DIN EN 17184:2026-05 (E)

Intelligent transport systems - eSafety - eCall High level application protocols (HLAP) using IP Multimedia Subsystem (IMS) over packet switched networks (includes Amendment :2026)

Contents

Page

European foreword 4

Introduction 5

1 Scope 6

2 Normative references 6

3 Terms and definitions 8

4 Symbols and abbreviations 11

5 Conformance 13

6 General overview of pan European eCall session via Packet Switched networks 13
6.1 General principle 13
6.2 eCall over Packet Switched networks 14
6.3 eCall using IMS over Packet Switched networks 14
6.4 The hybrid situation 19

7 Requirements 20
7.1 General requirements 20
7.1.1 General 20
7.1.2 Enabled IVS 20
7.1.3 Enabled PSAP 20
7.1.4 eCall-only IVS 21
7.1.5 ECL: eCall using IMS support indicator 21
7.2 Procedures following power-up of the in-vehicle system 22
7.2.1 Self-test 22
7.2.2 Standby mode applicable to eCall-only IVS 22
7.3 Activation 22
7.3.1 Activation of eCall using IMS over packet switched networks 22
7.3.2 Activation of a test eCall 22
7.4 Call set-up 23
7.4.1 General 23
7.4.2 eCall in progress 23
7.4.3 Network selection and registration 23
7.4.4 Authentication of the subscriber 24
7.4.5 Establishment of an eCall using IMS over packet switched networks 25
7.4.6 Caller localization by the network 25
7.4.7 Manual !cancellation" of eCall by vehicle occupants before trigger confirmation 25
7.4.8 Call rejection 25
7.4.9 Call failure 26
7.4.10 Security 26
7.5 MSD transfer for eCall using IMS over packet switched networks 26
7.6 Application layer acknowledgement (AL-ACK) 27
7.6.1 General 27
7.6.2 Successful receipt by the PSAP of the initial MSD 27
7.6.3 Unsuccessful receipt by the PSAP of initial MSD 28

7.6.4 No receipt of MSD acknowledgement 28
7.6.5 Other forms of acknowledgement 28
7.7 PSAP requests a new/updated MSD 29
7.7.1 General 29
7.7.2 Before session clear-down 29
7.7.3 After session clear-down 30
7.8 MSD transfer using in-band modem (optional) 30
7.9 Audio link to vehicle occupants 30
7.10 eCall clear-down 30
7.11 PSAP call-back 31
7.12 Rerouting to another PSAP/emergency control centre 32
7.13 Handling non equipped situations / error cases 32
7.13.1 Network related issues 32
7.13.2 MSD related issues 33
7.13.3 PSAP network/ICT failure 33
7.13.4 Call related issues 34

8 Third party services supported eCall (TPS-eCall) 34

9 Defences against attack (Security provisions) 35

10 Quality of service requirements 35

11 Test and conformance requirements 35

12 Marking, labelling and packaging 35

13 Declaration of patents and intellectual property 35

Annex A (normative) Table of timings 36

Bibliography 38