



ATIS STANDARD

ATIS-1000628-2001(S2020)

**ECS –  
Connection and Ring Back Addendum**

**AMERICAN NATIONAL STANDARD FOR TELECOMMUNICATIONS**



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## ATIS-1000628.a.2001 (S2020), ECS – Connection and Ring Back Addendum

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

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**ATIS-1000628.a.2001(S2020)**

(Formerly T1.628a-2001; Supplement to T1.628-2000)

American National Standard for Telecommunications

**ECS -- Connection and Ring Back Addendum**

Secretariat

**Alliance for Telecommunications Industry Solutions**

Approved August 21, 2001

**American National Standards Institute, Inc.**

**Abstract**

This addendum to T1.628-2000 specifies the use of the Connection Hold network capability by the Emergency Calling Service (ECS) to support ECS call hold and ring back. This addendum also specifies the TCAP messages exchanged between a switching node routing ECS calls and a Selective Routing Database (SRDB) that contains information determining the PSAP that should receive the emergency calls originating from a given caller or calling location.

## 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.

Accredited Standards Committee T1, Telecommunications serves the public through improved understanding between carriers, customers, and manufacturers. Technical Subcommittee T1S1 of Committee T1 develops telecommunications 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.

ANSI guidelines specify two categories of requirements: mandatory and recommendation. 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.

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

This standard was processed and approved for submittal to ANSI by Accredited Standards Committee on Telecommunications, T1. Committee approval of the standard does not necessarily imply that all members voted for its approval.

Working Group T1S1.7 on Services, Architecture, and Control of Technical Subcommittee T1S1 on Services, Architectures, and Signaling, was responsible for the development of this standard.

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American National Standard  
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## ECS -- Connection and Ring Back Addendum

### 1 Scope, Purpose, and Application

This addendum to T1.628-2000 specifies the use of the Connection Hold network capability by the Emergency Calling Service (ECS) to support ECS call hold and ring back. This addendum also specifies the TCAP messages exchanged between a switching node routing ECS calls and a Selective Routing Database (SRDB) that contains information determining the PSAP that should receive the emergency calls originating from a given caller or calling location.

The Connection Hold Network Capability disables a calling user's capability to initiate release of a call. Connection hold also provides a mechanism to indicate that the calling user has requested disconnect (or reconnect) without initiating release procedures.

The procedures described in this addendum supplement the procedures in T1.628-2000, *American National Standard for Telecommunications—Emergency Calling Service*. In particular the procedures described here take precedence over normal call release procedures when ECS Call Hold is invoked.

The use of connection hold is restricted when the caller has an ISDN user-network interface. Due to existing provisions of the DSS1 protocol it is not possible to prevent an ISDN caller from disconnecting an active call. When call hold is applied to ECS calls originating from an ISDN user-network interface and the caller disconnects, the network will attempt to reconnect to the user's terminal in cases when the network has information that permits it to identify the end user's terminal.

A PSAP using an ISDN access can invoke the network to apply ring back to the caller's terminal using the protocol defined in this addendum.

Following the references clause, the remainder of this addendum specifies changes to the existing text of T1.628-2000 using ~~strikeout~~ to indicate deletions and underlining to indicate insertion.

### 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.

T1.628-2000, *Emergency Calling Service*.<sup>1</sup>

T1.666-1999, *Signalling System Number 7 (SS7)—Operator Services Network Capabilities*.<sup>1</sup>

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<sup>1</sup> This document is available from the Alliance for Telecommunications Industry Solutions, 1200 G Street N.W., Suite 500, Washington, DC 20005. <<http://www.atis.org>>