



ATIS-1000070

ATIS Standard on –

Emergency Telecommunications Service (ETS) Roadmap



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Published by

Alliance for Telecommunications Industry Solutions
1200 G Street, NW, Suite 500
Washington, DC 20005

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Emergency Telecommunications Service (ETS) Roadmap

Alliance for Telecommunications Industry Solutions

Approved August 24, 2016

Abstract

This Technical Report provides a roadmap view of the subtending suite of ATIS standards, technical reports, and requirements documents showing the applicability of particular standard specifications in the context of enabling deployment of the needed National Security/Emergency Preparedness (NS/EP) priority related functions and capabilities supporting end-to-end priority communications in Next Generation Networks (NGNs). The ATIS set of standards includes national specific applications of 3rd Generation Partnership Project (3GPP), Internet Engineering Task Force (IETF), and International Telecommunications Union – Telecommunications (ITU-T) specifications for the support of ETS. This document includes a roadmap of the dependent 3GPP, IETF, and ITU-T specifications and standards.

Foreword

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.

The mandatory requirements are designated by the word *shall* and recommendations by the word *should*. Where both 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. The word *may* denotes a optional capability that could augment the standard. The standard is fully functional without the incorporation of this optional capability.

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:

M. Dolly, PTSC Chair (AT&T)

V. Shaikh, PTSC Vice-Chair (Applied Communication Sciences)

Ray P. Singh, Technical Editor (Applied Communication Sciences)

Greg Pollini, Technical Editor (Applied Communication Sciences)

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1 Scope, Purpose, & Application

1.1 Scope

There are numerous industry standards, technical reports, and requirements documents addressing various aspects for Emergency Telecommunications Service (ETS) support in Next Generation Networks (NGNs). For an end-to-end National Security/Emergency Preparedness (NS/EP) priority communication session in an NGN, priority mechanisms need to be supported over various interfaces and protocols and priority processing needs to be supported within functional elements spanning across various network domains (e.g., wireless access, fixed access, and core network segments), across network boundaries, and within Internet Protocol (IP) transport networks. The deployment of NS/EP priority services (e.g., voice) requires applicability of the particular standard specification in context to the specific interface and protocol, functional element, network domains (e.g., wireless access, fixed access, and core network segments), for the support of NS/EP priority communications in the end-to-end NGN infrastructure.

This Technical Report (TR) provides a roadmap view of the subtending suite of ATIS standards, technical reports, and requirements documents showing the applicability of particular standard specifications in the context of enabling deployment of the needed NS/EP priority related functions and capabilities supporting end-to-end priority communications in NGNs. The ATIS set of standards includes a number of specific applications of 3rd Generation Partnership Project (3GPP), Internet Engineering Task Force (IETF), and International Telecommunications Union – Telecommunications (ITU-T) specifications for the support of ETS. For example, the ATIS standards further define the national specific aspects of the 3GPP protocols and capabilities supporting ETS. This TR includes a roadmap of the dependent 3GPP, IETF, and ITU-T specifications and standards.

1.2 Purpose

The purpose of this TR is to consolidate various ETS related specifications and provide a roadmap view to enable ETS deployment in NGNs. The objective is to provide a roadmap view showing the applicability of particular specifications to specific network layers, network procedure, interfaces or network element functional capabilities, and segments making up the end-to-end NGN infrastructure.

1.3 Application

This document is applicable to the support of NS/EP priority services (e.g., Government Emergency Telecommunications Service (GETS), Wireless Priority Service (WPS), and NGN Priority Services) in the public NGN infrastructure.

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.