INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

R.59

TELEGRAPHY

TELEGRAPH TRANSMISSION

INTERFACE REQUIREMENTS FOR 50-BAUD START - STOP TELEGRAPH TRANSMISSION IN THE MARITIME MOBILE SATELLITE SERVICE

ITU-T Recommendation R.59

(Extract from the *Blue Book*)

NOTES

1 ITU-T Recommendation R.59 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.59

INTERFACE REQUIREMENTS FOR 50-BAUD START-STOP TELEGRAPH TRANSMISSION IN THE MARITIME MOBILE SATELLITE SERVICE

(Geneva, 1980; amended at Malaga-Torremolinos, 1984)

The CCITT,

considering

(a) that proper interworking with the international telegraph services must be ensured;

(b) that the coast-earth station equipment will interface with the international terrestrial telegraph networks and will therefore need to conform to CCITT Recommendations where applicable;

(c) that the ship earth station will include a local end with its termination consisting of start-stop equipment using International Telegraph Alphabet No. 2;

(d) that corresponding requirements are given in CCIR Recommendation 553,

unanimously recommends

(1) that the coast earth station equipment interfacing with terrestrial telegraph channels should conform to Recommendation R.101 as applicable to 50-baud services:

a) for signals from the terrestrial network entering the coast earth station, the relevant points are given in Table 1/R.59;

b) for signals from the coast earth station entering the terrestrial network, the relevant points are given in Table 2/R.59;

(2) that the transmission characteristics of the ship earth station start-stop equipment should conform to Recommendation S.3 as applicable to 50-baud services,

TABLE 1/R.59

Parameter	Recommendation R.101
Input modulation rate	§ 2.1
Isolated character stop elements	§ 2.2
Minimum interval between start elements	§ 2.3
No restrictions on the use of combinations of International Telegraph Alphabet No. 2	§ 2.4
Effective net margin	§ 2.5
Minimum input start element duration	§ 2.6

TABLE 2/R.59

Parameter	Recommendation R.101
Output distortion	§ 3.1
Output modulation rate	§ 3.2
Minimum output stop element	§ 3.3

considering further

(e) that in the first generation INMARSAT system, telex characters are transmitted in synchronous channels using 6-unit frames in such a way that, due to speed differences between the on-board teleprinter and the satellite telex channel, periods of Z polarity equal to the duration of a telex character occasionally appear in the data stream;

(f) that this may cause difficulties when the ship earth station is operating towards automatic terminals, store-and-forward units. etc. in the international telex network,

recommends

(3) that, if practicable, future systems should be designed so that insertion of unnecessary periods of Z polarity is avoided when characters are to be retransmitted at cadence speed into the international telex network.