ATIS STANDARD

ATIS-1000065.2015(R2020)

Emergency Telecommunications Service (ETS) Evolved Packet Core (EPC) Network Element Requirements

AMERICAN NATIONAL STANDARD FOR TELECOMMUNICATIONS

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American National Standard for Telecommunications

Emergency Telecommunications Service (ETS) Evolved Packet Core (EPC) Network Element Requirements

Alliance for Telecommunications Industry Solutions

Approved February 20, 2015

American National Standard

Abstract

This standard specifies Emergency Telecommunications Service (ETS) requirements for an Evolved Packet System (EPS) consisting of the Evolved UMTS (Universal Mobile Telecommunications System) Terrestrial Radio Access Network (E-UTRAN) and the Evolved Packet Core (EPC) for support of NGN GETS Voice, NGN GETS Video, NGN GETS Guaranteed Bit Rate (GBR) Data, and NGN GETS Data Transport.

Foreword

The information contained in this Foreword is not part of this American National Standard (ANS) and has not been processed in accordance with ANSI's requirements for an ANS. As such, this Foreword may contain material that has not been subjected to public review or a consensus process. In addition, it does not contain requirements necessary for conformance to the Standard.

The Alliance for Telecommunication Industry Solutions (ATIS) serves the public through improved understanding between providers, customers, and manufacturers. The Packet Technologies and Systems Committee (PTSC) develops and recommends standards and technical reports related to services, architectures, and signaling, in addition to related subjects under consideration in other North American and international standards bodies. PTSC coordinates and develops standards and technical reports relevant to telecommunications networks in the U.S., reviews and prepares contributions on such matters for submission to U.S. ITU-T and U.S. ITU-R Study Groups or other standards organizations, and reviews for acceptability or per contra the positions of other countries in related standards development and takes or recommends appropriate actions.

ANSI guidelines specify two categories of requirements: mandatory and recommendation. The mandatory requirements are designated by the word SHALL and recommendations by the word SHOULD. Where both a mandatory requirement and a recommendation are specified for the same criterion, the recommendation represents a goal currently identifiable as having distinct compatibility or performance advantages.

Suggestions for improvement of this document are welcome. They should be sent to the Alliance for Telecommunications Industry Solutions, PTSC, 1200 G Street NW, Suite 500, Washington, DC 20005.

At the time of consensus on this document, PTSC, which was responsible for its development, had the following leadership:

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1 Scope

1.1 Scope

This standard specifies Emergency Telecommunications Service (ETS) requirements for an Evolved Packet System (EPS) consisting of the Evolved UMTS (Universal Mobile Telecommunications System) Terrestrial Radio Access Network (E-UTRAN) and the Evolved Packet Core (EPC) for support of:

- NGN GETS Voice,
- NGN GETS Video,
- NGN GETS Guaranteed Bit Rate (GBR) Data, and
- NGN GETS Data Transport.

This standard describes requirements for NGN GETS treatments for:

- E-UTRA access for an NGN GETS session initiated from, or terminated to the UE via the E-UTRA air interface and the E-UTRAN access network;
- Advance Priority-SPR and Advance Priority-HSS;
- Congestion control;
- Circuit Switched Fallback (CSFB) to UTRAN/GERAN;
- CSFB to 1xRTT;
- Intra-RAT E-UTRAN handover;
- Inter-RAT (IRAT) handover to/from the UMTS PS domain; and
- IRAT handover to/from eHRPD.

This standard assumes a 3GPP Release 10 system.

2 Normative References

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below.

3GPP[1]

[TS 22.011] TS 22.011, Service accessibility (Release 8).

[TS 23.203] TS 23.203, Policy and Charging Control Architecture (Release 10).

[1] These documents are available from the Third Generation Partnership Project (3GPP) at < http://www.3gpp.org/specs/specs.htm>.