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IWG on ITS

Terms and Definitions

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1. Scope

This document shall support the work of the UNECE IWG ITS. It is intended to be a reference book in a type of wiki format. This Document shall be used to collect all existing and upcoming technical terms that are used in the environment of Intelligent Transport Systems. The Document shall be a living document, growing over time to be a single source of truth in all terms and definitions within the harmonization of Intelligent Transport System.

The sources of the definitions are marked with small caps. It is the intention to review this document on a regular basis, compare the definitions with definitions from other documents and merge them to get an overall understanding and knowledgebase.

2. Definitions

2.1. Architecture¹

means the conceptual design that defines the structure, behavior and integration of a given system in its surrounding context;

2.2. C-ITS¹

cooperative intelligent transport systems or C-ITS means intelligent transport systems that enable ITS users to cooperate by exchanging secured and trusted messages ~~through the EU C-ITS security credential management system;~~

Alternative²:

Cooperative ITS (C-ITS) has the potential to further increase the benefits of ITS services and applications. C-ITS is a subset of the overall ITS that communicates and shares information between ITS Stations to give advice or take actions with the objective of improving safety, sustainability, efficiency and comfort beyond the scope of stand-alone ITS.

2.3. Compatibility¹

means the general ability of a device or system to work with another device or system without modification;

2.4. Continuity of services¹

means the ability to ensure seamless services on transport networks across ~~[contracting Parties and regional, economic integration organizations;]~~

2.5. Intelligent Transport Systems¹

or ITS means systems in which information and communication technologies are applied in the field of road transport, including infrastructure, vehicles and users, and in traffic management and mobility management, as well as for interfaces with other modes of transport;

2.6. Interface¹

means a facility between systems which provides the media through which they can connect and interact;

2.7. Interoperability¹

means the capacity of systems and the underlying business processes to exchange data and to share information and knowledge;

2.8. ITS application¹

means an operational instrument for the application of ITS;

2.9. ITS service provider¹

means any provider of an ITS service, whether public or private;

2.10. ITS service¹

means the provision of an ITS application through a well-defined organisational and operational framework with the aim of contributing to user safety, efficiency, comfort and/or to facilitate or support transport and travel operations;

- 2.11. ITS user¹
means any user of ITS applications or services including travelers, vulnerable road users, road transport infrastructure users and operators, fleet managers and operators of emergency services;
- 2.12. Nomadic [ITS] device¹
means a portable communication or information device ~~that can be brought inside the vehicle~~ to support the driving task and/or the transport operations;
- 2.13. Platform¹
means an on-board or off-board unit enabling the deployment, provision, exploitation and integration of ITS applications and services;
- 2.14. Road data¹
means data on road infrastructure characteristics, including fixed traffic signs or their regulatory safety attributes;
- 2.15. Specification¹
means a binding measure laying down provisions containing requirements, procedures or any other relevant rules;
- 2.16. Standard¹
means technical specification approved by a recognized standardization body for repeated or continuous application, with which compliance is not compulsory and which is made available to the public.
- 2.17. Traffic data¹
means historic and real-time data on road traffic characteristics;
- 2.18. Travel data¹
means basic data such as public transport timetables and tariffs, necessary to provide multi-modal travel information before and during the trip to facilitate travel planning, booking and adaptation;
- 2.19. Vulnerable road users¹
means non-motorized road users, such as pedestrians and cyclists[and Users of Micro mobility devices/Power Transporters,] as well as motor-cyclists and persons with disabilities or reduced mobility and orientation;

3. Sources

1. EU ITS Directive 2010/40/EU
2. CEN/TC 278/WG 16

4. To be defined or assigned

This paragraph lists ideas for new terms that are not defined in the definitions section of this document.

- List of ITS Services
- User data
- Supervision data (PTI, Market surveillance)
- Manufacturer Data
- Data classification
- Levels of remote driving