ATIS-1000628.2000(S2020)

Emergency Calling Service

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ATIS-1000628.2000(S2020), *Emergency Calling Service*

Is an American National Standard developed by the **Signaling, Architecture, and Control (SAC)** Subcommittee under the **ATIS Packet Technologies and Systems Committee (PTSC)**.

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

T1.628-2000(S2020)

American National Standard
for Telecommunications –

Emergency Calling Service

Secretariat

Alliance for Telecommunications Industry Solutions

Approved May 19, 2000

American National Standards Institute, Inc.

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Published by

Alliance for Telecommunications Industry Solutions
1200 G. St., NW Washington, D.C. 20005

Printed in the United States of America

Contents

Foreword (This foreword is not part of American National Standard T1.628-2000.)

This standard specifies the protocol and procedures applicable for the support of Emergency Calling Service in an Integrated Services Digital Network (ISDN).

This standard was developed by Working Group T1S1.3 and T1S1.7 of Accredited Standards Committee T1 - Telecommunications.

Suggestions for improvement of this standard will be welcome. They should be sent to the Alliance for Telecommunications Industry Solutions, T1 Secretariat, 1200 G Street NW, Suite 500, Washington, DC, 20005.

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	James L. Eitel (Alt.)
US Telephone Association (USTA)	Vern Junkmann
	Donald G. Bender (Alt.)

Working Groups, T1S1.3 and T1S1.7 developed this standard. Over the course of its development, the following individuals participated in the Working Groups' discussions and made significant contributions to the standard:

Wesley Downum, Working Group Chair T1S1.3
Greg Ratta, Working Group Chair T1S1.7
S. Patch, T1S1.3 ISUP Convenor
S. Rengasami, Editor

D. Benadetto
J. Bond-Harris
D. Greene
J. Hilton
P. McCalmont
N. Sandesara
C. Smedberg
D. Vander Meiden
D. Whiteford

American National Standard
for Telecommunications -

Emergency Calling Service

1 Scope, purpose, and application

1.1 Scope and purpose

This standard specifies the capabilities required to support the passing of location and callback information associated with the calling user to a Public Safety Answering Point (PSAP) attendant, to provide network routing and transfer features associated with emergency service calls, and to deliver control indications (e.g., flashing display) to the PSAP attendant. Emergency Calling Service (ECS) allows emergency service calls to be completed through the network to an appropriate emergency service attendant, and to provide the PSAP attendant with location information (if available) regarding the calling user.

ECS also provides for priority routing of the call within the network so that even in times of network congestion, emergency calls should be able to complete to a PSAP attendant. It also allows for the transport and identification of emergency service calls without the use of dedicated facilities. In addition, the network provides additional capabilities (e.g. the transfer of location information) when the attendant conferences with, or transfers the call to, any other attendant in the emergency serving area.

Capabilities needed for supporting E9-1-1 Call Hold and Ringback are described in Clauses 4 and 5. However, there is no DSS1 or SS7 support for these capabilities at this time.

Finally, this document provides for the delivery of location information to a PSAP over a DSS1 interface. In addition, receipt of location information for calls originating from a DSS1 interface is addressed. An ECS call may originate from a wireline or wireless user.

1.2 Application

This standard is intended to supplement the basic call procedures described in:

- *American National Standard for Telecommunications - Signalling System no. 7 (SS7) - Integrated Services Digital Network (ISDN) user part*, T1.113.
- *American National Standard for Telecommunications - Integrated Services Digital Networks (ISDN) - Layer 3 Signaling Specification for Circuit Switched Bearer Services for Digital Subscriber Signaling System Number 1 (DSS1)*, T1.607.

ECS is applicable only to the speech and 3.1-kHz audio information transfer capabilities identified in T1.113 and T1.607.

2 Normative references

The following listed standards contain provisions which, through reference in this text, constitute provisions of this American National Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this American National Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below.

T1.113-1995, *Telecommunications - Signalling system no. 7 (SS7) - Integrated Services Digital Network (ISDN) user part* [1),2)]

[1)] This standard is currently undergoing the revision process. Please contact the secretariat for more information.

[2)] For electronic copies of some standards, visit ANSI's Electronic Standards Store (ESS) at www.ansi.org. For printed versions of all these standards, contact Global Engineering Documents, 15 Inverness Way East, Englewood, CO 80112-5704, (800) 854-7179.