



INTERNATIONAL TELECOMMUNICATION UNION

**ITU-T**

TELECOMMUNICATION  
STANDARDIZATION SECTOR  
OF ITU

**M.15**

**MAINTENANCE: INTRODUCTION  
AND GENERAL PRINCIPLES**

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**MAINTENANCE CONSIDERATIONS  
FOR NEW SYSTEMS**

**ITU-T Recommendation M.15**

(Extract from the *Blue Book*)

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## NOTES

1 ITU-T Recommendation M.15 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.

## **Recommendation M.15**

### **MAINTENANCE CONSIDERATIONS FOR NEW SYSTEMS**

#### **1 General**

To ensure that new systems are implemented so as to permit compatible international operation and maintenance in the most effective manner, the following guiding principles are indicated.

#### **2 Principles**

2.1 When a new system is being studied, early consideration should be given to operational and maintenance requirements.

2.2 The maintenance organization and maintenance facilities (including test equipment) should be considered early enough to ensure their availability when the new system is introduced.

2.3 In order to reduce total (lifetime) costs and to improve the efficiency of maintenance, new systems should be provided with internal supervision and fault localization functions. Such functions reduce the number and type of external test equipment to a minimum, and make it possible to omit most external routine tests.

2.4 Where existing maintenance procedures, for example fault reporting, are not appropriate, alternative procedures should be considered early enough to ensure their application when the new system is introduced. However, any new procedures should consider established maintenance principles accepted by the CCITT.