



ATIS-0700030

ATIS Standard on -

Real Time Text End-to-End Service Description Specification



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Published by

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

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Real Time Text End-to-End Service Description Specification

Alliance for Telecommunications Industry Solutions

Approved July 12, 2018

Abstract

This Standard defines the RTT end-to-end service behavior for the handling of Real Time Text (RTT) in support of the IP transition in order to facilitate a consistent use of RTT across multiple Commercial Mobile Service Providers (CMSPs).

Foreword

The Alliance for Telecommunication Industry Solutions (ATIS) serves the public through improved understanding between carriers, customers, and manufacturers. The Wireless Technologies and Systems Committee (WTSC) develops and recommends standards and technical reports related to wireless and/or mobile services and systems, including service descriptions and wireless technologies. WTSC develops and recommends positions on related subjects under consideration in other North American, regional, and international standards bodies.

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. The word may denotes an 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, WTSC 1200 G Street NW, Suite 500, Washington, DC 20005.

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

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- M. Younge, WTSC Vice Chair (T-Mobile)
- P. Musgrove, WTSC SN Chair (AT&T)
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The Systems & Networks subcommittee (SN) was responsible for the development of this document.

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1 Scope, Purpose, & Application

1.1 Scope

The scope of this Standard is limited to Real Time Text (RTT) service, implemented as specified in IETF RFC 4103 [Ref 4] and as described in ATIS-1000068 [Ref 2], for both emergency and non-emergency communications via Commercial Mobile Service Provider (CMSP) networks.

IP Multimedia Subsystem (IMS) service continuity of RTT (3GPP TS 23.237 [Ref 17]) is outside the scope of this Standard.

1.2 Purpose

The purpose of this Standard is to define the RTT end-to-end service behavior for RTT communication in an all Internet Protocol (IP) environment to facilitate a consistent use of RTT across multiple CMSPs.

1.3 Application

This Standard is applicable to CMSPs, CMSP network infrastructure vendors, mobile device manufacturers, emergency services vendors, and Public Safety Answering Point (PSAP) vendors.

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.

[Ref 1] FCC Doc-319386A, *Federal Communications Commission (FCC) Emergency Access Advisory Committee (EAAC) Report on TTY Transition*; March 2013.¹

[Ref 2] ATIS-1000068, *Technical Report on Support of TTY Service over IP using Global Text Telephony*.²

[Ref 3] TIA-825-A, *A Frequency Shift Keyed Modem for Use on the Public Switched Telephone Network*.³

[Ref 4] IETF RFC 4103, *RTP Payload for Text Conversion*.⁴

[Ref 5] FCC Doc-321705, *Federal Communications Commission (FCC) Emergency Access Advisory Committee (EAAC) Report on Procedures for Calls between TTY Users and NG9-1-1 PSAPs*; June 14, 2013.¹

[Ref 6] FCC Doc-321704, *Federal Communications Commission (FCC) Emergency Access Advisory Committee (EAAC) Report on Proposed Procedures for TTY as Text Terminal in Legacy PSAPs*; June 14, 2013.¹

¹ This document is available from the Federal Communications Commission. < <http://www.fcc.gov/> >

² This document is available from the Alliance for Telecommunications Industry Solutions (ATIS). < <http://www.atis.org> >

³ This document is available from the Telecommunications Industry Association. < <http://www.tiaonline.org> >

⁴ This document is available from the Internet Engineering Task Force (IETF). < <http://www.ietf.org> >