ATIS-1000620.1991(S2017)

Integrated Services Digital Network (ISDN) – Circuit-Mode Bearer Service Category Description

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ATIS-1000620.1991(R2012), Integrated Services Digital Network (ISDN) – Circuit Mode Bearer Service Category Description

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

ANSI®
T1.620-1991 (S2017)
includes supplement
ANSI T1.620a-1992

American National Standard
for Telecommunications –

Integrated Services Digital Network (ISDN) – Circuit-Mode Bearer Service Category Description

Secretariat

Exchange Carriers Standards Association

Approved December 19, 1991

American National Standards Institute, Inc.

Abstract

This standard explains the ISDN Circuit-Mode Bearer Services from the user's perspective. It covers on-demand circuit-mode 64-kbit/s services and on demand H_0, H_{10}, and H_{11} channels. This standard is based on the CCITT Recommendations I.220, I.230, and I.231 and applies to both ISDN Basic Rate Access and ISDN Primary Rate Access. It provides the service user with a description of what these services provide as well as possible options. This description also provides the basis for the division of functionality and subsequent development of standardized protocols to support this service.

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Foreword (This foreword is not part of American National Standard T1.620-1991.)

This standard explains the ISDN Circuit-Mode Bearer services from the user's perspective. The scope of this standard is limited to on-demand circuit-mode 64-kbit/s services and on-demand H_0, H_{10}, and H_{11} channels. This standard is based on the CCITT Recommendations I.220, I.230, and I.231. This standard does not specify the actual human interface to the end equipment being used to support the provision of the service. It does not show how the required functionality should be split between customer and network equipment. It also does not cover the protocol that will be necessary for implementing this service in a standard way.

This standard was developed over the past few years by Technical Subcommittee T1S1 of Accredited Standards Committee T1 – Telecommunications. Many of T1S1's participants are also active participants in similar activities of the CCITT.

This standard contains two informative annexes, which are not part of this standard. This standard also includes a supplement, designated ANSI T1.620a-1992, which contains new and updated information.

Suggestions for improvement of this standard will be welcome. They should be sent to the Exchange Carriers Standards Association, T1 Secretariat; 1200 G Street, NW, Washington, DC 20005.

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American National Standard
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Integrated Services Digital Network (ISDN) – Circuit-Mode Bearer Service Category Description

1 Scope, purpose, and application

1.1 Scope

This standard explains the ISDN Circuit-Mode bearer services from the user's perspective. The scope of this standard is limited to on-demand Circuit-Mode 64-kbit/s services and on-demand H_0, H_{10}, and H_{11} channels.

This standard is based on the CCITT Recommendations I.220, I.230, and I.231.[1)]

The first three Circuit-Mode services are those specified in *American National Standard for Telecommunications – Integrated services digital network – Minimal set of bearer services for the ISDN basic rate interface*, ANSI T1.604-1990 and *American National Standard for Telecommunications – Integral services digital network (ISDN) – Minimal set of bearer services for the ISDN primary rate interface*, ANSI T1.603-1990.

This standard does not specify the actual human interface to the end equipment being used to support the provision of the service. It does not show how the required functionality should be split between customer and network equipment. It also does not cover the protocol that will be necessary for implementing this service.

1.2 Purpose

This standard provides the service user with a description of what these services provide as well as possible options. This also provides the basis for the division of functionality and subsequent development of standardized protocols to support this service.

1.3 Application

This standard applies to an ISDN as described in the CCITT Recommendations of the I-series.

2 Normative references

The following 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.

ANSI T1.603-1990, *Telecommunications – Integrated services digital network (ISDN) – Minimal set of bearer services for the primary rate interface*

ANSI T1.604-1990, *Telecommunications – Integrated services digital network (ISDN) – Minimal set of bearer services for the basic rate interface*

CCITT Recommendation G.711, *Pulse code modulation (PCM) of voice frequencies* [2)]

CCITT Recommendation G.722, *7 kHz audio-coding within 64 kbit/s* [2)]

CCITT Recommendation G.725, *System aspects for the use of 7 kHz audio codec within 64 kbit/s* [2)]

CCITT Recommendation I.210, *Dynamic description of the service using graphic means – Step 1.3 of description method* [2)]

[1)] Differences between this standard and CCITT Recommendation I.231 are listed in Annex A.

[2)] Available from the American National Standards Institute, 11 West 42nd Street, New York, NY 10036.