



The Nomadic Device Forum

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Background



TOWARDS FUTURE AUTOMOTIVE HMI

AIDE final workshop and exhibition April 15-16, 2008, Gothenburg

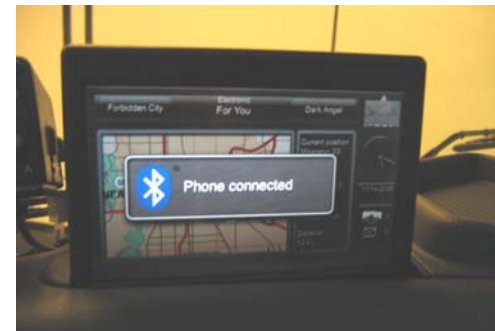
Nomadic Device issues explored in AIDE

- 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



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The need for a Forum



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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



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ND Forum organisation and activities



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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)



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ND Forum achievements (1/2)



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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

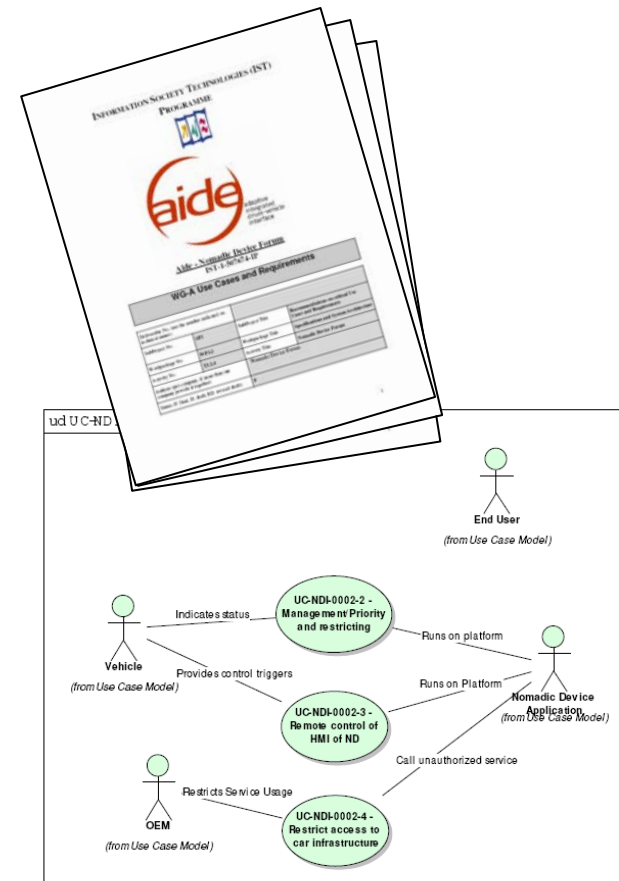


Figure 2 : UC-NDI-0002 - General/1

ND Forum challenges and limitations



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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



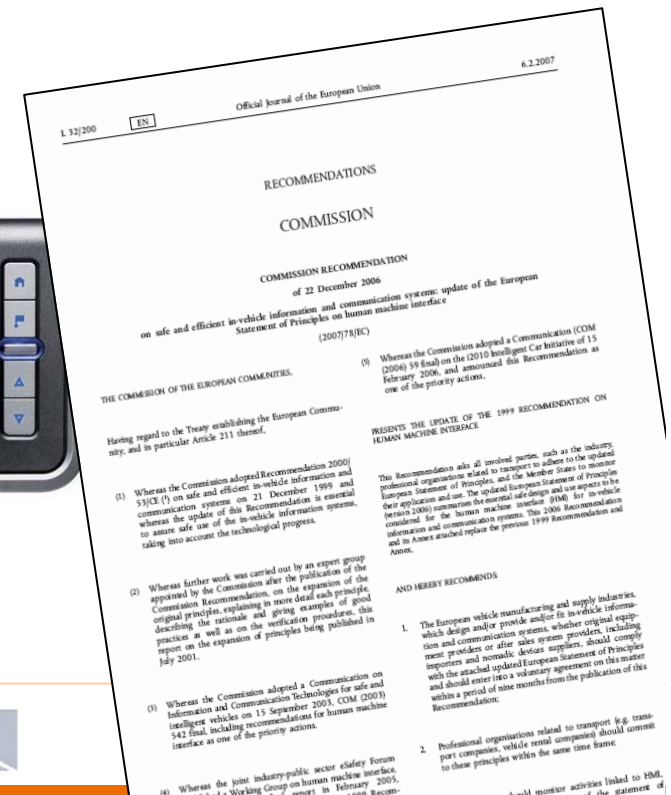
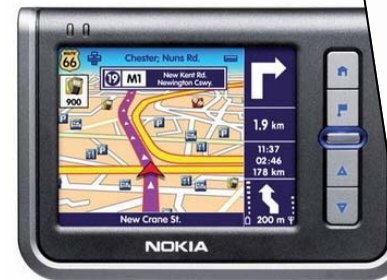
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Meanwhile...



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)



Current status and activities



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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



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Conclusions and outlook



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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!



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