



**TETRA and Critical Communications Evolution (TCCE);
Critical Communications Architecture;
Part 2: Critical Communications application
mobile to network interface architecture**

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ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C
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Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee TETRA and Critical Communications Evolution (TCCE).

The present document is part 2 of a multi-part deliverable covering TETRA and Critical Communications Evolution (TCCE); Critical Communications Architecture, as identified below:

ETSI TR 103 269-1: "Critical Communications Architecture Reference Model";

ETSI TS 103 269-2: "Critical Communications application mobile to network interface architecture";

ETSI TS 103 269-3: "Critical Communications application mobile to network interface specification".

Modal verbs terminology

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1 Scope

The present document presents an overview of the architecture for a generic mission critical service for use by a Critical Communications Application in network and terminal over a broadband IP bearer, with specific focus for LTE. The architecture is part of the overall Critical Communications Architecture Reference Model, described in ETSI TR 103 269-1 [i.11]. The overall architecture and services are described and the implementation of services equivalent to the existing narrowband technologies, for example those in TETRA and Tetrapol systems. Off network services are for future study and so are outside the scope of the present document.

2 References

2.1 Normative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

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NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

The following referenced documents are necessary for the application of the present document.

- [1] Void.
- [2] IETF RFC 3261: "SIP: Session Initiation Protocol".
- [3] IETF RFC 5389: "Session Traversal Utilities for NAT (STUN)".
- [4] IETF RFC 6665: "SIP-Specific Event Notification".
- [5] IETF RFC 3428: "Session Initiation Protocol (SIP) Extension for Instant Messaging".
- [6] IETF RFC 3903: "Session Initiation Protocol (SIP) Extension for Event State Publication".
- [7] IETF RFC 4566: "SDP: Session Description Protocol".
- [8] Void.
- [9] IETF RFC 791: "Internet Protocol (v4)".
- [10] IETF RFC 2460: "Internet Protocol, Version 6 (IPv6) Specification".
- [11] IETF RFC 793: "Transmission Control Protocol".
- [12] IETF RFC 4960: "Stream Control Transmission Protocol".
- [13] IETF RFC 5246: "The Transport Layer Security (TLS) Protocol Version 1.2".
- [14] IETF RFC 6347: "Datagram Transport Layer Security Version 1.2".
- [15] IETF RFC 768: "User Datagram Protocol".
- [16] IETF RFC 3550: "RTP: A Transport Protocol for Real-Time Applications".
- [17] IETF RFC 3711: "The Secure Real-time Transport Protocol (SRTP)".
- [18] IETF RFC 5245 (04-2010): "Interactive Connectivity Establishment (ICE): A Protocol for Network Address Translator (NAT) Traversal for Offer/Answer Protocols".