HGV eCall Rotterdam
Crash Course into eCall

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What is eCall

- An In Vehicle System (IVS) that can be triggered either manually or automatically to set up a connection to a PSAP (112), subsequently send some data and then set up a voice link between occupants and operator:

- Mandatory for ‘new model’ vehicles as of March 2018
- Mandatory for PSAP/112 organizations as of October 2017
The Minimum Set of Data

- The Minimum Set of Data (MSD) is a packet of 140 bytes that is transferred at the beginning of the call over a modem connection.

- The MSD comprises of several data elements, some fixed (ie. VIN), most dynamic (ie. activation type, location) and a portion optional additional data.

- Due to the limited space, extra information needs to be obtained elsewhere (ie. the color of the vehicle can be retrieved from EUCARIS based on the VIN)
Additional data

• MSD has some 80+ bytes available for optional additional data.

• Providing information about the cargo of involved vehicles has been identified as relevant for the emergency services

• TS16405 is the first attempt to use the additional data to accommodate such needs

• Two schemas: one for cargo information in the MSD (Schema A), one for supplying (a way to access) an external information service with cargo information
TS16405 Schema A and Schema B

• Two groups of transports were identified:
  – ...those with no means to make cargo information online available
  – ...those who do have this possibility

• Schema A aims at the first group:
  – up to seven different dangerous goods and six different others
  – information in MSD is fixed, semi-fixed or filled from an OBU
  – additional benefit: information immediately available to PSAP

• Schema B aims at the second group:
  – MSD contains relevant information to access external source
  – no action in vehicle

• Both allow for inclusion of alarm information
Schema A and B as a picture
Further to Schema B ...

- In theory every PSAP (‘n’) has to be able to contact every cargo information provider (‘m’) which leads to at least \( n \times m \) relations.

- Given the confidentiality of the data this not only has a technical effect, but also creates the need for (more than) \( m \times n \) bilateral agreements.

- This calls for action: a PSAP should have a single point of contact to obtain cargo data, the same way as EUCARIS is a single point for car registration data.

- A Proof of Concept operational Cargo Information Portal has been created as an example of such SPoC.
Example of retrieval of data (Schema B)

- A Proof of Concept, but ready to use eCall Cargo Information portal:

- More about this in the demonstration later
Questions?

- Not now
- Ask during demonstration (I’ll be back)
- Ask later today
- Ask via e-mail: frank.maas@cheiron-it.nl