



ATIS-0100302.a.1992(R2006)

**Digital Processing of Voice-Band Signals Line Format for
32-kbit/s Adaptive Differential Pulse-Code Modulation
(ADPCM) (channel-control templates and robbed-bit
signaling alarm transmission)**

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ATIS-0100302.a.1992(R2006), *Digital Processing of Voice-Band Signals Line Format for 32-kbit/s Adaptive Differential Pulse-Code Modulation (ADPCM) (channel-control templates and robbed-bit signaling alarm transmission)*

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for telecommunications –

digital processing of voice-band signals –
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Purpose

This supplement addresses two oversights of ANSI T1.302-1989, *Digital Processing of Voice-Band Signals – Line format for 32-kbit/s Adaptive Differential Pulse-Code Modulation*. Clause 3 of ANSI T1.302-1989 describes the line format for transcoders using the bundle format but does not specify a line format for channels that are programmed to bypass the ADPCM algorithm and that are transmitted as digital or PCM data. Clause 5 of ANSI T1.302-1989 describes the line format for transcoders using robbed-bit signaling but does not specify a method for transmitting downstream alarms. The purpose of this supplement is to eliminate these oversights.

Channel control templates: This supplement specifies the delta channel format for applications requiring 64-kbit/s pass-through channels. This supplement also includes annex A, which contains 64 suggested channel-control templates, specifically, thirty-seven general-purpose channel-control templates, twenty-five channel-control templates for Integrated

Services Digital Network (ISDN) applications, as well as applications that use the old data port plug-ins, and two 768-kbit/s and 1536-kbit/s templates. These channel-control templates provide for the integration of voice, voice-band data, and digital data signals.

Alarm transmission: This supplement specifies the method by which downstream alarms received on streams X or Y are transmitted on stream Z when robbed-bit signaling is used.

Channel-control template additions

Add the following to the end of 3.1.2.4.1 starting with a new paragraph:

The delta channel format as shown in table 3 shall also apply to channel-control templates that contain 64-kbit/s channels. All 64-kbit/s channels shall occupy contiguous 32-kbit/s time-slots **2i-1** and **2i** in stream Z, where **i** is an integer in the range of 1 to 24 inclusive. Channel-control templates, that specify signaling in a bundle, shall use the last time-slot

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