



INTERNATIONAL TELECOMMUNICATION UNION

**ITU-T**

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TELECOMMUNICATION  
STANDARDIZATION SECTOR  
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**MAINTENANCE:**

**INTERNATIONAL TELEPHONE CIRCUITS**

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**RESTORATION CONTROL POINT**

**ITU-T Recommendation M.725**

(Extract from the *Blue Book*)

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## NOTES

1 ITU-T Recommendation M.725 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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## **RESTORATION CONTROL POINT**

### **1 Definition of restoration control point (RCP)**

The restoration control point (RCP) is an element within the general maintenance organization for the international telecommunication services. It initiates and coordinates service restoration activities in case of failures or planned outages of transmission systems in accordance with plans and *ad hoc* arrangements agreed by the technical services of the Administrations concerned.

Since two or more RCPs are involved in agreed restoration plans, it is practical to nominate one RCP as the Overall RCP which then initiates and controls implementation of the plan. The additional responsibilities and functions of an Overall RCP are given in § 3 below.

### **2 Responsibilities and functions**

The restoration control point (RCP) is responsible for the following set of functions:

- 2.1 Initiating the implementation of a restoration plan and *ad hoc* arrangements with the other stations involved within its Administration's boundaries.
- 2.2 Monitoring the implementation of the restoration plan.
- 2.3 Coordinating the restoration activities of the repeater stations and other stations involved within its Administration's boundaries.
- 2.4 Liaising with restoration control points of other Administrations as necessary and agreeing the times of events with them.
- 2.5 Exchanging information with the network management (implementation and control point) (see Recommendation E.413 [1]) for coordination purposes as appropriate.
- 2.6 Monitoring and coordinating the return to normal service conditions after the fault has been cleared or the planned work has been finished.
- 2.7 Keeping, throughout the period during which the restoration and the return to normal conditions is executed, an accurate log of events, including any circuit, channel, group, supergroup, etc., or baseband patching which takes place.
- 2.8 Requesting and receiving reports from other RCPs and disseminating this information within its own Administration as required.
- 2.9 Reporting the events to the responsible authorities of its Administration as desired and advising the system availability information point about the progress of restoration.
- 2.10 Sending a final restoration report, after the return to normal, containing all relevant data (including agreed times) for accounting purposes to the responsible authorities within its Administration.
- 2.11 If no restoration plan exists or, for some reason, an existing plan cannot be implemented, advising the responsible authorities in its own Administration and suggesting suitable *ad hoc* arrangements in the light of the information available.

### **3 Additional responsibilities of an overall RCP**

The responsibilities of an overall RCP are much the same as an ordinary RCP but with additional responsibilities as follows:

- 3.1 Initiating the implementation of a restoration plan with other RCPs concerned.
- 3.2 Requesting and receiving reports from other RCPs and disseminating this information as necessary.
- 3.3 Coordinating and controlling all restoration activities including the return to normal conditions.

#### **4 Facilities**

The restoration control point should be provided with the following facilities:

4.1 Appropriate communication facilities in order to assume its responsibilities.

4.2 Access to information appropriate to its functions and this includes:

- a) status of relevant international transmission systems;
- b) current restoration plans;
- c) list of the sections of border-crossing transmission traffic routes;
- d) routing information for international group, supergroup, etc., links;
- e) inventory of spare transmission facilities, in its own and neighbouring countries, lending themselves to restoration.

#### **Reference**

[1] CCITT Recommendation *International network management - Planning*, Vol. II, Rec. E.413.