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MAINTENANCE: INTERNATIONAL TELEPHONE CIRCUITS

PERFORMANCE MONITORING ON INTERNATIONAL TRANSMISSION SYSTEMS AND EQUIPMENT

ITU-T Recommendation M.710

(Extract from the *Blue Book*)

NOTES

- 1 ITU-T Recommendation M.710 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.

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**GENERAL MAINTENANCE ORGANIZATION¹⁾ FOR THE INTERNATIONAL
AUTOMATIC AND SEMI-AUTOMATIC TELEPHONE SERVICE**

1 General

To ensure satisfactory service quality in the international automatic and semi-automatic telephone service, it is necessary to have an organization which can use the techniques recommended for achieving this. The organizational elements defined in § 2 below relate to the maintenance of the different component parts of the international automatic network and are intended to cover wholly analogue networks and networks provided by a mixture of analogue and digital systems (switching and transmission). Administrations are requested to apply these recommendations in order to obtain satisfactory service quality.

The organization for international network management is specified in Recommendation E.413 [1], but it has been recognized that many common points exist between maintenance and network management activities. Therefore, it must be noted that, although the general maintenance organization and the network management organization are separately specified, it is not intended that separate organizations be established unless so desired by Administrations.

2 Maintenance organization

2.1 Basic elements and their functions

Cooperation in the maintenance of the international automatic and semi-automatic telephone service should be based on an organization which comprises all of the following basic elements in each country - each element representing a set of functions:

2.1.1 *Fault report point (circuit)*, which accepts and assigns for clearance all faults relating to one, or more, specifically identified circuits.

2.1.2 *Fault report point (network)²⁾*, which accepts and assigns for clearance all faults that, when reported, are not identified with specific circuits or a specific international centre. This should include all switching difficulties.

2.1.3 *Testing point (transmission)*, which performs transmission testing on international circuits for lining-up purposes, on a routine basis, and in case of reported faults.

2.1.4 *Testing point (line signalling)*, which performs testing of line signalling on international circuits, employing channel associated signalling, for setting-up purposes, on a routine basis, and in case of reported faults.

Note – Testing line signalling is not relevant to Signalling System No. 6. Maintenance organization aspects of Signalling System No. 6 are dealt with in Recommendation M.762 while signalling tests are dealt with in Recommendation M.732.

2.1.5 *Testing point (switching and interregister signalling)*, which performs testing of switching and interregister signalling on international equipment for setting-up purposes, on a routine basis, or in case of reported faults.

2.1.6 *Network analysis point²⁾*, which receives information on service quality, and faults not identified with specific circuits. It carries out the analysis of this information to investigate the problems involved. It acts as a single point of contact for general enquiries concerning the maintenance of the international telephone network.

2.1.7 *System availability information point*, which collects and disseminates information concerning the non-availability of telecommunications systems affecting the international automatic and semi-automatic telephone service.

2.1.8 *Circuit control station*, which is responsible for the satisfactory operation of the international circuits that it controls.

¹⁾ The phrase *general maintenance organization* does not necessarily relate to a specific organizational structure in any particular Administration.

²⁾ The use of the word *network* in this and subsequent Recommendations, refers to the public telephone network. This does not restrict the combination of any element with other maintenance units which have functions dedicated to services not noted herein.