

4 Interface requirements at digital access points

- 4.1 Digital access points at 64 kbit/s should be operated in the contradirectional mode and should meet the interface requirements of § 1.2.3 of Recommendation G.703 [1].
- 4.2 Digital path access points, operated at 1544 kbit/s or 2048 kbit/s (or higher hierarchical bit rates) should meet the interface requirements of Recommendation G.703 [1].
- 4.3 Interface requirements for digital access points on circuits using an encoding technique other than PCM are under study by Study Group IV.

Reference

- [1] CCITT Recommendation, *Physical electrical characteristics of hierarchical digital interfaces*, Vol. III, Rec. G.703.

Recommendation M.570

CONSTITUTION OF THE CIRCUIT; PRELIMINARY EXCHANGE OF INFORMATION

1 As soon as it is decided to bring a new circuit into operation, the technical services of the terminal countries should agree upon the circuit control station, and the technical service of each transit country should advise the other technical services concerned of the name of the sub-control station chosen for its territory. If the circuit is routed in a direct group or block crossing a transit country without demodulation or demultiplexing, no sub-control station need be provided for the transit country. When a circuit is subjected to analogue-to-digital conversion using, for example, a transmultiplexer, the location of the transmultiplexer should be designated as circuit sub-control station.

Also the technical services of all the countries concerned should send to the technical service responsible for the circuit control station information which will be required for the preparation of the circuit routing form (see the Appendix I to this Recommendation) using the letter and number code on the form. The information for a circuit without audio sections will consist of the numbers of the groups or blocks used and the number of the channel in each group or block.

In the case of a both-way circuit, the circuit order of selection should be stated, including the method by which the International Switching Centre selects circuits (i.e., sequentially by circuit, fully randomly or sequentially by block of circuits but randomly within the block, etc.).

When the circuit is assigned its designation (according to Recommendation M.140, § 1), the Administration with control station responsibility will assemble the necessary technical and operational information. This should be entered into the list of Related Information (as defined in Recommendation M.140, § 2) which consists of the items shown in Annex A.

2 Exchange of information

The information should preferably be sent by telex and the examples below show typical telex messages concerning the provision of Bucuresti-London 1 when the circuit is analogue, digital or mixed analogue/digital.

This method using the telex services enables agreement on routing details to be obtained quickly and also enables circuit routing forms to be completed by the technical services responsible for the circuit control stations as soon as a circuit is put into service or rearranged.

Example I — Telex message from the technical services of the United Kingdom to the technical services of the Federal Republic of Germany, Austria, Hungary and Roumania for an analogue circuit:

NETWORK CONTROL DIVISION BTI LONDON TO FTZ DARMSTADT
GENTEL WIEN
GENTEL BUDAPEST
GENTEL BUCUREȘTI

OUR REF.

PROPOSE PROVISION OF BUCUREȘTI/A1—LONDON/M B1
USING FRANKFURT—LONDON 1201/9 SIGNALLING 500/20
GRATEFUL FOR YOUR AGREEMENT OR COUNTER PROPOSALS. REGARDS.

Example II — Telex message from the technical services of the Federal Republic of Germany in reply to telex in example I:

FTZ SCHALT DMST A NETWORK CONTROL DIVISION BTI LONDON

10 APR

YOUR REF.

OUR REF.

2 = FEDERAL REPUBLIC OF GERMANY 3—BUCUREȘTI—LONDON 1

5 = FRANKFURT/MAIN

A = FFT — L 1201/9 B = 840

A = FFT — WIEN 1201/11 B = 740

REGARDS.

COPIES TO WIEN, BUDAPEST, BUCUREȘTI.

Similar messages could be used for a digital circuit. The channel to be used then could be, for example, Frankfurt—London 30N003/22.

Example III — Telex message from the technical services of the United Kingdom to the technical services of the Federal Republic of Germany, Austria, Hungary, and Roumania for a mixed analogue/digital circuit using a transmultiplexer at Frankfurt:

NETWORK CONTROL DIVISION BTI LONDON TO FTZ DARMSTADT
GENTEL WIEN
GENTEL BUDAPEST
GENTEL BUCUREȘTI

OUR REF.

PROPOSE PROVISION OF BUCUREȘTI—LONDON 1
USING FRANKFURT—LONDON 30NC004/7 SIGNALLING SYSTEM No. 5
GRATEFUL FOR YOUR AGREEMENT OR COUNTER PROPOSALS. REGARDS.