

E SAFETY STUDY PROPOSAL

GENERAL INFORMATION

Title:	eCall VIN decoder
eSafety Area/Topic:	Implementation of pan-European in-vehicle emergency call, eCall
Applicant:	European Commission, eCall DG
Launch date (expected) ⁽¹⁾ :	1 May 2008
Duration in months (expected) :	3 months

OBJECTIVES / STRATEGY

Justification ⁽²⁾ :

The primary target of the eSafety Forum is to accelerate the deployment and penetration of eSafety system. eCall has been identified as one of the highest priorities for implementation. It is necessary that the PSAPs could have a common open decoder of the Vehicle Identification Number (VIN) included in the Minimum Set of Data (MSD) to be able to extract the necessary information (i.e., vehicle model, type, model year) to handle the emergency call.

Description of the objectives: To produce a VIN decoder available for the PSAPs in all EU member states and associated states to the eCall initiative by second half 2008.

Proposed methods:

In collaboration with the Association of Vehicle Manufacturers, which have already indicated their willingness to co-operate providing the necessary codes, to elaborate a VIN decoder that could be used by all PSAPs in Europe to handle in an efficient way the eCalls. The work may be based on existing VIN decoders, enhancing them to provide the necessary functionalities to handle eCall.

Expected exploitation of results:

The results will be used by the PSAPs, integrating the decoder in their operational systems

Can the results be public? (Yes/No)

Yes* Restricted to the PSAPs

Synergies / collaboration with other eSafety Areas:

Focused on eCall

BUDGET

Estimated amount: 20 000 €

RESULTS OF BIBLIOGRAFIC SEARCH ⁽³⁾

Some VIN decoders can be found in Internet (e.g., see Centro Zaragoza VIN decoder, www.analogx.com, VIN decoder, BMW VIN decoder, etc). However they are not publicly available nor provide all the information necessary for the handling of eCalls (i.e. restricted to some brands, some VIN positions only)

COMMENTS

The necessity of developing a common VIN decoder for the PSAPs was identified in the 2nd meeting of the eCall PSAPs expert Group, with participation of the eCall DG and ACEA representatives.

Legenda:

1) This is the date of the publication of the Call for Tender or other procurement procedure.

2) Explain why you need an external study on the topic. Furthermore, if a similar study has been conducted earlier, specify the need for repeating it and how can the former results serve this new study.

3) Describe which search you have conducted, before requesting this study, with a view to avoiding repetition/duplication. Summarise the results of the search. Specify which database/sources you have consulted.

B.2 Terms of Reference Template

eCall VIN Decoder

TERMS OF REFERENCE

Part 1: Technical description

Part 2: Administrative details

Part 1: Technical description

1. CONTEXT

The eSafety Forum has identified eCall (pan-European in-vehicle emergency call system) as one of the highest priorities for implementation. The European Commission has published two Communications focused on eCall, and in the last Communication "First Report on the Intelligent Car Initiative" calls all stakeholders to support the eCall implementation. The European Parliament has also given by vast majority its support to the eCall initiative.

13 Member States and 3 Associated States have given their support to the eCall initiative signing the eCall Memorandum of Understanding (MoU), and more than 60 organisations representing all stakeholders have also signed the MoU.

It is clear that there is a broad consensus on the benefits and the importance of eCall in Europe. The necessity of having a common VIN decoder available to the PSAPs in Europe has been identified as a necessary step for the implementation of eCall.

2. OBJECTIVES OF THE ACTION

The objective is to develop a VIN Decoder able to extract the relevant information (and only that information) from the VIN number included in the Minimum Set of Data necessary to handle in an appropriate way the emergency call.

When an eCall is activated, either manually or automatically in case of a serious incident, a Minimum Set of Data (MSD) is transmitted along with the voice call to the relevant Public Safety Answering Point (PSAP)

The structure of the MSD is defined in the CEN document *CEN/TS 15722 "Road transport and traffic telematics — ESafety — eCall minimum set of data (MSD)"*

The MSD includes the VIN number of the vehicle. The PSAPs needs a decoder to extract the relevant information included in the VIN needed to handle the emergency, such as: vehicle brand, model, model year, vehicle type, type of energy (if included) and any other relevant information that could be extracted from the VIN that could improve the response from the PSAPs (e.g., colour,...).

Due to privacy regulation, the decoder shall provide to the PSAPs operators only the information strictly necessary to handle the emergency in an appropriate way.

The sequence of operation in case of an eCall is as follows:

1. The eCall is triggered, automatically or manually
2. The in-vehicle system bundles the MSD and connect to the mobile network
3. The Mobile Network Operator identifies the eCall and transmit the 112 call along with the MSD to the relevant PSAP
4. The PSAP operator receives the eCall. Quasi-simultaneously the screen of the operator will show the data associated to the incident, including the VIN number and the data associated to it.

It is important that the VIN decoder could proportionate quickly the data extracted from the VIN included in the MSD to the PSAP operator, so that (s)he can respond quickly to the emergency call with all the necessary data.

3. DURATION

The task should be carried out in 1-2 person months. The action should be started by end June 2008 and the deadline for execution of the task is 30 September 2008.

To carry out the foreseen activities the contractor is expected to liaise with vehicle manufacturers and of PSAPs, i.e., through ACEA and eCall PSAPs Expert Group representatives.

4. DELIVERABLES

The following deliverables are required from the contract:

1. Final Report of the project
2. VIN decoder Software.

The Final Report shall informed briefly about the tasks carried out for the completion of the work and may include recommendations to harmonise VIN numbers from the different vehicle manufacturers in order to provide the more information as needed by the PSAPs in a consistent way. The report should also identify a mechanism to maintain the relevant information to keep the VIN database updated in collaboration with vehicle manufacturers.

The decoder Software shall allow any PSAP operator to interpret the information contained in the VIN number included in the eCall MSD in an easy way. The PSAPs should be able to integrate the Software within their usual operational programmes.

After reception of the deliverables, eSafety Support will have 30 calendar days in which:

- to approve them, with or without comments or reservations,
- to reject them and request new deliverables.

If eSafety Support does not react within this period, the deliverables shall be deemed to have been approved.

Where eSafety Support request new or modified deliverables because the ones previously submitted have been rejected, this shall be submitted within 30 calendar days. The new deliverables shall likewise be subject to the above provision.

5. Indicators and criteria to assess the quality of the achievements

The following quality indicators will be used to measure the quality of the deliverables submitted:

- Ability of the VIN decoder to extract the relevant information from the VIN number, included rapidity
- Completeness of the number of vehicle brands whose VIN can be decoded
- Reliability, dependability and openness of the Software produced

Part 2: Administrative details

1. Selection criteria

Technical Background

The proof of the relevant technical background of the candidates has to cover the following aspects:

1. Relevant expertise of the candidate and other applicants, including subcontractors if any, in the last 3 years, in the specific domain of this action.
2. Experience and credibility of proposed team: concise but informative curricula vitae of all professional team members, showing relevant experience in the specific domain of this action for the last 3 years, must be included with the tender
3. Technical knowledge and experience in issues related to software development and information decoders, in particular related to VIN numbers
4. Management capability

Documentary evidence of the candidates' claims in respect of the abovementioned criteria is required, for example by way of lists of studies, research, previous projects and contracts, related websites, etc.

2. Award criteria

Technical criteria

The tenders will be evaluated following the award criteria outlined below producing a total score out of 100%.

1. Understanding of the task required in relation to the tender (30 %)
 - Credibility, control and understanding of the work to be carried out (listed in part 1, points "objective of the study" and "duration"). Through further elaboration in the tender. The candidate should explain the way in which he intends to handle these points.
2. Technical content of the tender (50%)
 - Competitiveness and quality of the technical approach.
 - Degree to which all relevant issues are covered.
 - Quality of the tender in terms of reaching the objectives
 - Quality of deliverables.
3. Management (20%)
 - Verifiable objectives
 - Balanced and consistent method of work.
 - Realistic time scale
 - Adequate allocation of resources and expertise.

Minimum attainment per criterion

Offers scoring less than 50% for any criterion will be deemed to be of insufficient quality and eliminated from further consideration.

3. Deadline for the candidates

The deadline for the tender submission is **30th May, 18h00** (Brussels time).

The final decision will be taken by **Friday 13 June 2008**, communicated to the selected candidate and published on the eSafety Support website.

The tender, plus the documentation that can help to evaluate the quality of the offer, can be sent:

- By email at the following address, specifying the subject "Tender eCall VIN "

info@esafetysupport.org

- By post at the following address:

eSafety Support Office
The Blue Tower - 2nd floor
Avenue Louise, 326
1050 - Brussels
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