CEN/TC 278
Progress of C-ITS Standards
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C-ITS standardization mandate M/453

Standardisation mandate addressed to CEN, CENELEC and ETSI in the field of Information and Communication Technologies to support the interoperability of Co-operative systems for Intelligent Transport in the European Community.

Objective
The European Standardisation Organisations, ETSI, CEN, CENELEC, are invited to prepare a coherent set of standards, specification and guidelines to support European Community wide implementation and deployment of Co-operative ITS systems.
C-ITS are defined in ISO, CEN and ETSI

A co-operative Intelligent Transport System (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.
Execution of M/453 related activities (I)

CEN/ETSI agreement of split of work based on the ITS station layer model (Dec 2009).
Execution of M/453 related activities (II)

1. C-ITS scope at CEN
   - V2V (5.9 GHz) active safety
   - V2I/I2V (5.9 GHz) and V2I/I2V (3G/4G) active safety, traffic management, traffic control, traffic information, traffic guidance

2. CEN/TC278 and ISO/TC204 WG’s commit to fulfill all M/453 requirements
Execution of M/453 related activities (III)

3. Liaison with other SDOs: ETSI, IEEE, SAE, ITU, nat. SDO
   ▶ Standardization for C-ITS was already initiated prior the start of M/453
   ▶ CEN took account of the existing achievements worldwide and include these activities in the European standardization with the aim to achieve globally accepted technical standards

4. Harmonization of C-ITS standards according to the EU-U.S. Research Cooperation in Cooperative Systems
5. Stakeholder consultation and involvement

- potential support by ASECAP, CEDR, POLIS, ERTICO
- and by projects like EASYWAY, CVIS, COOPERS, INTERSAFE-2, CONTRAST, COSMO, Ko-FAS, Freilot

but currently the stakeholder contribution to CEN is not sufficiently active
### Status of CEN & ISO C-ITS standardisation

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<thead>
<tr>
<th>Category</th>
<th>Description</th>
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<tr>
<td>MAP, PDM, PVD, SPaT, SRM, SSM</td>
<td>Application management</td>
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<td>Traveler assistance V2I/I2I</td>
<td>Localized traffic info</td>
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<td>Traffic mgmt. V2I/I2I</td>
<td>Local Dynamic Maps</td>
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<td>Hazard warning V2I/I2I</td>
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<td>Definition &amp; terminology</td>
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<td>Secure and privacy preserving messaging</td>
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- TS release in 2012
- joint activities

**CEN/TC 278 ITS standardization**
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