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CCITT

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CONSULTATIVE COMMITTEE

M.3620

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MAINTENANCE: ISDN

**PRINCIPLES FOR THE USE OF ISDN TEST
CALLS, SYSTEMS AND RESPONDERS**



Recommendation M.3620

FOREWORD

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Recommendation M.3620 was prepared 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.3620**PRINCIPLES FOR THE USE OF ISDN TEST CALLS, SYSTEMS AND RESPONDERS***(1992)**Abstract*

This Recommendation provides the general principles associated with ISDN test calls originating from a test system and terminated by a test call responder. It lays down the requirements associated with test calls and lists the facilities that should be provided by a test call responder.

Keywords

- bearer type;
- ISDN network;
- ISDN nodes;
- ISDN test calls;
- teleservice;
- test access;
- test responders;
- test systems.

1 Overview**1.1 General principles for ISDN test calls**

It is recognized that in the ISDN environment, use of controlled maintenance techniques outlined in Recommendation M.20 [1] will indicate areas where problems exist but not necessarily enable maintenance personnel to localize faults to specific equipment. To overcome this problem, the proposed ISDN test call facility should

- enable rapid localization and diagnosis of faults without disruption to the ISDN network;
- avoid or minimise testing across sections of the ISDN network not directly associated with a failure condition;
- verify repaired equipment/restored connections before return to service;
- aid commissioning of new services;
- enable testing of new network interworking.

1.2 Attributes of ISDN test calls

An ISDN test call may be steered and may generate diagnostic information. Where a failure would occur with live traffic, this should be unambiguously indicated (by actual failure or a failure message).

The technician seeking to generate an ISDN test call should be able to relate types of ISDN call set-ups on which users may have experienced difficulties, to types of test calls which are available to simulate them.