



ATIS-1000010.2006 (S2016)

**SUPPORT OF EMERGENCY TELECOMMUNICATIONS SERVICE (ETS)
IN IP NETWORKS**

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ATIS-1000010.2006, Support of Emergency Telecommunications Service (ETS) in IP Networks

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American National Standard for Telecommunications

**SUPPORT OF EMERGENCY TELECOMMUNICATIONS SERVICE (ETS)
IN IP NETWORKS**

Secretariat

Alliance for Telecommunications Industry Solutions

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American National Standards Institute, Inc.

Abstract

This document defines the procedures and capabilities required to support Emergency Telecommunications Service (ETS) within and between Internet Protocol (IP) based service provider networks.

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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American National Standard for Telecommunications –

Support of Emergency Telecommunications Service (ETS) in IP Networks

1 INTRODUCTION

This document defines the procedures and capabilities required to support Emergency Telecommunications Service (ETS) within and between Internet Protocol (IP) based service provider networks. It also includes:

- ◆ Procedures for interoperability/interworking between IP-based and existing circuit-switched wireline and wireless service provider networks;
- ◆ Basic (“GETS-like”) authentication mechanisms and procedures; and
- ◆ Security requirements.

ETS is a forward-looking service that requires priority treatment in the IP network infrastructure in support of National Security/Emergency Preparedness (NS/EP) communications. ETS has capabilities to increase the probability of successful completion of calls, sessions, or other communications initiated by government authorized users over the public network infrastructure. ETS also includes legacy circuit-switched NS/EP services such as Government Emergency Telecommunications Service (GETS) and Wireless Priority Service (WPS)¹.

This document includes end-to-end ETS call flows that illustrate calls originating and terminating on:

- ◆ IP access (e.g., cable or DSL);
- ◆ narrowband wireline access (e.g., POTS phone); and
- ◆ wireless access (e.g., GSM or CDMA phone);

that traverse through IP and circuit-switched Core Networks. A service description of ETS is contained in the ATIS Technical Report (TR), *Service Description of ETS* [ANSI-1000005]. The ETS and WPS procedures previously defined for circuit-switched wireline [ANSI-1000006.2005] and wireless [ANSI TIA-917, 3GPP TR 22.952] technologies, respectively, are not impacted by this document.

¹ TIA uses the term “Wireless Priority Service,” whereas 3GPP uses the term “Priority Service”.