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ATIS-1000055.2024

**Emergency Telecommunications Service (ETS):  
Core Network Security Requirements**

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## ATIS-1000055.2024, *Emergency Telecommunications Service (ETS): Core Network Security Requirements*

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ATIS-1000055.2024

American National Standard for Telecommunications

# Emergency Telecommunications Service (ETS): Core Network Security Requirements

Alliance for Telecommunications Industry Solutions

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American National Standards Institute, Inc.

## Abstract

The integrity, confidentiality, and availability of Emergency Telecommunication Service (ETS) in a multi-provider Next Generation Network (NGN) environment will depend on the security of each individual network involved in an end-to-end communication. To allow network provided security of end-to-end ETS communications in a multi-provider environment, intra-network domain and inter-network domain security requirements for ETS protection are needed. This standard provides a minimum set of common (i.e., independent of network type or technology) and core network security requirements for the protection of ETS in a multi-provider NGN environment.

## Foreword

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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 it approved this document, PTSC, which is responsible for the development of this Standard, had the following leadership:

- M. Dolly, PTSC Chair (AT&T)
- V. Shaikh, PTSC Vice Chair (Peraton Labs)
- M. Dolly, PTSC SAC Chair (AT&T)
- R. Singh, Technical Editor (Peraton Labs)

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American National Standard for Telecommunications–

# Emergency Telecommunications Service (ETS): Core Network Security Requirements

## 1 Scope, Purpose, & Application

### 1.1 Scope

The integrity, confidentiality, and availability of Emergency Telecommunication Service (ETS) in a multi-provider Next Generation Network (NGN) environment will depend on the security of each individual network involved in an end-to-end communication. To allow network provided security of end-to-end ETS communications in a multi-provider environment, intra-network domain and inter-network domain security requirements for ETS protection are needed. This standard provides minimum security requirements for the security protection of ETS in a multi-provider NGN environment.

The scope of this standard is common (i.e., requirements that are independent of network type or technology) and core network security requirements in the context of supporting ETS in a multi-provider NGN environment. The scope of the security requirements includes integrity, confidentiality, and availability protection for ETS communications within a network and across network boundaries (i.e., between different network domains).

### 1.2 Purpose

The purpose of this standard is to provide a minimum set of security requirements that can be used to facilitate the security protection of ETS communications across directly or indirectly interconnected networks. The requirements in this standard are intended to protect ETS applications and resources against security threats, including protection of the network infrastructure supporting the ETS applications.

Another purpose of this standard is to promote interoperability in a multi-network, multi-service provider, and multi-vendor environment.

### 1.3 Application

This standard is applicable to public networks supporting ETS. Private enterprise networks may also use this standard.

### 1.4 Relationship of Concepts & Terms

National Security/Emergency Preparedness Next Generation Network Priority Service (NS/EP NGN-PS), Legacy Government Emergency Telecommunication Service (GETS), and Wireless Priority Service (WPS) are all facets of the U.S.A. instantiation of the international standard for ETS [E.107]. The relationship of the terms is portrayed in Figure 1-1.