



INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

M.729

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

**MAINTENANCE:
INTERNATIONAL TELEPHONE CIRCUITS**

**ORGANIZATION OF THE MAINTENANCE
OF INTERNATIONAL PUBLIC
SWITCHED TELEPHONE CIRCUITS
USED FOR DATA TRANSMISSION**

ITU-T Recommendation M.729

(Extract from the *Blue Book*)

NOTES

1 ITU-T Recommendation M.729 was published in Fascicle IV.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.

**ORGANIZATION OF THE MAINTENANCE OF INTERNATIONAL PUBLIC
SWITCHED TELEPHONE CIRCUITS USED FOR DATA TRANSMISSION**

1 General

1.1 Data transmissions may be made over the public switched telephone network in a manner similar to voice transmissions. Such data calls, while expected in most cases to be satisfactory, cannot always be assured success in view of the variety of routing and transmission characteristics that may be found in national extensions between international switching centers and user stations.

1.2 As the exact configuration of an international call is essentially impossible to determine without an extensive and complicated tracing process, some means must be specified to enable each Administration to investigate, as it considers necessary, reports of data transmission difficulties.

2 Fault investigations and maintenance

2.1 Each country agreeing to the transmission of data over the public switched telephone network shall set up a Data Coordinating Point (DCP)¹⁾. This point:

- shall be the contact point between Administrations for referring data transmission difficulties for investigation in respective national networks;
- shall be the point to undertake discussions and agree on a course of action to be taken on public telephone network circuits regarding data transmission difficulties. It should be noted that agreement may be reached to take no actions regarding the international circuits;
- shall initiate any actions related to national network extensions in accordance with its national practices and procedures.

2.2 Fault investigations undertaken should be on the basis of the transmission requirements of public telephone calls. Such investigations, while possibly initiated by a DCP, will be carried out by the maintenance organization (Recommendation M.710) according to standards defined by Recommendation M.580, etc.

2.3 Transmission tests (*fault location or scheduled routine measurements*) between subscriber locations, that is, on an end-to-end basis, are not expected to be made. Considering routing complexities and the low probability of duplicating an exact connection, such end-to-end tests would not necessarily be meaningful and would be very difficult to coordinate. However, if end-to-end tests are deemed to be essential by an Administration, then such tests shall be implemented in accordance with agreements reached by the respective DCPs.

2.4 Routine maintenance measurements will be accomplished according to agreements reached in conformity with Recommendation M.605.

¹⁾ The term “point” is used in the same sense as in the M.700 series of Recommendation – see particularly Recommendations M.710.