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P.30

TELEPHONE TRANSMISSION QUALITY SUBSCRIBERS' LINES AND SETS

TRANSMISSION PERFORMANCE OF GROUP AUDIO TERMINALS (GATs)

ITU-T Recommendation P.30

(Extract from the *Blue Book*)

NOTES

1 ITU-T Recommendation P.30 was published in Volume V 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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TRANSMISSION PERFORMANCE OF GROUP AUDIO TERMINALS (GATs)

(Melbourne, 1988)

1 Introduction

Group Audio Terminals (GATs) are terminals which have been specifically designed to be used by several users.

GATs cover a wide range of products ranging from the hands-free telephone when it is used by several users, to the sophisticated teleconference studio.

The CCITT recommends that GATs satisfy the specifications¹ in this Recommendation.

GATs must also comply with Recommendation P.34 as far as loudness is concerned, when they are connected to the telephone network. If they use voice-activated circuits, Recommendation P.34 may also be applied. Such terminals are sensitive to the acoustics of the location where they are utilized and they may resort to sophisticated acoustical echo processing devices.

The first generation of GATs will operate mainly on 4-wire digital networks and will make use of the wideband (WB) speech coding algorithm specified in Recommendation G.722. Such terminals urgently need specifications that can be based on the present Recommendation.

A typical GAT configuration is represented in Figure 1/P.30.

Such a terminal includes one or several microphones, one or several loudspeakers, sending and receiving amplification. Optionally, it includes a sound-managing and mixing device to the loudspeakers and from the microphones, a coder-decoder for digital networks, a voice-activated gain processing device and an echo processing device.

The location where the GAT is to be used is very important. Several measurements defined in this Recommendation have to be made at the location where the GAT is to be used. These are referred to as “in situ” measurements. They are to be made with the full complement of equipment in the conference room, but with no conferees present.

The present Recommendation is divided into three parts:

- interconnection specifications,
- transmit specifications,
- near-end specifications.

¹ The specifications in this Recommendation are subject to future enhancement and therefore should be regarded as provisional.