



INTERNATIONAL TELECOMMUNICATION UNION

# ITU-T

TELECOMMUNICATION  
STANDARDIZATION SECTOR  
OF ITU

# M.3207.1

(05/96)

**SERIES M: MAINTENANCE: INTERNATIONAL  
TRANSMISSION SYSTEMS, TELEPHONE CIRCUITS,  
TELEGRAPHY, FACSIMILE AND LEASED CIRCUITS**

**Telecommunications management network**

---

**TMN management service: maintenance  
aspects of B-ISDN management**

**ITU-T Recommendation M.3207.1**

(Previously «CCITT Recommendation»)

---

## FOREWORD

The ITU-T (Telecommunication Standardization Sector) is a permanent organ of the International Telecommunication Union (ITU). The ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

The World Telecommunication Standardization Conference (WTSC), which meets every four years, establishes the topics for study by the ITU-T Study Groups which, in their turn, produce Recommendations on these topics.

The approval of Recommendations by the Members of the ITU-T is covered by the procedure laid down in WTSC Resolution No. 1 (Helsinki, March 1-12, 1993).

ITU-T Recommendation M.3207.1 was prepared by ITU-T Study Group 4 (1993-1996) and was approved under the WTSC Resolution No. 1 procedure on the 12th of May 1996.

---

## NOTE

In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

© ITU 1996

All rights reserved. No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the ITU.

## CONTENTS

|                                                          | <i>Page</i> |
|----------------------------------------------------------|-------------|
| 1 Scope .....                                            | 1           |
| 2 References .....                                       | 1           |
| 3 Abbreviations .....                                    | 1           |
| 4 TMN management service description based on GDMS ..... | 2           |
| 4.1 Management service description .....                 | 2           |
| 4.2 Management goals .....                               | 2           |
| 4.3 Management context description .....                 | 2           |
| 4.4 Architecture .....                                   | 9           |

## SUMMARY

This Recommendation describes the TMN management service for the maintenance aspect of B-ISDN management with using GDMS (Guideline for the Definition of TMN Management Services).

## KEYWORDS

B-ISDN, Telecommunications Management Network (TMN), TMN management service.

**Recommendation M.3207.1****TMN MANAGEMENT SERVICE: MAINTENANCE ASPECTS  
OF B-ISDN MANAGEMENT***(Geneva, 1996)***1 Scope**

This Recommendation describes the TMN management service for the maintenance aspect of B-ISDN management.

**2 References**

The following Recommendations and other references contain provisions which, through reference in this text, constitute provisions of this Recommendation. At the time of publication, the editions indicated were valid. All Recommendations and other references are subject to revision: all users of this Recommendation are therefore encouraged to investigate the possibility of applying the most recent edition of the Recommendations and other references listed below. A list of the currently valid ITU-T Recommendations is regularly published.

- [1] ITU-T Recommendation M.3610 (1996), *Principles for applying the TMN concept to the management of B-ISDN*.
- [2] ITU-T Recommendation I.311 (1993), *B-ISDN general network aspects*.
- [3] ITU-T Recommendation G.803 (1993), *Architectures of transport networks based on the Synchronous Digital Hierarchy (SDH)*.
- [4] CCITT Recommendation M.3400 (1992), *TMN management functions*.
- [5] CCITT Recommendation M.1400 (1992), *Designations for international networks*.
- [6] ITU-T Recommendation I.610 (1995), *B-ISDN operation and maintenance principles and functions*.
- [7] ITU-T Recommendation M.3020 (1995), *TMN interface specification methodology*.
- [8] CCITT Recommendation M.3200 (1992), *TMN management services: Overview*.
- [9] ITU-T Recommendation I.326 (1995), *Functional architecture of transport networks based on ATM*.

**3 Abbreviations**

For the purposes of this Recommendation, the following abbreviations apply:

|      |                                                          |
|------|----------------------------------------------------------|
| ATM  | Asynchronous Transfer Mode                               |
| GDMS | Guidelines for the Definition of TMN Management Services |
| MSP  | Management Service Provider                              |
| NEF  | Network Element Function                                 |
| OAM  | Operation, Administration and Maintenance                |
| OSF  | Operations System Function                               |
| TIB  | Task Information Base                                    |