

**In-vehicle Communication, Telematics and Co-operative Systems
Workshop on Security and Privacy Issues
Brussels, 27 May 2008
European Commission
Room DUR1 (Jean Durieux), 1st floor, Charlemagne Building,
170 Rue de la Loi (Wetstraat), BE-1049 Brussels, Belgium**

Welcome

Antonio Kung and the morning chair Wolfgang Hoefs welcomed the participants of the workshop

eSecurity WG Session

The current version of the eSecurity draft report was presented:

- Antonio Kung presented the motivation section
- Christoph Ruland presented the overall draft report
- Gloria Pellischek presented legal aspects
- Joachim Scholten presented the view of BMW on operational requirements
- Claude Daulaud (presentation made in the afternoon) presented quality assurance

Walter Franz commented that the reports contained sections where agreements have not been reached yet. His opinion was seconded by Joachim Scholten during his presentation where he called for further discussion concerning operational requirements at the political level.

Further to discussions, it was proposed to

- Restructure the report to separate the agreed part (state of the art and research recommendations) from the rest (e.g. operational issues), highlight that focus is on cooperative systems, point out the need to have an agreed firewall architecture clearly separating the internal vehicle systems from the rest, and include the timing and changing factor
- Set up a new agenda focussing on operational / political issues concerning the interface between the internal vehicle systems and the external cooperative environment

Security Issues Session

Jan Pelzl presented issues related to trusted computing for automotive systems.
Frank Kargl presented issues related to secure vehicle communication.

The following conclusions were made:

- Concerning trusted computing it is needed to define a “firewall” based architecture (this work could be done by the EVITA project).
- At communication level, new approaches are needed, data centric, probability based trust, plausibility based.
- Privacy is not sufficiently analysed

Privacy and Data Protection Issues

The following presentations were made:

- Pay as you drive insurance by Carmela Troncoso
- Privacy protection in database systems by Christoph Freytag
- Industry solutions for privacy protection by Jonathan Price

The article 28 WG party and data protection agencies

It was agreed that collaboration between the eSecurity WG and the article 29 WG had to be continued. The WG will draft an action plan involving interactions with the article 29 WG

A meeting will be organised by G.Pellischek between members of the eSecurity WG and the article 29 WG members (end of June and early July)

Challenges Ahead

Panos Papadimiatratos made an overview on research challenges. He in particular called for research on data centric approaches.

Christoph Ruland made a presentation on recommendations, taking into account the opinion of OEMs who called for further discussions.

Conclusions

Antonio Kung summarised the conclusions of the workshop and Wolfgang Hoefs closed the workshop



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B-1049 Brussels - Belgium
Tuesday, 27 May 2008 - 09.30 - 16.45**

- 09.00 **Registration**
- 09.30 **Welcome and Introduction / Workshop Objectives**
[European Commission, DG INFSO](#)
- 09.45 **eSecurity WG**
Motivation (5 mn) [Antonio Kung, Trialog](#)
Presentation of the Draft Report (10 mn) [Christophe Ruland, U. Siegen](#)
Prerequisite: Legal aspects (15 mn) [G. Pellischek, ERPC GmbH](#)
Prerequisite: Inspection (15 mn) [M. Vierkötter, BAST](#)
Organizational requirements (15 mn) [J. Scholten, BMW](#)
Measures for QA responsibilities (15 mn) [C. Daulaud, Ministère de l'industrie](#)
Discussion (30 mn) [G. Pellischek, ERPC GmbH](#)
- 11.30 **Break**
- 12.00 **Handling Security Issues**
Trusted Computing for Automotive Systems (15 mn) [Thomas Wolinger, ESCRYPT](#)
Secure Vehicle Communication (15 mn) [Frank Kargl, Univ. Ulm](#)
Discussion (30 mn)
- 13.00 **Lunch break**
- 14.00 **Handling Privacy and Data Protection Issues**
Privacy Friendly Pay-as-you-drive Insurance (15 mn) [Carmela Troncoso, KU Leuven](#)
Privacy Protection in Database Systems (15 mn) [Christoph Freytag, Humboldt Univ.](#)
Industry Solutions for Privacy Protection (15 mn) [Jonathan](#)



[Price, Oracle](#)

Viewpoint of Article 29 WG Party and Data Protection Agencies
(15 mn) [Johanna Carvais, CNIL](#)

Discussion (30 mn)

15.30

Challenges Ahead

Research Challenges (15 mn) [Panagiotis Papadimitratos, EPFL](#)
Towards Recommendations (15 mn) Christoph Ruland, Univ.
Siegen

Discussion (30 mn)

16.45

Conclusions & Adjourn

List of participants

Last Name	First Name	Company
BARTSCH	Markus	TVU Informationstechnik GmbH
BELLEN	Marleen	Vlaams Instituut voor Mobiliteit
BIERMANN	Michael	Otto-von-Guericke- University of Magdeburg
BORNSCHEIN	Anke	Volkswagen AG
BRIDGEMAN	Gary	ERTICO - ITS Europe
CAMOLINO	Rui	ASECAP
CARROTTA	Alessandro	ERTICO - ITS Europe
CARVAIS	Johanna	CNIL
CHRIST	Peter	ERTICO - ITS Europe
DE COCK	Danny	KU Leuven (COSIC)
DE MEYER	Pieter	Belgian Federal Public Service
DE SCHAETZEN	Magali	eSafety Support
DECKERS	Sebastian	ITM - Öffentlich-rechtliche Abteilung (Abt. II)
FERREIRA	Francisco	European Commission
FRANKEN	Verena	PTV AG
FRANZ	Walter	Daimler AG
FREYER	Karl-Gerhard	Toll Collect GmbH
FREYTAG	Christoph	University of Humboldt
GAILLET	Jean-François	Ygomi Europe Kft
GASSER	Tom M.	BASSt - Federal Highway Research
HILD	Marcus	Austrian DataProtection Commission
DÖLLE	Lukas	Humboldt University Berli
HOEFS	Wolfgang	European Commission
HOERMANN	Juergen	ERPC
HOPPE	Kathrin	CEA aisbl
KAMALSKI	Theo	TomTom International B.V.
KARGL	Frank	University of Ulm
KORNERSMANN	Nadja	Dekra e.v.
KOSA	Martin	Humboldt University Berlin
KRUMP	Jiri	Office for personal data protection
KUNG	Antonio	Trialog
LARSSON	Rikard	Autoliv Electronics Europe
MAN	Francis YT	Continental Mobility and



NAPOLIONE	Isabella	Transport
NOWICKI	Johann	Altea Italia S.r.l.
NYGREN	Niclas	ADAC c.V
OCAKOGLU	Gzim	Volvo Technology Corporation
		European Commission - DG
		TREN/G4
PAPADIMITRATOS	Panos	EPFL
PELLISCHEK	Gloria	ERPC
PELZ	Jan	Encrypt
PETERSEN	Gerhard	Swiss FEDRO
POTVIN	Michel	Renault
PRICE	Jonathan	Oracle Corporation
REINHARDT	Wolfgang	ACEA
RODRIGUEZ	José	FITSA
RULAND	Christoph	University of Siegen
SANSONE	Fulvio	Oracle EMEA
SCHETTINO	Monica	ERTICO - ITS Europe
SCHMID	Andreas	PTV AG
SCHOLTEN	Joachim	BMW
SEIFERT	Katharina	Volkswagen AG
SNYTR	Milos	Office for personal data protection
		Continental AG
STADLER	Franz	Autoliv Electronics Europe
STRANDBERG	Lennart	Volvo
THORNGREN	Jonas	Oracle
TIJSKENS	Guido	KU Leuven
TRONCOSO	Camela	IMA BENELUX
VAN DE KRAATS	Henri	Tele Atlas
VAN ESSEN	Rob	Technolution
VENEMA	Nol	BAST
VIERKOETTER	Marcel	CESG
WALL	Nigel	BMW
WEYL	Benjamin	Interdisciplinary Centre for Law and ICT (ICRI) - K.U.Leuven
YANGOULLIS	Yiango-George	FIA European Bureau
ZABALAGA	Cristina	