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Standards

Irish Standard Recommendation  
S.R. CEN/TS 17249-5:2019

# Intelligent transport systems - eSafety - Part 5: eCall for UNECE Category L1 and L3 powered two-wheeled vehicles

**S.R. CEN/TS 17249-5:2019**

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NSAI  
1 Swift Square,  
Northwood, Santry  
Dublin 9

T +353 1 807 3800  
F +353 1 807 3838  
E standards@nsai.ie  
W NSAI.ie

Sales:  
T +353 1 857 6730  
F +353 1 857 6729  
W standards.ie

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## National Foreword

S.R. CEN/TS 17249-5:2019 is the adopted Irish version of the European Document CEN/TS 17249-5:2019, Intelligent transport systems - eSafety - Part 5: eCall for UNECE Category L1 and L3 powered two-wheeled vehicles

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TECHNICAL SPECIFICATION  
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**CEN/TS 17249-5**

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English Version

**Intelligent transport systems - eSafety - Part 5: eCall for  
UNECE Category L1 and L3 powered two-wheeled vehicles**

Intelligente Verkehrssysteme - eSicherheit - Teil 5:  
eCall für UNECE-Kategorie L1 und L3 angetriebene  
zweirädrige Fahrzeuge

This Technical Specification (CEN/TS) was approved by CEN on 7 January 2019 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

CEN members are required to announce the existence of this CEN/TS in the same way as for an EN and to make the CEN/TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the CEN/TS) until the final decision about the possible conversion of the CEN/TS into an EN is reached.

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**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

## CEN/TS 17249-5:2019 (E)

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## **European foreword**

This document (CEN/TS 17249-5:2019) has been prepared by Technical Committee CEN/TC 278 “Intelligent transport systems”, 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 shall not be held responsible for identifying any or all such patent rights.

**NOTE** This document is complementary to EN 16072 and EN 15722 and presents adaptation requirements for the provision of eCall for powered two wheel vehicles.

According to the CEN/CENELEC Internal Regulations, the national standards organisations of the following countries are bound to announce this Technical Specification: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

## CEN/TS 17249-5:2019 (E)

### Introduction

In accordance with European Regulation, from 31<sup>st</sup> March 2018, all new model Category M1/N1 vehicles will be, as a result of European Regulation, from 2018, equipped with 112-eCall (3.2). Other model Category M1/N1 vehicles may be voluntarily equipped with 112-eCall (3.2).

The eCall Regulation at the time of developing this deliverable covers only M1 and N1 Category vehicles (cars and vans). The European Commission's "ICT Rolling Plan" (2017) states the objective "Action 1 Develop technical specification/standards for the implementation of eCall in vehicles of categories other than M1 and N1 and for other user types, taking into account requirements included within type approval regulation as well as ongoing activities in this area (pilots, CEF,...)." And it goes on to explain "... for the extension to other vehicles types and services, such as Heavy Duty Vehicles, Power two wheel vehicles or Hazardous Goods tracking, and other classes of vulnerable road users".

See CEN/TR 17249-1.

Powered two wheel vehicle (vehicle mounted) 112-eCall (3.2), using OEM systems included during the manufacture of the vehicle, present challenges to the eCall paradigm, in that in an accident, the rider is likely to be separated from the vehicle, usually by a considerable distance. eCall equipment mounted on P2WVs is also subjected to far harsher environmental exposure than its in-car counterparts, and providing equipment, such as speakers, that will last and reliably operate for the lifetime of the vehicle, presents a significant problem. This document takes these issues into account as a variation of the requirements specified for Category M1 and N1 vehicles by providing equipment to enable assistance responders to hear background sounds, but does not provide the requirement for two-way voice dialogue in all models, although this may be possible for some vehicle model designs. Other features that characterize eCall are maintained. An optional additional data element that enables the PSAP to identify where voice communications are possible or not, is added.

This document defines the additional high level service requirements for the provision of eCall to powered two wheel vehicles of UNECE Category L1 and L3 (vehicle mounted). As with the existing provisions for eCall for Category M1/N1 vehicles, and other specifications in this series, these are specified within the paradigm of being OEM fit equipment supplied with new vehicles.

**NOTE** The provision of eCall for aftermarket vehicles will be the subject of other work, and in respect of the operational requirements for any such aftermarket solutions for vehicles, will use the specifications of this document as a principle reference point.



## 1 Scope

In respect of 112-eCall (operating requirements defined in EN 16072), this document defines adaptations to eCall specifications defined in EN 16072 and other related documents to enable the provision of eCall for powered two wheel vehicles (vehicle centred).

As with the existing provisions for eCall for Category M1/N1 vehicles, these are specified within the paradigm of being OEM fit equipment supplied with new vehicles.

For the purposes of the present document, the P2WV 'L' categories, as defined in Directive 2002/24/EC, Regulation (EU) No 168/2013, UNECE and as referenced/specified in EN 15722 apply.

This document includes only the requirements for Category L1 and L3 powered two wheel vehicles (vehicle based) with the exception of L1e-A (powered cycle), although CEN/TS 17249-6 may reference other 'L' subcategories to use this document. (It will be noted that the categories L1 to L7 include 2, 3 and 4 wheel types e.g. motorcycles, tricycles and quadricycles.)

NOTE 1 Other Technical Specifications may be prepared for other UNECE category 'L' variants.

NOTE 2 The provision of eCall for vehicles via the aftermarket (post sale and registration) will be the subject of other work, and in respect of the operational requirements for any such aftermarket solutions for powered two wheel vehicles (vehicle centred), will use the specifications of this document as a principle reference point.

NOTE 3 The 112-eCall paradigm involves a direct call from the vehicle to the most appropriate PSAP. (Third party service provision by comparison, involves the support of an intermediary third party service provider before the call is forwarded to the PSAP.) The specifications herein relate only to the provision of 112-eCall or IMS-112-eCall (3.10), and do not provide specifications for third party service provision of eCall.

NOTE 4 Some of the elements of this document will require further in depth analysis before they can be implemented in a European Standard. These elements are included in this document however to document the current state of development of a European Standard. The current state of development on these elements justifies their inclusion in this document, but further assessment and analysis might require an amendment before implementation into a European Standard. (This is a normal evolution from a Technical Specification to a European Standard.)

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 15722:2015, *Intelligent transport systems — ESafety — ECall minimum set of data*

EN 16062, *Intelligent transport systems — ESafety — eCall high level application requirements (HLAP) using GSM/UMTS circuit switched networks*

EN 16072:2015, *Intelligent transport systems — ESafety — Pan-European eCall operating requirements*

EN 16454, *Intelligent transport systems — ESafety — ECall end to end conformance testing*

CEN/TS 17184, *Intelligent transport systems — eSafety — eCall High level application Protocols (HLAP) using IMS packet switched networks*

CEN/TS 17240, *Intelligent transport systems — ESafety — ECall end to end conformance testing for IMS packet switched based systems*

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