



# Towards Recommendations

**A. Kung, C.Ruland**

**Co-chairs**

**Security Working Group**

**In-vehicle Communication, Telematics and Co-operative Systems**

**Workshop on Security and Privacy Issues**

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# [ Overview

- Recommendations to Whom?
- Remarks
- Recommendations to OEMs, Suppliers, etc.
- Recommendations to the EU Commission
  - » Legal Aspects
  - » Approval and Supervision of Q&A and Responsibilities
  - » Standardization and Coordination
  - » Research Support
- Conclusions

# [ Recommendations to Whom?

Originally: to the EU Commission

but

- Recommendations are needed for all stakeholders
- who are the stakeholders, which have to be addressed?
- who is responsible for planning, manufacturing, using, maintaining, scratching of safety relevant security components?
- Which proves have to be established to accept/reject disclaimers?



# [ Remarks

- All of the following recommendations are
- not discussed till now in the WG and not agreed by all members of the WG
  - intended to start the discussion
  - Is this working group the appropriate plenum to prepare recommendations?
  - Even the type of recommendations is under discussion

Besides the technical discussion the accurate analysis of the political issues between the stakeholders has to be evaluated



# [ Recommendations

- Work on following questions:
- Is it realistic, that the stakeholders agree on a Code of practice?
- Is it possible to use parts of existing standards of ISO 27000 serie and to map them onto the needs of Automotive Security?
- Prepare a security concept and infrastructure covering safety relevant security components under its responsibility, which can be certified and confirmed by a trusted authority
- Act proactive in security of eSafety!!!



# [ Recommendations to the EU Commission - Legal Aspects



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- Create awareness of existing laws
  - Data Privacy
  - Information Security
  - Warranty
  - Liability
- Harmonization of different national situations
- Needs deeper (international) analysis, if existing laws are sufficient
- Create an expert group



# [ Recommendations to the EU Commission (2) - Approval and Supervision of Q&A and Responsibilities

- Create a clear framework for all stakeholders, which regulates, for which a stakeholder is responsible to provide safety relevant security, how it is supervised and which are the consequences in the case of misbehaviour



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# [ Recommendations to the EU Commission (2) - Approval and Supervision of Q&A and Responsibilities



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- The framework should express that each stakeholder is responsible that no unauthorized modifications of safety relevant hardware and software and no misuse of data is possible, resp. that it has to prove that it has achieved enough effort and installed appropriate protection mechanisms



# [ Recommendations to the EU Commission - Standardization and Coordination



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- Standardization of interfaces for information exchange of safety relevant security information
- Coordinate the activities and aggregation of the results of the security WG with other eSafety WG 's, i.e. RTTI, Communication, research projects and other consortia



# [ Recommendations to the EU Commission - Research Support

- Identity management, data protection and privacy
- Information aggregation under different aspects (plausibility, robustness, etc.)
- Secure In-Car Communication Architecture
- Secure integration and use of nomadic devices
- Reduction of organizational costs
- Architectures, Methodologies, Testing and Demonstrations of exemplary applications

# [ Conclusions

- Regarding recommendations, this WG is at point 0
- Another open point
  - Integration of third party suppliers of spare and optional parts, i.e. nomadic devices
- Recommendations are required for all stakeholders to provide
  - A provable security infrastructure of the area, for which they are responsible including
  - A system to maintain and to manage safety relevant automotive security





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# [ Thank You

## ■ Prof. Dr. Christoph Ruland

co-chair Security Working Group of the eSafety Forum

University of Siegen

Institute for Data Communications Systems

e-mail: [christoph.ruland@uni-siegen.de](mailto:christoph.ruland@uni-siegen.de)

[www.esafetysupport.org/en/esafety\\_activities/esafety\\_working\\_groups/eseconomy.htm](http://www.esafetysupport.org/en/esafety_activities/esafety_working_groups/eseconomy.htm)