffic data as set out in point 3 of the Annex concerned by the update and, where appropriate, a short description of it;
  - (b) the location of the event or condition concerned by the update;
  - (c) the quality of the data update.

The location of the event or condition concerned by the update shall be determined using a standardised or any other generally accepted dynamic location referencing method that enables unambiguous decoding and interpretation of this location.

2. The real-time traffic information shall be modified accordingly or withdrawn by road operators and service providers as soon as possible after the status of traffic data concerned has changed.
3. When service providers use traffic data updates, they shall ensure that these are processed in a timely manner in order to make the information accessible to end users without delay.

### *Article 11*

#### **Assessment of compliance**

1. Member States shall assess whether the requirements set out in Articles 3 to 10 are complied with by the road authorities, road operators, digital map producers and service providers in accordance with paragraphs 2 to 3.
2. In order to proceed to the assessment, the competent authorities of Member States may request from the road authorities, road operators, digital map producers and service providers the following documents:
  - (a) a description of the road and traffic data, digital map or real-time traffic information services they provide as well as the information on the quality thereof and the conditions of re-use of these data;
  - (b) an evidence-based declaration of compliance with the requirements set out in Articles 3 to 10.
3. Member States shall randomly check the correctness of the declarations referred to in point b) of paragraph 2.

### *Article 12*

#### **Reporting**

1. At the latest by [*Publications Office: Please insert the date of entry into force + 24 months*], Member States shall provide the Commission with a report on the measures undertaken, if any, to set up a national access point and on the modalities of its functioning, and where relevant, the list of motorways not included in the comprehensive trans-European road network and identified priority zones.
2. At the latest by [*Publications Office: Please insert the date of entry into force + 36 months*] and every two calendar years thereafter, Member States shall provide the Commission with a report containing the following information:
  - (a) the progress made in terms of the accessibility, exchange and re-use of the road and traffic data types set out in the Annex;

- (b) the geographical scope and the road and traffic data content of real-time traffic information services and their quality, including the criteria used to define this quality and the means used to monitor it;
- (c) the results of the assessment of compliance referred to in Article 11 with the requirements set out in Articles 3 to 10;
- (d) where relevant, a description of changes to the national or common access point;
- (e) where relevant, a description of changes to the priority zones.

*Article 13*

**Entry into force and application**

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

It shall apply from [*Publications Office: Please insert the date of entry into force + 24 months*].

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

Done at Brussels, 18.12.2014

*For the Commission*  
*The President*  
*Jean-Claude JUNCKER*