

## Communications Working Group

The Communications WG includes all stakeholders in traffic and road issues that could be positively influenced by Vehicle-to-Vehicle (V2V) or Vehicle-to-Infrastructure (V2I) communication technologies. It aims to cover all such technologies and modes relevant to eSafety in order to develop recommendations for the EC and the Member States to enable the creation of harmonised systems for V2V and V2I communication. Such systems would enable stakeholders to develop business models based on common standards in a common market. The WG focuses on aspects such as spectrum issues, standardisation and international cooperation. A first set of recommendations has been drafted and will be included in the final report that will be delivered to the EC in late 2007.

### Objectives

The WG focuses on building consensus in the V2V/V2I community in Europe on the necessary standards and requirements for frequency spectrum. A harmonised solution can help to ensure success of an European eSafety system, since a minimum penetration in the vehicle market must be reached to increase overall road safety.

### Main Achievements and Challenges

#### Spectrum:

There are many services and technologies worldwide competing for a scarce resource: radio spectrum for wireless transmission of data, audio or TV services. Several initiatives are underway to define the needs and estimate the positive effects of wireless communication for eSafety applications. In 2007, a compatibility study and an impact assessment regarding safety-relevant ITS applications was released by CEPT and ECC working groups. This will lead to a CEPT mandate report to the EC and an ECC directive, both proposing a 30MHz band (to be extended to 50MHz if needed) in the 5.9GHz range for safety-relevant ITS applications.

#### Standards:

Several FP5 and FP6 research projects investigated V2X technology and co-developed the CALM standards (refer to ISO TC204 WG16). Although some stakeholders - mainly those solely interested in V2V communication - highlight that this package is too complex and expensive to implement in simple V2V systems, agreement has been reached that a subset of the CALM standards will also be viable.

### Future activities

- Final report, including a set of recommendations, to be presented to the eSafety Forum Plenary Meeting in September 2007 for approval. This report will be given to the EC at the end of 2007 for consideration.
- WG's recommendations, together with the CEPT mandate report and the ECC directive 101, expected to an EC Directive regarding spectrum, as well as recommendations regarding commercial aspects and standardisation within the Member States.

### Intended Stakeholders

- ITS infrastructure providers
- Car and commercial vehicle industries
- Suppliers
- Public sector (transport ministries, regulatory bodies)

The WG has been supported by the COMeSafety project and worked in close cooperation with the Car-to-Car Communication Consortium.

### Chair

Uwe Daniel, on behalf of Bosch GmbH

uwe.daniel@silicon-networks.com

