The Nomadic Device Forum

Gustav Markkula, Volvo Technology Corporation
Angelos Amditis, ICCS

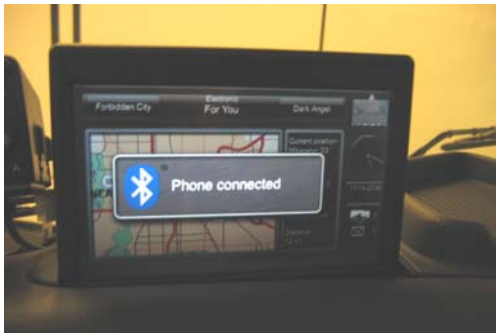
Background

Nomadic Device issues explored in AIDE

- Safety effects of in-vehicle ND use
- ND integration in in-vehicle HMI
  - Use cases and requirements
  - Technical solutions

However, these issues are complex

- Life cycle difference vehicles vs. consumer electronics
- ND integration sensitive from business perspective



The need for a Forum

Needs:

- AIDE project need for input on nomadic device issues
- More general: Need for automotive vs nomadic device industries to meet and discuss

Objectives of first European Nomadic Device Workshop (January 2005, Brussels):

- Inform about the AIDE project and its work on nomadic devices.
- Validate use cases and user/stakeholder requirements for the AIDE project.
- Identify/confirm key issues for nomadic devices: safety, design, integration, installation, use, standardisation.
- Create a cross-sector European interest group concerned with all aspects of nomadic device integration and use in the vehicle

⇒ The Nomadic Device Forum launched June 2005

ND Forum organisation and activities

Management

- Chair: ACEA
- Organising committee – AIDE partners and others

Original working groups established

- WG A: Definition of “Smart Vehicle-Device Gateway”
- WG B: Safety and HMI Issues
- WG C: Business Case

Discussions have stayed within these main topics throughout

2005 – 2008: nine meetings (working group or plenary)

ND Forum achievements (1/2)

Harmonisation of ND activities in AIDE and GST projects

Improved cross-sector awareness and understanding of :

- Market trends and latest developments
- General use cases for a common vehicle-device interface
  - Driver access to ND functions from in-vehicle HMI
  - Central HMI coordination of ND functions with vehicle functions
  - ND as HMI component for vehicle functions
  - Improvement of ND functions by access to vehicle functions/data
  - Improvement of vehicle functions by access to ND functions/data (e.g. connectivity)
- Types of vehicle-device interfaces
  - Function specific (e.g. BlueTooth profiles)
  - Generic (e.g. AMI-C)

GST concept ND integration (France Telecom/Orange)

ND Forum achievements (2/2)

Improved cross-sector awareness and understanding of business issues related to a common vehicle-device interface

- Level of ND control of vehicle HMI?
- Branding?
- Liability?
- Certification?
- Development cost?
- Value chain?
- Life time of interface?

Delivery of WG-A report on use cases and requirements

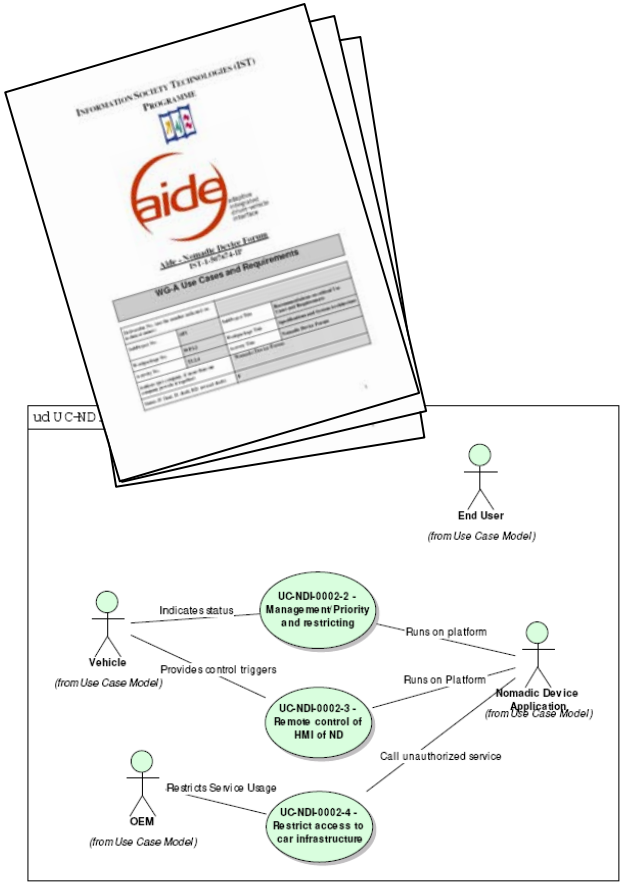


Figure 2 : UC-NDI-0002 - General/1

ND Forum challenges and limitations

No real budget for between-meeting work on e.g. report writing

Business issues are very sensitive

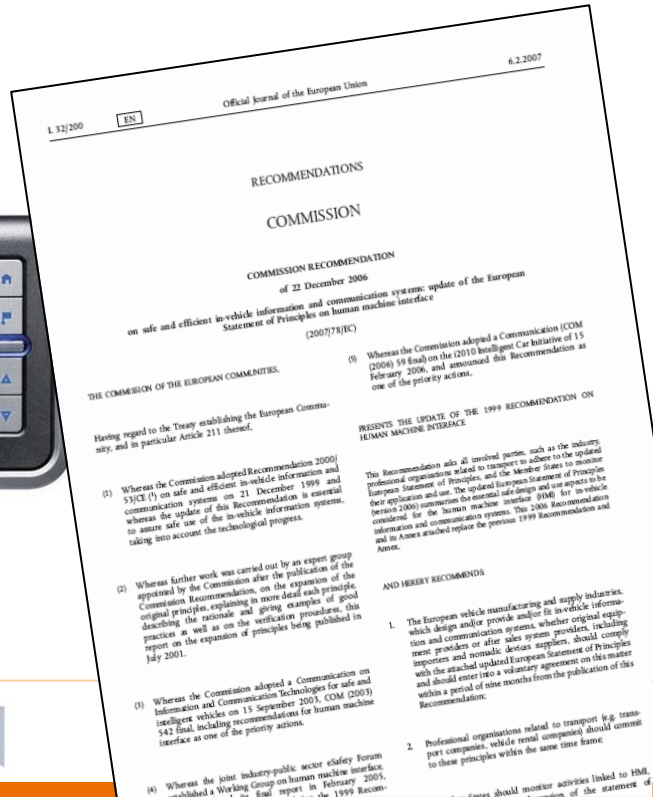
Overall good participation, but constitution of Forum has varied over time

- Lack of ND manufacturer presence has been an issue at times

Meanwhile…

Things that have happened during the life time of the Forum:

- Bilateral integration solutions on market
- Portable navigation explosion
- European Statement of Principles 2006
- Other common gateway efforts (e.g. CE4A)



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RECOMMENDATIONS

COMMISSION

COMMISSION RECOMMENDATION
of 22 December 2006
on safe and efficient in-vehicle information and communication systems: update of the European Statement of Principles on human machine interface
(2007/78/EC)

THE COMMISSION OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Community, and in particular Article 211 thereof,

(1) Whereas the Commission adopted Recommendation 2000/53/CE [1] on safe and efficient in-vehicle information and communication systems on 21 December 1999 and whereas the update of this Recommendation is essential to assure safe use of the in-vehicle information systems, taking into account the technological progress.

(2) Whereas further work was carried out by an expert group appointed by the Commission after the publication of the Commission Recommendation, on the expansion of the original principles, explaining in more detail each principle, describing the rationale and giving examples of good practices as well as on the verification procedures. this report on the expansion of principles being published in July 2001.

(3) Whereas the Commission adopted a Communication on Information and Communication Technologies for safe and intelligent vehicles on 15 September 2003, COM (2003) 542 final, including recommendations for human machine interface as one of the priority actions.

(4) Whereas the joint industry-public sector eSafety Forum established a Working Group on human machine interface, whose final report in February 2005, the 1999 Recom-

(5) Whereas the Commission adopted a Communication (COM (2006) 59 final) on the i2010 Intelligent Car Initiative of 15 February 2006, and announced this Recommendation as one of the priority actions.

PRESENTS THE UPDATE OF THE 1999 RECOMMENDATION ON HUMAN MACHINE INTERFACE

This Recommendation asks all involved parties, such as the industry, professional organisations related to transport to adhere to the updated European Statement of Principles, and the Member States to monitor their application and use. The updated European Statement of Principles (version 2006) summarises the essential safe design and use aspects to be considered for the human machine interface (HMI) for in-vehicle information and communication systems. This 2006 Recommendation and its Annex attached replace the previous 1999 Recommendation and Annex.

AND HEREBY RECOMMENDS

1. The European vehicle manufacturing and supply industries, which design and/or provide and/or fit in-vehicle information and communication systems, whether original equipment providers or after sales system providers, including importers and nomadic devices suppliers, should comply with the attached updated European Statement of Principles and should enter into a voluntary agreement on this matter within a period of nine months from the publication of this Recommendation;

2. Professional organisations related to transport (e.g. transport companies, vehicle rental companies) should commit to these principles within the same time frame;

Member States should monitor activities linked to HMI, ... of the statement of

Current status and activities

Recent period has been active, with a slight shift of focus

- Two successful meetings (Oct 2007, Apr 2008)
- Forum now co-chaired by Medion
- Considerable representation of portable navigation manufacturers

Focus areas of discussions

- Memorandum of Understanding on ESoP
- ND Forum beyond AIDE
  - Organisation (eSafety Forum WG?)
  - Role in relation to other efforts

Conclusions and outlook

The AIDE Nomadic Device Forum has helped forward cross-sector discussions on ND issues considerably

AIDE leaves ND Forum at an exciting point in time

- Conditions for a constructive dialogue between OEMs and portable navigation manufacturers seem better than ever

Future depends on commitment and activities of current and new members

Join the discussions!