ICS 35.240.60 SLOVENSKÁ TECHNICKÁ NORMA Január 2026

STN	**Inteligentné dopravné systémy Elektronická bezpečnosť Testovanie zhody eCall od začiatku do konca pre eCall HLAP v hybridných sieťových prostrediach s prepínaním okruhov/ s prepínaním paketov**	**STN EN 18052** 01 8609

Intelligent transport systems - ESafety - ECall end to end conformance testing for eCall HLAP in hybrid circuit switched/packet switched network environments

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 12/25

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English Version

Intelligent transport systems - ESafety - ECall end to end conformance testing for eCall HLAP in hybrid circuit switched/packet switched network environments

Systèmes de transport intelligents - eSafety - Essais de conformité du système eCall de bout en bout pour le HLAP d'eCall dans les environnements réseaux hybrides à commutation de circuits et de paquets

Intelligente Verkehrssysteme - eSicherheit - eCall-Ende-zu-Ende Konformitätsprüfungen für übergeordnete eCall-Anwendungen in hybriden leitungs-/paketvermittelnden Netzwerkumgebungen

This European Standard was approved by CEN on 6 July 2025.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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European foreword

This document (EN 18052:2025) has been prepared by Technical Committee CEN/TC 278 “Intelligent transport systems”, the secretariat of which is held by NEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2026, and conflicting national standards shall be withdrawn at the latest by April 2026.

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.

This document is the result of narrowing down the scope of EN 17240 to exclusively describe end to end conformance tests for the eCall High Level Application Protocols in packet switched networks.

This document complements EN 16454 and EN 17240.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom

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 Point* (PSAP), by means of *mobile wireless communications networks* and carries a defined standardized *Minimum Set of Data*, 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*.

NOTE 1 The term PSAP, which is most widely used in the *eCall* documentation, European Commission documents, etc., is used throughout this document and equates to the term *emergency call response centre* used in the ITS Implementation Directive.

EN 15722 specifies a standardized MSD for eCall, EN 16062 specifies high level application protocols for eCall and EN 16072 specifies pan-European eCall operating requirements. For third party systems, EN 16102 specifies third party services supporting eCall operating requirements.

The pan-European *eCall* are made using Public Land Mobile Networks (PLMN) for which operating requirements are specified in a number of ETSI standards and technical specifications. In order to provide the *eCall service* across a wireless network, high level application protocols are required as an important essential element to affect this service provision. Originally PLMN were circuit switched networks for which EN 16062 specifies High Level Application Protocols. In these networks eCall uses Teleservice No 12 (TS12) and in-band modem transfer of data.

Over time, new communication technologies have become available. These technologies use so called 'packet switched' technologies using Internet protocols (IP). Particularly, 3GPP have evolved a communication management system called IMS (IP Multimedia Subsystem) which is suitable to operate over a number of bearer technologies, including LTE, NR and their successors. It is anticipated that packet switched networks (such as LTE, NR and their successors), which now co-exist with circuit switched networks (like GSM/UMTS), will, over the course of time, replace circuit switched networks.

EN 17184 provides High Level Application Protocols (HLAP) for eCall using IMS over packet switched networks. It provides the equivalent of EN 16062 for circuit switched networks and should be suitable for all/any packet switched networks and wireless access such as LTE, NR and their successors. A new Standards Deliverable EN 17905 has been developed for the provision of *eCall* HLAP in hybrid circuit switched/packet switched network environments.

In some areas both circuit switched and packet switched networks will co-exist, but there will be areas that only have packet switched network services. This document specifies the protocols in this hybrid situation, in order to make sure that pan-European *eCall* will function as efficiently as possible.

NOTE 2 A (possibly) large number of vehicles support circuit switched in-band eCall only (and not eCall using IMS over packet switched networks). For these to be able to continue using the *eCall service* either the onboard equipment will need to be upgraded (to support eCall using IMS) or sufficient circuit switched networks need to remain operational. This falls outside the scope of this document and is not addressed herein.

This document complements EN 16454 and EN 17240 and provides a set of end to end conformance tests in order to verify the support of *eCall* HLAP in hybrid circuit switched/packet switched network environments. This document provides tests to enable actors in the eCall chain to be able to claim conformance with EN 17905, even though they are unable to control the behaviour of systems of other actors in the eCall chain.

NOTE 3 Conformance tests in this document allow demonstration that a system complies with EN 17905 and is a prerequisite to providing an interoperable compliant system, but do not by themselves demonstrate that a system will function nor guarantee the quality of service.

The European Committee for Standardization (CEN) draws attention to the fact that it is claimed that compliance with this document may involve the use of patents concerning eCall given in EN 16062 and various ETSI standards for the *network access device* and cellular mobile networks.

CEN takes no position concerning the evidence, validity and scope of these patent rights.

1 Scope

This document describes the key actors in the eCall chain of service provision in hybrid circuit switched/packet switched network environments as:

1) *In-Vehicle System* (IVS)/vehicle,

2) Mobile Network Operator (MNO),

3) *Public Safety Answering Point* (PSAP),

and to provide conformance tests for actor groups 1) – 3).

NOTE 1 Conformance tests are not appropriate nor required for *vehicle occupants*, although they are the recipients of the service.

NOTE 2 Third party eCall systems (*TPS-eCall*) are not within the scope of this document. This is because the core *TPS-eCall* standard (EN 16102) does not specify the communications link between the vehicle and the TPS *service provider*.

NOTE 3 These conformance tests are partly based on the appropriate conformance tests from EN 16454 and EN 17240. This deliverable therefore adapts and revises Conformance Test Procedures (CTPs) from EN 16454 and EN 17240 for hybrid circuit switched/packet switched network environments.

This document complements EN 16454 and EN 17240 and provides a suite of conformance tests for IVS equipment, MNOs and PSAPs, required to ensure and demonstrate compliance with EN 17905.

The scope covers conformance testing of new engineering developments, products and systems, and does not imply testing associated with individual installations in vehicles or locations.

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 17905:2023, *Intelligent transport systems - eSafety - eCall HLAP in hybrid circuit switched/packet switched network environments*

EN 17184:2024, *Intelligent transport systems - eSafety - eCall High level application Protocols (HLAP) using IMS packet switched networks*

EN 16062:2023, *Intelligent transport systems - ESafety - eCall high level application requirements (HLAP) using GSM/UMTS circuit switched networks*

EN 15722, *Intelligent transport systems - ESafety - ECall minimum set of data*

EN 16072:2025, *Intelligent transport systems - ESafety - Pan-European eCall operating requirements*

ETSI TS 124 229 (Release 16), *Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; 5G; IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3 (3GPP TS 24.229 Release 16)*

ETSI TS 123 167 (Release 16), *Universal Mobile Telecommunications System (UMTS); LTE; IP Multimedia Subsystem (IMS) emergency sessions (3GPP TS 23.167 Release 16)*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN