

American National Standard for Telecommunications

**Emergency Telecommunications Service (ETS) Network
Element Requirements for IMS-based Next Generation
Network (NGN) Phase 2**

Alliance for Telecommunications Industry Solutions

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American National Standards Institute, Inc.

Abstract

This standard specifies Emergency Telecommunications Service (ETS) requirements for an Internet Protocol (IP) Multimedia Subsystem (IMS) Core Network for support of Next Generation Network (NGN) Government Emergency Telecommunications Service (GETS) Voice and NGN GETS Video. These requirements further refine the procedures defined in the ETS Phase 1 Network Element Requirements for NGN IMS based Deployments standard [ATIS-1000023.2013]. In addition, OA&M requirements are specified.

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.

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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 N.W., Suite 500, Washington, DC 20005.

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ETS Network Element Requirements for IMS-based NGN Phase 2

1 Scope

This standard specifies Emergency Telecommunications Service (ETS) requirements for an Internet Protocol (IP) Multimedia Subsystem (IMS) Core Network for support of Next Generation Network (NGN) Government Emergency Telecommunications Service (GETS) Voice and NGN GETS Video.

These requirements further refine the procedures defined in the ETS Phase 1 Network Element Requirements for NGN IMS based Deployments standard [ATIS-1000023.2013]. In addition, OA&M requirements are specified.

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.

3GPP¹

- [TS 23.002] 3GPP TS 23.002, Network Architecture (Release 11).
- [TS 23.203] 3GPP TS 23.203, Policy and Charging Control Architecture (Release 11).
- [TS 23.218] 3GPP TS 23.218, IP Multimedia (IM) Session Handling: IM call model; Stage 2 (Release 11).
- [TS 23.228] 3GPP TS 23.228, IP Multimedia Subsystem (IMS); Stage 2 (Release 11).
- [TS 24.229] 3GPP TS 24.229, Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3 (Release 11).
- [TS 29.212] 3GPP TS 29.212, Policy and charging control over Gx reference point (Release 11).
- [TS 29.213] 3GPP TS 29.213, Policy and charging control signalling flows and Quality of Service (QoS) parameter mapping (Release 11).
- [TS 29.214] 3GPP TS 29.214, Policy and charging control over Rx reference point (Release 11).
- [TS 29.215] 3GPP TS 29.215, Policy and Charging Control (PCC) over S9 reference point; Stage 3 (Release 11).
- [TS 29.228] 3GPP TS 29.228, IP Multimedia (IM) Subsystem Cx and Dx Interfaces; Signalling flows and message contents (Release 11).
- [TS 29.229] 3GPP TS 29.229, Cx and Dx interfaces based on the Diameter protocol; Protocol details (Release 11).
- [TS 29.230] 3GPP TS 29.230, Diameter applications; 3GPP specific codes and identifiers (Release 11).
- [TS 29.238] 3GPP TS 29.238, Interconnection Border Control Functions (IBCF) - Transition Gateway (TrGW) interface, Ix interface; Stage 3 (Release 11).

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