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CCITT

THE INTERNATIONAL
TELEGRAPH AND TELEPHONE
CONSULTATIVE COMMITTEE

M.3605

(10/92)

MAINTENANCE: ISDN

**APPLICATION OF MAINTENANCE
PRINCIPLES TO STATIC MULTIPLEXED ISDN
BASIC RATE ACCESS**



Recommendation M.3605

FOREWORD

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Recommendation M.3605 was revised by Study Group IV and was approved under the Resolution No. 2 procedure on the 5th of October 1992.

CCITT NOTE

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

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Recommendation M.3605**APPLICATION OF MAINTENANCE PRINCIPLES
TO STATIC MULTIPLEXED ISDN BASIC ACCESS***(Melbourne 1988 as Rec. I.605; revised and renumbered in 1992)**Abstract*

This Recommendation defines capabilities and functions used by the network to maintain static multiplexed ISDN basic rate access.

Keywords

- ISDN;
- maintenance;
- subscriber access;
- V₄ interface.

1 Scope of application

This Recommendation covers the maintenance of the static multiplexed basic rate access, controlled by the network, and describes the operations and maintenance aspects of the V₄ interface.

The V₄ interface is defined in Recommendation Q.512 [7]. The specification of the operations and maintenance aspects of the V₄ interface is the subject of this Recommendation.

This Recommendation follows the maintenance principles as defined in Recommendation M.20 [1] and applies to the basic rate access connected to the exchange via a static multiplexer.

The principle of controlled maintenance is applied for maintaining the static multiplexed basic rate access.

Controlled maintenance is a method of sustaining a desired technical performance by the systematic application of supervision, testing and performance sampling in order to minimize preventive maintenance and to reduce corrective maintenance.

2 Network configuration for maintenance activities

Figure 1/M.3605 shows the general reference configuration of the static multiplexed basic rate access, connected via a digital link to the Exchange Termination (ET).

3 Relationship to the maintenance of the basic rate access

The same principles as given in Recommendation M.3603 [5] for the ISDN basic rate accesses directly connected to the local exchange, should be applied. Therefore, the NT1 and LT for the basic rate accesses connected via a basic rate access static multiplexer to the local exchange must have the same functions as NT1 and LT for the basic rate accesses connected directly to the local exchange.

The loopback mechanism must be implemented according to Recommendation M.3603 [5].