



THE FULLY NETWORKED CAR



Call for Abstracts

Workshop including Demonstrations on Information and Communication Technologies in Motor Vehicles

Geneva, Palexpo 5–7 March 2008

For the third year running, a major event focusing on information and communication technologies (ICT) in motor vehicles is being organized by ITU¹, ISO² and IEC³, working together as the World Standards Cooperation (WSC). Taking place at one of the world's leading automotive events, the Geneva International Motor Show, *The Fully Networked Car* will comprise a workshop with demonstrations and will take place between 5 and 7 March 2008.

This year's event will feature a keynote speech from Max Mosley, president of the FIA (Fédération Internationale de l'Automobile which is also the organizer of the Formula One World Championship).

As in previous years, the event will bring together key specialists in the field, from top decision-makers to engineers, designers, planners, government officials, regulators, standards experts and others.

ICT in vehicles represents a significant value-add for consumers in terms of safety, comfort and mobility. Stakeholders agree that standardization is key to the development of new technologies and that coordination between the traditionally remote vehicle manufacturing and ICT industries is crucial.

Presentations are sought that bring light to some of the complex and fascinating questions facing the industries. For example: What are the right business models in linking the automotive and telecoms sectors? What are the legal and policy constraints? How do we face the technical and engineering challenges? How do we make sure that the right standards are adopted to deal with the complexity of so many electronic components and to allow this market to develop its full potential? What about environmental aspects? These and many other issues will be discussed. The goals of the workshop are to address such questions, to establish a constructive dialogue among all the stakeholders, to reach a better understanding between the ICT and automotive sectors and to combine efforts and skills to create standards for the benefit of all. The event will bring interested parties together from around the world to promote innovation and ensure that in-car communication technology moves forward at a rapid pace.

¹ ITU: International Telecommunication Union (www.itu.int)

² ISO: International Organization for Standardization (www.iso.org)

³ IEC: International Electrotechnical Commission (www.iec.ch)

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The following are examples of topics that will be covered:

AREA 1 – COMMUNICATIONS, SPECTRUM AND STANDARDS

- WiMAX, Wi-Fi, CALM, DSRC, GSM...
- Software-defined radio
- Usage of spectrum (e.g. from transition of analog to digital TV, cognitive radio)
- Regulation

AREA 2 – ICT AND THE ENVIRONMENT

- Cars as environmental sensors
- Alternative route/transportation planning
- ICT-enabled energy efficiency
- Car-to-grid energy transfer

AREA 3 – NETWORKING APPLICATIONS AND ARCHITECTURE

- Car-to-car
- Car-to-roadside
- Car-to-grid communications
- Satellites
- Positioning and mapping
- Location-based services

AREA 4 – NOMADIC DEVICES (E.G. PHONES, MUSIC PLAYERS, NAVIGATION DEVICES)

- Interface standards
- Distributed computing and services standards
- Standards associated with human-machine interfaces

AREA 5 – VOICE AND AUDIOVISUAL SERVICES

- Challenges for hands-free implementation (built-in or installed after)
- In-vehicle communications, e.g. voice synthesis and voice recognition
- Wideband speech communication
- Mobile- and VoIP-network interaction
- Speech recognition for car-control functions

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AREA 6 – SAFETY (VEHICLE AND PASSENGER SAFETY; EMERGENCY SERVICES)

- Advanced crash avoidance, mitigation and post-crash applications
- Impact of regulation
- Development and deployment (test environment)

AREA 7 – SECURITY AND PRIVACY

- Secure communications
- Protection of digital assets and identity
- Risk analysis related to ITS deployment
- Certification

Call for abstracts

Authors wishing to present papers should submit a half-page abstract, including the title of the paper and the author's full name, short biography, address, telephone and e-mail, to tsbcar@itu.int by **Friday, 16 November 2007**.

Authors will be notified of the acceptance of their papers by **Friday, 14 December 2007**.

The accepted presentations shall be submitted no later than **Tuesday, 29 January 2008**.

Demonstration area

Authors who wish to underline the concepts presented in their papers have the possibility to showcase their work/product in a demonstration area throughout the duration of the workshop. If you plan to demonstrate, please submit your expression of interest by sending a half-page description of what you plan to demonstrate, including your requirements (surface area needed, power, internet access, table, chairs, others) by **Friday, 16 November 2007**. A stand building company of the Geneva Motor Show will be responsible for the detailed arrangements and for providing a quotation.

There is also the possibility to demonstrate without giving a presentation at the workshop.

Event sponsorship

For event sponsorship and exposure possibilities, please contact tsbcar@itu.int.

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For updated information, please see: www.itu.int/ITU-T/worksem/ict-auto/200803/index.html

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