



INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

I.359

(02/99)

SERIES I: INTEGRATED SERVICES DIGITAL NETWORK

Overall network aspects and functions – Performance
objectives

Accuracy and dependability of ISDN 64 kbit/s circuit mode connection types

ITU-T Recommendation I.359

(Previously CCITT Recommendation)

ITU-T I-SERIES RECOMMENDATIONS
INTEGRATED SERVICES DIGITAL NETWORK

GENERAL STRUCTURE

Terminology	I.110–I.119
Description of ISDNs	I.120–I.129
General modelling methods	I.130–I.139
Telecommunication network and service attributes	I.140–I.149
General description of asynchronous transfer mode	I.150–I.199

SERVICE CAPABILITIES

Scope	I.200–I.209
General aspects of services in ISDN	I.210–I.219
Common aspects of services in the ISDN	I.220–I.229
Bearer services supported by an ISDN	I.230–I.239
Teleservices supported by an ISDN	I.240–I.249
Supplementary services in ISDN	I.250–I.299

OVERALL NETWORK ASPECTS AND FUNCTIONS

Network functional principles	I.310–I.319
Reference models	I.320–I.329
Numbering, addressing and routing	I.330–I.339
Connection types	I.340–I.349

Performance objectives **I.350–I.359**

Protocol layer requirements	I.360–I.369
General network requirements and functions	I.370–I.399

ISDN USER-NETWORK INTERFACES

Application of I-series Recommendations to ISDN user-network interfaces	I.420–I.429
Layer 1 Recommendations	I.430–I.439
Layer 2 Recommendations	I.440–I.449
Layer 3 Recommendations	I.450–I.459
Multiplexing, rate adaption and support of existing interfaces	I.460–I.469
Aspects of ISDN affecting terminal requirements	I.470–I.499

INTERNETWORK INTERFACES **I.500–I.599**

MAINTENANCE PRINCIPLES **I.600–I.699**

B-ISDN EQUIPMENT ASPECTS

ATM equipment	I.730–I.739
Transport functions	I.740–I.749
Management of ATM equipment	I.750–I.799

For further details, please refer to ITU-T List of Recommendations.

ITU-T RECOMMENDATION I.359**ACCURACY AND DEPENDABILITY OF ISDN 64 kbit/s
CIRCUIT MODE CONNECTION TYPES****Summary**

This Recommendation defines parameters for assessing the accuracy and dependability performance of call processing in an Integrated Services Digital Network (ISDN) provided in accordance with Recommendations identified herein. The defined parameters apply to ISDN services using a single B-channel and associated D-channel; planned revisions to this Recommendation will address other ISDN bearer services (e.g. $n \times 64$ kbit/s and primary rate connection types).

Source

ITU-T Recommendation I.359 was prepared by ITU-T Study Group 13 (1997-2000) and was approved under the WTSC Resolution No. 1 procedure on the 15th of February 1999.

FOREWORD

ITU (International Telecommunication Union) is the United Nations Specialized Agency in the field of telecommunications. The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of the 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.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

NOTE

In this Recommendation the term *recognized operating agency (ROA)* includes any individual, company, corporation or governmental organization that operates a public correspondence service. The terms *Administration*, *ROA* and *public correspondence* are defined in the *Constitution of the ITU (Geneva, 1992)*.

INTELLECTUAL PROPERTY RIGHTS

The ITU draws attention to the possibility that the practice or implementation of this Recommendation may involve the use of a claimed Intellectual Property Right. The ITU takes no position concerning the evidence, validity or applicability of claimed Intellectual Property Rights, whether asserted by ITU members or others outside of the Recommendation development process.

As of the date of approval of this Recommendation, the ITU had not received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementors are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database.

© ITU 1999

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

	Page
1 Scope	1
2 References	3
3 Abbreviations	3
4 Accuracy and dependability parameters and objectives	4
4.1 Access parameters	4
4.1.1 Connection set-up error probability (CSEP)	4
4.1.2 Connection set-up failure probability (CSFP)	5
4.2 Disengagement parameters	6
4.2.1 Premature disconnect parameters	6
4.2.2 Connection clearing failure probability (CCFP)	7