



INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

R.35 *bis*

TELEGRAPHY

TELEGRAPH TRANSMISSION

50-BAUD WIDEBAND VFT SYSTEMS

ITU-T Recommendation R.35 *bis*

(Extract from the *Blue Book*)

NOTES

1 ITU-T Recommendation R.35 *bis* was published in Fascicle VII.1 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.

Recommendation R.35 bis

50-BAUD WIDEBAND VFT SYSTEMS

(Geneva, 1964)

The CCITT,

considering

(a) that Voice-frequency telegraph (VFT) systems standardized by the CCITT for 50-baud channels are described in Recommendations R.31 (for amplitude modulation) and R.35 (for frequency modulation). Systems that comply with these Recommendations are those normally recommended by the CCITT. However, it may sometimes be advisable to use a VFT system for a speed of 50 bauds in which the channels have wider spacing than in systems complying with Recommendations R.31 and R.35,

(b) that the use of channels with a spacing of more than 120 Hz for a modulation rate of 50 bauds offers certain advantages in the following cases:

- i) on links with not much traffic (which it is not intended to increase to more than 12 channels for a long time to come);
- ii) on links where channels are required to have less distortion than on channels established in accordance with Recommendations R.31 and R.35;
- iii) as far as maintenance is concerned, wideband equipment requires less attention,

(c) that in particular, if telephone-type circuits carrying VFT systems are unstable, the use of wideband channels together with frequency modulation is recommended,

(d) Moreover that, if systems are standardized so that only one modulation method is used, the cost of equipment should be lower.

unanimously declares the view

that when Administrations agree to set up a 50-baud VFT system with spacing of more than 120 Hz, the VFT equipment should have the following characteristics:

- 1) VFT systems for wideband 50-baud channels should be homogeneous systems using frequency modulation only;
- 2) equipment in conformity with Recommendation R.37 is recommended for this purpose.