Deployment enablers and barriers

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Opportunities for eCall

• Good cooperation with the stakeholders in all pilot sites
• Real efforts to make the whole chain work

1st eCall Interoperability testing event, 21th May 2012
Content

• Approach of WP6 "Barriers and enablers"
• Tasks and timing
• Framework for the analysis
• Further actions
Cooperation

- WP6 Leader/coordinator: Matti Roine/Armi Vilkman – VTT
- WP6 Manager: Aki Lumiaaho – Ramboll
- WP6 participants:
  - ERT, ITSN, ADAC, OCN, NC, NXP, CONT, ITSRO, MINGR
  - PCM, CRF, TI, NPRD, STA, RWS, KLPD, EENA

- WP6 resources: 72,1 mmonths

FI eCall Leader: Anu Laurell – MinTC Finland
Objectives

Enablers and barriers - Opportunities

• Investigates in details enablers, barriers and solutions towards fast implementation of pan-European eCall

• In detail:
  – To identify deployment barriers at specific local but also common to all MS, including legal ones, and propose measures to overcome them
  – To identify deployment enablers relevant to industrial partners, relevant to authorities and relevant to end-users
  – To identify possible use of eCall system for public/private value added services
  – To identify needs for certification and define recommendations for certification procedure
  – To define the eCall Deployment Guidelines
  – To produce recommendations for eCall implementation and operation in European Member and Associated States
Tasks

• Identification of deployment barriers, enablers and solutions
  – 1., 2. and Final version
• Steps for certification
• eCall deployment guidelines
• Recommendations for eCall implementation
Enablers and barriers - Opportunities

- Enablers
- Enablers
- eCall Guidelines
- eCall Recommendations

Piloting

Harmonised eCall European Pilot
Overview of the situation

• “Barriers, enablers and opportunities” insights gathered from partners before the piloting phase started in 2011, reported

• Second phase integrating situation after the first piloting phases: solutions and experiences, started

• “Steps for eCall Certification” in process, to be finalised soon

• “Guidelines for eCall deployment” starting

• “Recommendations”, starting later on in 2013
General Framework for eCall analysis

1. Phase

- Policy layer
- Business layer
- Application layer
- Network layer
General Framework

• **Policy layer** (eCall policies and implementation, national policies and implementation, general regulation e.g. privacy and safety)

• **Business layer** (all administrative, financial and organisation issues, identification of the stakeholders/actors, regulation affecting the markets and roles, issues related to user - needs and feedback, service and business architecture, markets)

• **Application layer** (technical architecture of the service, interfaces between systems, technical service quality, user interfaces and devices etc.)

• **Network layer** (all communication between systems and stakeholders, interoperability, shared communication protocols and physical components of the system, the mobile communication infrastructure)
Policy situation

• Clear commitment from EP (e.g. the EP resolution in July 2012) and Commission
• 29 countries signed eCall MoU (+107 companies)*
• Are all stakeholders & authorities within MS in the same line? (Road-PSAP-Rescue-Health etc.)
• Emergency rescue services and PSAP structures vary a lot in the countries > tailored specifications and implementations needed
• Certification process to be set up

*Situation 10/2012
Business situation

- Financing the upgrading of systems (PSAPs, MNOs etc.) need state regulation
- IVS market develops faster when the demand is formed up in piloting
- Retrofit one of the new working area
- Smartphone discussion opened
- TPS & value added services need a common policy - eCall and other services on the same platform?
- Costs/ Benefits for the value chain: are costs rightly distributed?
Applications/Networks situation

• Piloting brings up the weak and strong links in the chain (see next slide)
• Standards are still insufficient and may also include faults: tasks to the HeERO TF
• Tailoring required in piloting phase because of the variety of PSAP system environments
• MNO and eCall flag implementation required, regulation progressing
• MNO’s have also clear expectations for the well functioning service
eCall building blocks

**Works properly according standards**
- Certified and checked
- Enduring & Robust
- Long maintenance cycle

**System updated for eCall**
- Receiving correctly
- Operators trained
- Processes back up eCall

**End-User**
- Informed eCall users
  - Knows what he/she gets from different options
  - No false alarms
  - High-level and guaranteed service

**Network Coverage adequate**
- Echo & voice handling does not disturb eCall
- MSD & eCalls with priority speed, accuracy, and quality
- eCall flag

**PSAP**

**IVS**

**MNO**
D6.3: Table of contents 1/3 - Preliminary

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7 REFERENCES
D6.3: Needs for eCall Certification – two suggested solutions - Preliminary

- **Own type-approval certification**
  - **IVS**
    - EU-wide type-approval → same component in every member state excluding localisation.
  - **MNO**
    - No specific needs for external certification. Nation-wide instructions which complies with the standards.
  - **PSAP**
    - Nation-wide certification which complies with the standards → operational model needs to be absolutely reliable.

**Common certification possibility**
Preparing the guidelines and recommendations

Material from different sources, workshops and forums

Experiences from piloting

Guidelines

Recommendations

Steps for Certification

PSAP

End-User

IVS

MNO

2012

2013
“Guidelines for eCall deployment”

• **Why** – to help eCall implementation and deployment

• **For whom** – identification of all main actors and their special needs

• **How** – timeline related to eCall deployment and e.g.
  - Organisation, roles and management
  - Issues related to standards
  - Specifications
  - Certification procedure
  - Financial issues
  - Technology innovations
  - Connections: bCalls / TPS eCall, TMC
EEIP Pan-Eu eCall implementation Guidelines

(Last revision 3th February 2012)

1. INTRODUCTION
   1.1 Intended audience (= EEIP members)
   1.2 Objectives

2. PAN-EUROPEAN ECALL SERVICE
   2.1 Introduction
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   2.3 Benefits

3. MEMBER STATES
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4. IN VEHICLE SYSTEM
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7. ROAD OPERATORS

8. POSSIBLE OTHER VALUE SERVICES
   8.1 Possible strategies

9. THIRD PARTY SERVICES AND PUBLIC ECALL
Directions to Guidelines?

• Why?
  - Better safety for road users in Europe
  - Faster and more effective take-up and deployment in MS
  - Choosing strategy, overcoming problems and avoiding errors, min financial burden

• Whom?
  – Decision or/and operational levels
  – MS not piloting yet
  – IVS, MNO, PSAP organisers and operators
  – Other stakeholders

• How
  - Existing eCall and other material
  - HeERO pilot experiences and solutions to identified problems
  - In cooperation with main stakeholders

• When
  - By May 2012
Recommendations

• Integrating all piloting experiences of piloting towards implementation
• Transfering major experiences to solutions and recommendations
• Recommendations seen as reaching the best-practise
• Avoiding loss of resources and reaching high-level pan-European interoperable eCall service implementation
Thank you for attention
Questions ?