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English version

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

Systemes de transport intelligents - eSafety - eCall Protocoles d'application de haut niveau (HLAP) utilisant les réseaux à commutation de paquets IMS (Internet système multimédia)

Intelligente Verkehrssysteme - eSicherheit - Übergeordnete Anwendungsprotokolle (HLAP) für eCall unter Verwendung von IPbasierten Multimedia-Subsystemen (IMS) über paketvermittelte Netzwerke

This corrigendum becomes effective on 3 December 2025 for incorporation in the official English version of the EN and includes the Corrigendum 1 issued by CEN on 3 September 2025.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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

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Ref. No.: EN 17184:2024/AC:2025 E

Modifications from Corrigendum 1

1 Modification to 6.1, “General principle”

Reinsert Figure 1 so that it becomes visible in the PDF version.

2 Modification to 7.5, “MSD transfer for eCall using IMS over packet switched networks”

Reinsert Figure 5 so that it becomes visible in the PDF version.

3 Modification to 7.7.2, “Before session clear-down”

Reinsert Figure 6 so that it becomes visible in the PDF version.

Modifications in Corrigendum 2

4 Modifications to Clause 2, “Normative references”

Add the following reference:

“EN 16062, Intelligent transport systems - ESafety - eCall high level application requirements (HLAP) using GSM/UMTS circuit switched networks”.

Replace “EN 16072:2022” with “EN 16072:2025” in Clause 2 and throughout the text.

Replace:

“ETSI TS 122 003, Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Circuit Teleservices supported by a Public Land Mobile Network (PLMN) (3GPP TS 22.003) [Release 16 or later]”

with:

“ETSI TS 122 003, Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Circuit Teleservices supported by a Public Land Mobile Network (PLMN) (3GPP TS 22.003) [Release 14 or later for eCall over 4G; Release 16 or later for eCall over 5G]”

Replace:

“ETSI TS 122 011, Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Service accessibility (3GPP TS 22.011) [Release 16 or later]”

with:

“ETSI TS 122 011, Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Service accessibility (3GPP TS 22.011) [Release 14 or later for eCall over 4G; Release 16 or later for eCall over 5G]”

Replace:

“ETSI TS 122 071, Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Location Services (LCS); Service description; Stage 1 (3GPP TS 22.071) [Release 16 or later]”

with:

“ETSI TS 122 071, *Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Location Services (LCS); Service description; Stage 1 (3GPP TS 22.071 [Release 14 or later for eCall over 4G; Release 16 or later for eCall over 5G]*”

Replace:

“ETSI TS 122 101, *Universal Mobile Telecommunications System (UMTS); LTE; Service aspects; Service principles (3GPP TS 22.101) [Release 16 or later]*”

with:

“ETSI TS 122 101, *Universal Mobile Telecommunications System (UMTS); LTE; Service aspects; Service principles (3GPP TS 22.101) [Release 14 or later for eCall over 4G; Release 16 or later for eCall over 5G]*”

Replace:

“ETSI TS 123 122, *Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Non-Access-Stratum (NAS) functions related to Mobile Station (MS) in idle mode (3GPP TS 23.122) [Release 16 or later]*”

with:

“ETSI TS 123 122, *Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Non-Access-Stratum (NAS) functions related to Mobile Station (MS) in idle mode (3GPP TS 23.122) [Release 14 or later for eCall over 4G; Release 16 or later for eCall over 5G]*”

Replace:

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

with:

“ETSI TS 123 167, *Universal Mobile Telecommunications System (UMTS); LTE; IP Multimedia Subsystem (IMS) emergency sessions (3GPP TS 23.167) [Release 14 or later for eCall over 4G; Release 16 or later for eCall over 5G]*”

Replace:

“ETSI TS 123 216, *Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Single Radio Voice Call Continuity (SRVCC); Stage 2 (3GPP TS 23.216) [Release 16 or later]*”

with:

“ETSI TS 123 216, *Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Single Radio Voice Call Continuity (SRVCC); Stage 2 (3GPP TS 23.216) [Release 14 or later for eCall over 4G; Release 16 or later for eCall over 5G]*”

Replace:

“ETSI TS 123 401, *LTE; General Packet Radio Service (GPRS) enhancements for Evolved Universal Terrestrial Radio Access Network (E-UTRAN) access (3GPP TS 23.401) [Release 16 or later]*”

with:

“ETSI TS 123 401, *LTE; General Packet Radio Service (GPRS) enhancements for Evolved Universal Terrestrial Radio Access Network (E-UTRAN) access (3GPP TS 23.401) [Release 14 or later]*”

Replace:

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

with:

“ETSI TS 124 229, Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3 (3GPP TS 24.229) [Release 14 or later for eCall over 4G; Release 16 or later for eCall over 5G]”

Replace:

“ETSI TS 124 301, Universal Mobile Telecommunications System (UMTS); LTE; Non-Access-Stratum (NAS) protocol for Evolved Packet System (EPS); Stage 3 (3GPP TS 24.301) [Release 16 or later]”

with:

“ETSI TS 124 301, Universal Mobile Telecommunications System (UMTS); LTE; Non-Access-Stratum (NAS) protocol for Evolved Packet System (EPS); Stage 3 (3GPP TS 24.301) [Release 14 or later]”

Replace:

“ETSI TS 131 102, Universal Mobile Telecommunications System (UMTS); LTE; Characteristics of the Universal Subscriber Identity Module (USIM) application (3GPP TS 31.102) [Release 16 or later]”

with:

“ETSI TS 131 102, Universal Mobile Telecommunications System (UMTS); LTE; Characteristics of the Universal Subscriber Identity Module (USIM) application (3GPP TS 31.102) [Release 14 or later for eCall over 4G; Release 16 or later for eCall over 5G]”

Replace:

“ETSI TS 133 203, Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; 3G security; Access security for IP-based services (3GPP TS 33.203) [Release 16 or later]”

with:

“ETSI TS 133 203, Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; 3G security; Access security for IP-based services (3GPP TS 33.203) [Release 14 or later for eCall over 4G; Release 16 or later for eCall over 5G]”

Replace:

“ETSI TS 136 331, LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification (3GPP TS 36.331) [Release 16 or later]”

with:

“ETSI TS 136 331, LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification (3GPP TS 36.331) [Release 14 or later]”

5 Modification to 7.1.1, "General"

Replace:

"The IVS responsible for the *eCall* system network access device (NAD) shall conform in all respects to the applicable ETSI specifications and in particular to the requirements specified in ETSI TS 123 122, ETSI TS 123 167, ETSI TS 123 401, ETSI TS 123 501, ETSI TS 124 229, ETSI TS 124 301, ETSI TS 124 501, ETSI TS 136 331, ETSI TS 131 102, ETSI TS 123 216 and ETSI TS 138 331 and utilized as specified herein."

with:

"The IVS responsible for the *eCall* system network access device (NAD) shall conform to the applicable parts of the relevant ETSI specifications and in particular to the requirements specified in ETSI TS 123 122, ETSI TS 123 167, ETSI TS 123 401 (only applicable for 4G), ETSI TS 123 501 (only applicable for 5G), ETSI TS 124 229, ETSI TS 124 301 (only applicable for 4G), ETSI TS 124 501 (only applicable for 5G), ETSI TS 136 331 (only applicable for 4G), ETSI TS 131 102, ETSI TS 123 216 and ETSI TS 138 331 (only applicable for 5G) and utilized as specified herein."

6 Modifications to 7.1.2, "Enabled IVS"

In the 2nd paragraph, replace "Release 16 or later" with "(Release 14 or later for eCall over 4G; Release 16 or later for eCall over 5G)".

Add the following at the end of subclause 7.1.2:

- An IVS supporting eCall using IMS shall support at least 4G according to ETSI Release 14 or later and shall comply with this document.
- An IVS supporting eCall using IMS over 4G and 5G shall support 4G according to ETSI Release 14 or later and 5G according to ETSI Release 16 or later and shall comply with this document.
- If an IVS supporting eCall using IMS claims to support CS access, then it shall comply with EN 16062, EN 17905 and this document."

7 Modifications to 7.1.4, "eCall-only IVS"

In the 1st paragraph, replace "(Release 16 or later)" with "(Release 14 or later for eCall over 4G; Release 16 or later for eCall over 5G)".

In the 4th paragraph, replace ", Release 16 or later —" with " (Release 14 or later for eCall over 4G; Release 16 or later for eCall over 5G)".

8 Modifications to 7.1.5, "ECL: eCall using IMS support indicator"

In the 1st paragraph, replace:

"ECL indicator of Release 16 or later of ETSI TS 122 101 and ETSI TS 123 401"

with:

"ECL indicator of ETSI TS 122 101 (Release 14 or later for eCall over 4G; Release 16 or later for eCall over 5G) and ETSI TS 123 401 (Release 14 or later)".

In the 2nd paragraph, replace "ETSI TS 123 401 Release 16 or later" with "ETSI TS 123 401 Release 14 or later".

9 Modifications to 7.4.5, "Establishment of an eCall using IMS over packet switched networks"

In the 1st paragraph, replace "ETSI TS 123 167 Release 16 or later" with "ETSI TS 123 167 (Release 14 or later for eCall over 4G; Release 16 or later for eCall over 5G)".

In the 5th paragraph, replace "ETSI TS 124 229 Release 16 or later" with "ETSI TS 124 229 (Release 14 or later for eCall over 4G; Release 16 or later for eCall over 5G)".

10 Modifications to 7.4.8, "Call rejection"

In the 3rd paragraph, replace "ETSI TS 124 229" with "ETSI TS 124 229 in Release 14 to Release 18" and delete "(immediately)".

Add the following new NOTE 1 above the current NOTE:

"NOTE 1 In Release 19 of ETSI TS 124 229 the expected IVS behaviour after call rejection with response code 6xx or 4xx (including an ACK for the MSD) will be aligned with the CEN requirement."

Renumber "NOTE" as "NOTE 2" and replace "Domain selection is not possible..." with "Domain selection to a CS domain is not possible..."

Replace the last paragraph:

"Otherwise, and unless 7.6.4 applies, the IVS shall consider the eCall attempt to have failed (see 7.4.9)."

with:

"Otherwise the IVS shall consider the eCall attempt to have failed. All redial attempts from the IVS shall consider the requirements in 7.4.9."

11 Modification to 7.4.9, "Call failure"

Replace the 1st paragraph:

"In the event that the eCall fails completely, all redial attempts from the IVS shall be completed within 2 minutes as defined in EN 16072."

with:

"In the event of a call drop after receiving a 200 OK from the PSAP without a positive MSD acknowledgment, all redial attempts from the IVS shall be completed within 2 min as defined in EN 16072 as long as the IVS is not in limited service state. For other call failure cases or if the IVS is in limited service state, redial attempts may continue for more than 2 min."

In the 2nd paragraph, delete "(immediately)".

In the NOTE, replace "Domain selection is not possible..." with "Domain selection to a CS domain is not possible..."

12 Modification to 7.6.3, "Unsuccessful receipt by the PSAP of initial MSD"

Renumber "NOTE" as "NOTE 1".

In the 3rd paragraph, replace "ETSI TS 124 229" with "ETSI TS 124 229 in Release 14 to Release 18".

After the 3rd paragraph, add the following new NOTE 2:

"NOTE 2 In Release 19 of ETSI TS 124 229 the expected IVS behaviour after 200 OK including a negative ACK for the MSD will be aligned with the CEN requirement."

13 Modification to 7.7.3, "After session clear-down"

Add the following to the end of the NOTE:

“Release 19 of ETSI TS 124 229 will contain provisions to enable the IVS to authenticate that an incoming call is from a genuine PSAP. Those new provisions need to be supported by the PSAP, fixed line network operator, MNO and IVS. Until then, the PSAP will not be able to request the sending of a new/updated MSD, during PSAP call-back.”

14 Modification to 7.11, "PSAP call-back"

Replace the current NOTE 3:

“NOTE 3 The eCall using IMS over packet switched networks solution currently defined in ETSI TS 122 101, ETSI TS 123 167 and IETF RFC 8147 does not support authentication by an IVS that an incoming call is from a PSAP. A planned (future) Release of the ETSI IMS specification will make provision to enable the IVS to authenticate that an incoming call is from a genuine PSAP. Until then, the PSAP will not be able to request the sending of a new/updated MSD, during PSAP call-back.”

with the following:

“NOTE 3 The eCall using IMS over packet switched networks solution currently defined in ETSI TS 122 101, ETSI TS 123 167, ETSI TS 124 229 in Release 14 to Release 18 and IETF RFC 8147 does not support authentication by an IVS that an incoming call is from a PSAP. Release 19 of the ETSI IMS specification ETSI TS 124 229 will contain provisions to enable the IVS to authenticate that an incoming call is from a genuine PSAP. Those new provisions need to be supported by the PSAP, fixed line network operator, MNO and IVS. Until then, the PSAP will not be able to request the sending of a new/updated MSD, during PSAP call-back.”

15 Modifications to the Bibliography

Delete the following entry, as this reference has been moved to Clause 2:

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

Renumber remaining bibliographic entries accordingly.

Replace:

“ETSI TS 122 228, *Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; Service requirements for the Internet Protocol (IP) multimedia core network subsystem (IMS); Stage 1 (3GPP TS 22.228)* [Release 16 or later]”

with:

“ETSI TS 122 228, *Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; Service requirements for the Internet Protocol (IP) multimedia core network subsystem (IMS); Stage 1 (3GPP TS 22.228)* [Release 14 or later]”.

Replace:

“ETSI TS 123 228, *Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; IP Multimedia Subsystem (IMS); Stage 2 (3GPP TS 23.228)* [Release 16 or later]”

with:

“ETSI TS 123 228, *Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; IP Multimedia Subsystem (IMS); Stage 2 (3GPP TS 23.228)* [Release 14 or later for eCall over 4G; Release 16 or later for eCall over 5G]”.