ATIS-1000059.2017(R2022)

Emergency Telecommunications Service Wireline Access Requirements

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American National Standard for Telecommunications

Emergency Telecommunications Service Wireline Access Requirements

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American National Standards Institute, Inc.

Abstract

This standard specifies Emergency Telecommunications Service (ETS) network element requirements for wireline access in support of ETS Voice and ETS Video. These requirements are based on the procedures defined in the ETS in IP Networks Phase 1 standard [ATIS-1000010]. In addition, Operations, Administration, Maintenance, and Provisioning (OAM&P) requirements are specified.

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 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, 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 and Technical Editor (Vencore Labs)

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ETS Wireline Access Requirements

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1.1 Scope

This standard specifies Emergency Telecommunications Service (ETS) network element requirements for wireline access in support of ETS Voice and ETS Video. These requirements are based on the procedures defined in the ETS in IP Networks Phase 1 standard [ATIS-1000010]. In addition, Operations, Administration, Maintenance, and Provisioning (OAM&P) requirements are specified.

This Standard defines network element requirements for the following wireline access technologies:

- Digital Subscriber Line (DSL)
- Fiber
- Cable
- Ethernet

1.2 Purpose

The purpose of this document is to specify network element requirements for wireline access networks in support of ETS. The wireline access technologies discussed in this document are Digital Subscriber Line (DSL), Fiber (Broadband and Ethernet Passive Optical Networks [PONs]), Cable, and Metro Ethernet Access Networks. This Standard is intended to provide requirements for vendors to use in developing ETS capabilities for their equipment and for Service Providers to use in developing and delivering ETS. In addition, the purpose of this document is to demonstrate that ETS is implementable and interoperable in a multi-vendor environment for various wireline access network deployments.

2 References

2.1 ANSI References[1]

[ATIS-1000010] ATIS-1000010, *Support of Emergency Telecommunications Service (ETS) in IP Networks*.

[ATIS-1000049] ATIS-1000049, *End-to-End NGN GETS Call Flows*.

[ATIS-1000056] ATIS-1000056, *Access Networks Architecture Technical Report*.

[ATIS-1000066] ATIS-1000066, *Emergency Telecommunications Service (ETS) Network Element Requirements for IMS-based Next Generation Network (NGN) Phase 2*.

[1] These documents are available from the Alliance for Telecommunications Industry Solutions (ATIS) at: < https://www.atis.org/docstore/default.aspx >.