TECHNICAL REPORT

RAPPORT TECHNIQUE

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English Version

Intelligent transport systems - ESafety - ECall additional optional data set for heavy goods vehicles eCall

Systèmes de Transports Intelligents - ESafety - Ensemble optionnel de données additionnelles ECall pour l'ECall des poids Lourds

Intelligente Transportsysteme - eSicherheit - Zusätzliche optionale Datenmenge im Schwerkraftverkehr für eCall

This Technical Report was approved by CEN on 30 July 2012. It has been drawn up by the Technical Committee CEN/TC 278.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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Management Centre: Avenue Marnix 17, B-1000 Brussels

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Foreword

This document (CEN/TR 16405:2013) has been prepared by Technical Committee CEN/TC 278 “Road transport and traffic telematics”, the secretariat of which is held by NEN.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

Introduction

An *eCall* is an emergency call generated either automatically via activation of in-vehicle sensors or manually by the *vehicle occupants*; when activated, to provide notification and relevant location information to the most appropriate Public Safety Answering Points (PSAP), by means of *mobile wireless communications networks* and carries a defined standardised Minimum Set of Data (MSD), notifying that there has been an incident that requires response from the emergency services and establishes an audio channel between the occupants of the vehicle and the most appropriate PSAP.

The MSD (specified in EN 15722) contains static information regarding the vehicle, dynamic information regarding its location, direction of travel etc., at the time of the incident, and makes provision for additional data to be provided.

This Technical Report provides potential specification for an optional additional data concept for HGVs to provide dynamic data about the load that it is carrying at the time of the incident that triggered the *eCall*, with specific emphasis on identification of dangerous goods. Two variants are provided, one (schema A) for use where dangerous goods (ADR classified); the second variant (schema B) is for use where no ADR classified load is known.

It is the intention that the specification in this Technical Report is tested in demonstration projects (such as HeERO) with a view to becoming the basis for a future European or International Standard.

NOTE The communications media protocols and methods for the transmission of the eCall message are not specified in this Technical Report.

Additional data concepts may also be transferred, and any such data concepts should be registered using a data registry as defined in EN ISO 24978.

1 Scope

This Technical Report defines an additional data concept that may be transferred as an 'optional additional data concept' as defined in 'Block 12' of CEN 15722 eCall MSD, that may be transferred from a goods vehicle to a PSAP in the event of a crash or emergency via an *eCall* communication session. Two variants are provided, one (schema A) for use where dangerous goods (ADR classified); the second variant (schema B) is for use where no ADR classified load is known.

NOTE The communications media protocols and methods for the transmission of the eCall message are not specified in this Technical Report.

Additional data concepts may also be transferred, and any such data concepts should be registered using a data registry as defined in EN ISO 24978.

2 Conformance

In order to claim conformance with this deliverable, communication is to be established using accepted wireless communication standards, and it is to be able to demonstrate that the MSD transferred together with any standardised optional data elements defined herein comply with the specifications of this Technical Report, to the extent that such data is available from the vehicle.

3 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 15722:2011, *Intelligent transport systems — eSafety — eCall minimum set of data (MSD)*

EN 16062, *Intelligent transport systems — eSafety — eCall high level application requirements (HLAP)*

EN 16072, *Intelligent transport systems — eSafety — Pan European eCall operating requirements*

EN 16102, *Intelligent transport systems — eCall — Operating requirements for third party support*

EN ISO 24978, *Intelligent transport systems — ITS Safety and emergency messages using any available wireless media — Data registry procedures (ISO 24978)*

ISO/IEC 8825-2, *Information technology — ASN.1 encoding rules: Specification of Packed Encoding Rules (PER)*

4 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

4.1
112
single European emergency call number supporting Teleservice 12

[SOURCE: ETSI TS 122 003]