



CEN/TC 278

ITS standardization

Developing Standards for Smart and Sustainable Transport

September 2011



CEN/TC 278 Road transport and traffic telematics

After more than two decades of development, Road Transport and Traffic Telematics, now more commonly referred to as Intelligent Transport Systems (ITS) is playing an ever greater role in increasing the efficiency of public and private transport, improving the driving experience and, most importantly, making a major contribution to road safety and reduction of energy consumption and pollution. ITS already control traffic flow, collect road tolls, provide timely traffic and guidance information, safety advisory information, crash notifications, emergency vehicle prioritization, and 'infotainment'.

CEN/TC 278 *Road transport and traffic telematics* is responsible for the development of European standards and technical specifications in the domain of Intelligent Transport Systems (ITS). ITS standards help to ensure interoperability across countries and harmonise technical solutions. The standardization areas include Cooperative systems, Travel and Traffic Information, Route Guidance and Navigation, Public Transport, Emergency vehicles and Electronic Fee Collection.

CEN/TC 278 Factsheet

- Established in 1992
- 31 national members
- 62 active work items, 99 adopted standards
- 11 active working groups with over 300 nominated experts
- Co-operation between market players: industries, service providers, governments
- Well connected to European R&D

CEN/TC 278 Standardization Areas

CEN/TC 278 is responsible for managing the preparation of standards within the field of Intelligent Transport Systems. CEN/TC 278 has a number of Working Groups (WG) in which the actual work is carried out. Each of these groups is dedicated to a more specific aspect of the overall subject.

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| WG 1 | Electronic Fee Collection | WG 9 | Dedicated Short Range Communications |
| WG 2 | Freight, Logistics and Commercial Vehicle Operations | WG 10 | Human-Machine Interfacing |
| WG 3 | Public Transport | WG 12 | Automatic Vehicle and Equipment Id. |
| WG 4 | Traffic and Travel Information | WG 13 | Architecture and Terminology |
| WG 5 | Traffic Control Systems | WG 14 | Recovery of stolen vehicles |
| WG 7 | Geographic Data Files | WG 15 | eSafety / eCall |
| WG 8 | Road Traffic Data | WG 16 | Cooperative systems |

CEN/TC 278 Work Programme

Overview of CEN/TC 278 activities.

WG	Description	Publications	Active Work Items	Preliminary Work Items
1	Electronic Fee Collection	23	17	2
2	Freight, Logistics and Commercial Vehicle Operations	-	-	3
3	Public Transport	19	1	6
4	Traffic and Traveller Information	28	16	-
8	Road Traffic Data	3	1	-
9	DSRC	4	-	-
10	Human-Machine Interfacing	5	1	-
12	Automatic Vehicle and Equipment Identification	12	3	1
13	Architecture & Taxonomy	-	-	1
14	After Theft Systems for the Recovery of Stolen Vehicles	6	1	-
15	eSafety / eCall	4	2	1
16	Co-operative Systems	-	2	5
Totals		99	43	19

CEN/TC 278 Liaisons

■ ISO/TC 204

CEN/TC 278 operates in close cooperation with ISO/TC 204 *Intelligent Transport Systems*, which is responsible for developing international standards. Many standards are developed in joint working groups, so that expertise from around the globe can be used to set the best standards for Europe.

■ ETSI/TC ITS

The European Telecommunications Standards Institute (ETSI) produces globally-applicable standards for ICT. In the area of ITS, these standards are complementary to the ones produced by CEN/TC 278; together they form a coherent set of ITS standards for Europe. The coordination of the work programmes is handled by the ITS Coordination Group (ITS-CG).

CEN/TC 278 Current Developments

Below you will find an overview of current developments in CEN/TC 278.

■ *Liaison with FIA Europe*

CEN/TC 278 has established a liaison with FIA, the "Fédération Internationale de l'Automobile". FIA is a worldwide federation of Motoring and Touring Clubs, bringing together some 220 member clubs in five continents.

FIA's Pan-European representation ensures technical expertise in ITS road safety. This position enables FIA to be in a position to contribute to the development of standard, particularly those developed in the Working Group 15 "eSafety".

■ **Reactivation of CEN/TC 278/WG2**

In response to the ITS action plan CEN/TC 278/WG2 was reactivated to deal with new activities on the topic of Freight, Logistics and Commercial Vehicle Operations.

■ **New CEN/TC 278 website: www.itsstandards.eu**

The current CEN/TC 278 website will be replaced with a more user-friendly design and added functionalities. In addition to providing an overview of the work programme of CEN/TC 278, the new website will also function as a communication tool towards to the wider public.

■ **New project teams**

Three new project teams are being established. These project teams will be responsible for preparing draft European standards in the area of *eCall* and *Electronic Fee Collection*.

CEN/TC 278 Meetings

Each CEN member selects up to three delegates to represent the member state interest in the TC meetings. In the TC plenary meetings they decide on starting new work items, comment and vote on draft standards and vote on final standards. The following plenary meetings have been scheduled:

- 47th meeting, Netherlands, 29 September 2011
- 48th meeting, Germany, 22 March 2012
- 49th meeting, Norway, 20 September 2012

The actual development of standards takes place in the working groups of CEN/TC 278, all consisting of volunteer experts working together in a specific domain. The working groups report regularly to the TC on the progress made.

CEN/TC 278 and European Legislation

Intelligent Transport Systems (ITS) can significantly contribute to a cleaner, safer and more efficient transport system. Consequently, ITS have become the focus of a number of policy and legislative initiatives in Europe. The European Commission has laid down the legal framework in order to accelerate the deployment of these innovative transport technologies across Europe. Furthermore, the European Commission has requested the European Standards Organizations to develop and adopt European standards in support of this legal framework. Not surprisingly there is considerable activity in this area by the standards organizations CEN, CENELEC and ETSI. The following documents are relevant for the standardization work in CEN/TC 278:

- **Directive 2004/52/EC** (EFC directive) on the interoperability of electronic road toll systems in the Community
- **Directive 2010/40/EU** (ITS directive) on the framework for the deployment of Intelligent Transport Systems in the field of road transport and for interfaces with other modes of transport

- *Commission Decision 2009/750/EC* on the definition of the European Electronic Toll Service and its technical elements
- *Mandate M/338* on Electronic Fee Collection in support of Interoperability of electronic road toll systems in the Community. There are currently 22 standards under development and 19 standards have been published in response to this mandate.
- *Mandate M/453* on Co-operative systems for Intelligent Transport in the field of information and communication technologies to support interoperability of cooperative systems for intelligent transport in the European Community
- *2010-2013 EC ICT standardization work programme*: promote the use of standards as a means to increase interoperability between services and applications. In response to this framework several standards are being developed, including in the area of *data harmonization* and *eCall*.
- The *ITS action plan* identifies priority areas where actions are necessary to lift the barriers hampering a wider and more coordinated deployment and use of ITS

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