CCITT

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THE INTERNATIONAL TELEGRAPH AND TELEPHONE CONSULTATIVE COMMITTEE

SERIES F: NON-TELEPHONE TELECOMMUNICATION SERVICES

Telegraph and Mobile Services: Operations and Quality of Service – Message switching

USE OF VARIOUS SEQUENCES OF COMBINATIONS FOR SPECIAL PURPOSES

Reedition of CCITT Recommendation F.30 published in the Blue Book, Fascicle II.4 (1988)

NOTES

- 1 CCITT Recommendation F.30 was published in Fascicle II.4 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).
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Recommendation F.30

USE OF VARIOUS SEQUENCES OF COMBINATIONS FOR SPECIAL PURPOSES

The CCITT,

unanimously declares that

- (1) when it is necessary to provide for switching of telegrams to different routes in semi-automatic or fully automatic telegram retransmission systems, the beginning and ending of each telegram are identified by the insertion of start-of-message and end-of-message signals;
 - (2) the start-of-message signal consists of the sequence **ZCZC** in letter case;
 - (3) the end-of-message signal consists of the sequence NNNN, in letter case;
- (4) the equipment that recognizes the start-of-message and end-of-message signals may be designed to do so by searching only for the sequence of four combinations corresponding to **ZCZC** or **NNNN** respectively (i.e. combinations 26, 3, 26, 3 or 14, 14, 14 in International Telegraph Alphabet No. 2 regardless of whether they are in letter or figure case);
 - (5) Table 1/F.30 lists other sequences of combinations used for special purposes.

TABLE 1/F.30

D. C.	Sequence of combination	Printed position		Recommendation
Purpose of sequence		Letter case	Figure case	reference
Connection of reperforator (or equivalent device)	3 3 3 3	CCCC	::::	S.4
Disconnection of reperforator (or equivalent device)	6666	FFFF	Note 1	S.4
Suppression of delay signals	8888	нннн	Note 1	S.4, U.22
Ready for test	11 11 11 11	KKKK	((((R.79, R.79 bis
Switching a reader (or equivalent device) into circuit by remote control	11 12 11 12	KLKL	()()	S.4
End of message or enabling of delay signals	14 14 14 14	NNNN	,,,,	F.1, F.31, S.4, U.22
Change of alphabet	19 19 19 19	SSSS	,,,,	S.15
Error signal	24 24 24 24 24	XXXXX	/////	F.1 (C94)
Start of message	26 3 26 3	ZCZC	+: +:	F.1, F.31
End of input	26 26 26 26	ZZZZ	++++	F.200
Request for automatic advice of parties cleared prematurely during the broadcast call followed by call cleared	13 13 13 13 Note 3	MMMM Note 3	Note 2	S.4, U.44

Note 1 – As noted in Recommendation F.1, § C4, the figure case of combinations 6, 7 and 8 is available for the internal service of each Administration.

Note 2 – As noted in Recommendation U.44 this sequence is to be recognized in letter case only.

Note 3 – A minimum of 4 Ms would clear a telex broadcast call. The usage of a 5th or more Ms is a national matter.

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