

Contacts

If you are interested in joining the standardization work of TC ITS or should you have any other questions then do not hesitate to get in touch with:

Mr Søren HESS

ETSI TC ITS Chairman
hess@shess.dk

Mr Gérard SÉGARRA

Chairman ETSI TC ITS Working Group
Application Requirements and Services (WG1)
gerard.segarra@renault.com

Mr Knut EVENSEN

Chairman ETSI TC ITS Working Group
Architecture and Cross Layer (WG2)
knut.evensen@q-free.com

Dr Andreas FESTAG

Chairman ETSI TC ITS Working Group
Transport and Network (WG3)
andreas.festag@nw.neclab.eu

Mr Thomas WEBER

Chairman ETSI TC ITS Working Group
Media and Medium related (WG4)
Thomas_J.Weber@BNetzA.de

Mr Scott CADZOW

Chairman ETSI TC ITS Working Group
Security (WG5)
scott@cadzow.com

For further details on ETSI TC ITS please visit:

<http://www.etsi.org/ITS>

ETSI
650 Route des Lucioles
06921 Sophia Antipolis Cedex, France
info@etsi.org
www.etsi.org

Intelligent Transport Systems



www.etsi.org

What are Intelligent Transport Systems?

Intelligent Transport Systems (ITS) add information and communications technology to transport infrastructures and vehicles in an effort to improve their safety, reliability, efficiency and quality.



ITS services are also designed to optimize transportation times and fuel consumption thus providing greener and safer transportation. However, the deployment of Intelligent Transport Systems and the provision of corresponding services are not limited to the road transport sector only, but includes other domains such as railways, aviation and maritime as well.

ETSI, well known for producing standards for fixed telecom, mobile, radio, converged, broadcast and Internet technologies, supports the ITS domain with comprehensive standardization activities. Release 1 of a set of basic ITS standards has been published in early 2010. This will lead to the harmonized and standardized development of ITS related products and their deployment on the market, responding to market demands.

Who is involved in ITS standardization work?

The mission of ETSI's Technical Committee Intelligent Transport Systems (TC ITS) is the creation and maintenance of standards and specifications for the use of information and communications technologies in future transport systems. Most of the Technical Committee's ongoing standardization activities are focused on wireless communications for vehicle-to-vehicle and vehicle-to-roadside communications. The goal is to address the safety of life through the reduction of road fatalities and injuries (in Europe over 40 000 road fatalities per year and more than 1,25 million injuries), traffic efficiency for the transport systems with reduction of transport time and the related economic consequences, and to decrease polluting emissions such as CO₂. This is a global issue and ETSI is cooperating with standardization bodies worldwide in order to achieve global interoperability and harmonized deployment of Intelligent Transport Systems.

As a consequence, the work of TC ITS is supported by a large variety of companies who actively contribute to the standardization work. These include car makers like Daimler AG and Renault along with automotive supply industry representatives such as NEC, Hitachi and Renesas. Equally, there are silicon vendors like Freescale and Motorola, network operators including T-Mobile, Telecom Italia and Orange, research bodies like Eurecom, Fraunhofer and INRIA as well as test houses such as AT4Wireless.

Intensive links are maintained with the European Commission whose ITS related activities such as the eSafety and Intelligent Car initiatives aim to stimulate the deployment of Intelligent Transport Systems. In parallel, the results of ITS focussed research projects like COMeSafety, CVIS, Safespot, Coopers and PREDRIVE C2X as well as industry organizations such as the C2C CC provide very much appreciated input to the standardization work.

Due to the international nature of this work ETSI cooperates closely with other international standardization organizations such as ISO, CEN, IEEE, ARIB, TTA and IETF in order to achieve internationally deployed and harmonized standards on ITS, essential to achieve worldwide interoperability.

Current standardization activities

Standardization currently focuses on cooperative systems, electronic fee collection and interoperability of these technologies. Since the global dimension of that work has to be taken into account, great attention is given to the creation of commonly agreed standards for the network architecture, protocols and transmission formats. Having such a set of commonly agreed standards helps lead to a global harmonization of ITS services and applications. A key issue when working on such standards is the safeguarding of interoperability. Here, ETSI's Centre for Testing and Interoperability (CTI) provides the expertise on all aspects of interoperability.

ITS related standardization continues in 2010. The following list shows some key topics for which ETSI/TC ITS will develop standards and technical specifications during the year:

- Conformance test specifications for Co-operative Awareness Messages (CAM);
- Local Dynamic Map (LDM) Specifications;
- Conformance test specifications for Decentralized environmental Notification Messages (DNM);
- Specifications for OSI cross-layer communications;
- Classification and management of applications;
- Conformance test specifications for GeoNetworking;
- VHF/UHF ITS communications protocol;
- STDMA parameters and settings for cooperative ITS;
- Identity Management and Identity Protection in ITS.

