Recommendation T/CS 34-01 (Innsbruck 1981)

ARRANGEMENTS OF PUSH-BUTTONS AND THE SYMBOLS FOR THEIR DESIGNATION

Recommendation proposed by Working Group T/WG 11 *"Switching and Signalling"* (CS)

Text of the Recommendation adopted by the "Telecommunications" Commission:

"The European Conference of Postal and Telecommunications Administrations,

considering

— that a signifiant number of member countries are progressively introducing push-button dialling in their national network and plan the implementation of new services;

— that those services include voice as well as non-voice services, and some are likely to be available only if the subscriber can use push-button dialling;

— that CEPT standardised push-button multifrequency signalling systems are available [1, 2] and that the CCITT has also issued a Recommendation on push-button dialling [3];

— that the characters, i.e. the letters, numbers and special symbols, used to designate the buttons and allocated to the signals involved in the user-to-network control operations are of fundamental importance, both for the standardisation of such control operations and for the development of the telephone network numbering plan;

— that the layout of the push-buttons on the keypad is a specially conspicuous feature of the terminal for most users and, therefore, requires particular attention when harmonising subscriber's terminal equipment,

recommends

to the members of the CEPT, that in the case of push-buttons used on telephone network terminal equipment, the arrangements of the push-buttons, the symbols for their designation and the definitions relating to their functions are in accordance with the specifications below."

1. **LAYOUT OF THE PUSH-BUTTONS**

    The preferred arrangement and designation of the push-buttons for the dialling keypad for the multifrequency push-button signalling system, in accordance with Recommendations T/CS 46-02 [1] and T/CS 46-03 [2], are shown in Figure 1 (34-01).

    $$
    \begin{array}{cccc}
    1 & 2 & 3 & A \\
    4 & 5 & 6 & B \\
    7 & 8 & 9 & C \\
    \star & 0 & \# & D
    \end{array}
    $$

    Figure 1 (T/CS 34-01). Arrangement
    and designation of the push-buttons for dialling.

    The arrangement and designation of buttons are further specified in CCITT Recommendation E.161 (Q.11) [3]. This Recommendation also deals with human factors' aspects of the arrangement relating to the number of buttons and consequent dialling errors.

    The left-hand 12 buttons are used for telephone purposes. The 4 buttons, A, B, C and D, are provided for special purposes such as data transmission or other services. The arrangement may be utilised with only 10 buttons, in which case the buttons designated ★, #, A, B, C and D will not be supplied, or with 12 buttons, in which case the buttons A, B, C and D will not be supplied.

2. **BUTTONS FOR SPECIAL PURPOSES**

    See Recommendation T/CS 20-09, *Register recall* [4]; this Section requires further study.

References

[1] Recommendation T/CS 46-02. *Multifrequency signalling system to be used for push-button telephones.*

[2] Recommendation T/CS 46-03. *Signalling system for push-button telephones combining basic multifrequency signalling with direct current signalling.*

[3] CCITT Recommendation E.161 (Q.11). *Arrangements of figures, letters and symbols on rotary dials and push-button telephone sets.*

[4] Recommendation T/CS 20-09. *Register recall.*