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I.231.3

INTEGRATED SERVICES DIGITAL NETWORK (ISDN) SERVICE CAPABILITIES – BEARER SERVICES SUPPORTED BY AN ISDN

CIRCUIT-MODE BEARER SERVICE CATEGORIES – CIRCUIT-MODE 64 kbit/s, 8 kHz STRUCTURED BEARER SERVICE USABLE FOR 3.1 kHz AUDIO INFORMATION TRANSFER

ITU-T Recommendation I.231.3

(Extract from the *Blue Book*)

NOTES

1 ITU-T Recommendation I.231.3 was published in Fascicle III.7 of the *Blue Book*. This file is an extract from the *Blue Book*. While the presentation and layout of the text might be slightly different from the *Blue Book* version, the contents of the file are identical to the *Blue Book* version and copyright conditions remain unchanged (see below).

2 In this Recommendation, the expression “Administration” is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

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Recommendation I.231.3

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(Melbourne, 1988)

3 I.231.3 - Circuit-mode 64 kbit/s, 8 kHz structured bearer service category usable for 3.1 kHz audio information transfer

3.1 Definition

This bearer service category corresponds to the service which is currently offered in the PSTN. It provides for the transfer of speech and of 3.1 kHz bandwidth audio information such as voice-band data via modems and facsimile group 1, 2 and 3 information (Note). The digital signal at the S/T reference point shall conform to Recommendation G.711 (A-law or μ -law).

Connections provided for these services should offer the transfer capability for the information indicated above. (This means that the network may include speech processing techniques provided they are appropriately modified or functionally removed prior to non-speech information transfer.) The control of echo control devices, speech processing devices, etc., is only made by use of disabling tones (see Recommendation V.25). Bit integrity is not assured. The network may use analogue transmission.

All Recommendations for the transfer of speech information in the network apply to this bearer service category.

Note - The maximum modem bit rate that can be used by users in applications of this bearer service category depends on the modulation standard employed by the user and on the transmission performance within an Administration or between different Administrations. The extent of support is a matter concerning the network or agreed to bilaterally.

3.2 Description

3.2.1 General description

This circuit-mode bearer service category allows:

- two users (e.g. terminals, PABXs) in a point-to-point configuration to communicate via the ISDN using 3.1 kHz audio information encoding into 64 kbit/s digital signals over the B-channel, in both directions continuously and simultaneously for the duration of a call;
- three or more users in a multipoint configuration (refer to Recommendation I.254 for the supplementary service descriptions on Three-party Service and Conference Calling).

Tones and/or announcements to indicate the progress or otherwise of a call, are provided by the network.

3.2.2 Specific terminology

Retention timer: this timer specifies the amount of time that the network retains the call information of the original call upon encountering busy or being released. It is a network provider option. The value for this timer is greater than 15 seconds.