



INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

R.75 *bis*

TELEGRAPHY

TELEGRAPH TRANSMISSION

**MAINTENANCE MEASUREMENTS
OF CHARACTER ERROR RATE
ON INTERNATIONAL SECTIONS
OF INTERNATIONAL TELEGRAPH CIRCUITS**

ITU-T Recommendation R.75 *bis*

(Extract from the *Blue Book*)

NOTES

1 ITU-T Recommendation R.75 *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.75 bis

**MAINTENANCE MEASUREMENTS OF CHARACTER ERROR RATE ON INTERNATIONAL
SECTIONS OF INTERNATIONAL TELEGRAPH CIRCUITS**

(Malaga-Torremolinos, 1984)

The CCITT,

in view of

Recommendations R.51 *bis* and R.54,

considering

(a) that, for the technical supervision of international telegraph circuits, it is necessary to make periodic character error rate measurements on their international sections when they are made up of two or more channels;

(b) that certain Administrations consider it desirable to have available apparatus for making simple measurements automatically and periodically, giving an indication of the performance rating and transmitting an alarm when this rating exceeds the limits permitted for automatic switched channels,

unanimously declares the view

(1) that it is desirable to make character error rate measurements after commissioning the transmission system and for maintenance purposes on the international sections of international telegraph circuits made up of at least two channels;

(2) that these measurements should be made at the nominal modulation rate of the circuit under test preferably with the standardized text specified in Recommendation R.51 *bis*;

(3) that it is desirable to define the effective net margin as follows:

- a) for regenerative equipment use the appropriate Recommendation,
- b) non-regenerative equipment, error rate tests should use a margin of no less than 40% and should be made in conjunction with distortion measurements.

Note – Recommendation R.54 gives an allowable character error rate of 3 per 100 000 for the complete circuit. The proportion of this character error rate allowable on the international section only is for further study.