This is a preview - click here to buy the full publication

INTERNATIONAL STANDARD

ISO/IEC 15771

First edition
1998-11-01

Information technology — Telecommunications and information exchange between systems — Private Integrated Services Network — Specification, functional model and information flows — Common information additional network feature

Technologies de l'information — Télécommunications et échange d'information entre systèmes — Réseau privé à intégration de services — Spécification, modèle fonctionnel et flux d'information — Caractéristique de réseau additionnelle d'information courante

Reference number
ISO/IEC 15771:1998(E)

This is a preview - click here to buy the full publication

Contents

Foreword v

Introduction vi

1 Scope 1

2 Conformance 1

3 Normative references 1

4 Definitions 2

4.1 External definitions 2

4.2 Additional Network Feature 2

4.3 ANF-CMN User 2

4.4 Backward direction 2

4.5 Call, Basic Call 2

4.6 Common Information 2

4.7 Feature Identifier 2

4.8 Forward direction 3

4.9 Equipment Identity 3

4.10 Node Identity 3

4.11 Group Identity 3

4.12 Unit Identity 3

4.13 Party Category 3

5 List of acronyms 3

6 ANF-CMN stage 1 specification 3

6.1 Description 3

6.1.1 General description 3

6.1.2 Qualifications on Applicability to Telecommunication Services 4

© ISO/IEC 1998

All rights reserved. Unless otherwise specified, 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 publisher.

ISO/IEC Copyright Office • Case postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland

This is a preview - click here to buy the full publication

6.2 Procedures 4
6.2.1 Provision/Withdrawal 4
6.2.2 Normal procedures 4
6.2.3 Exceptional procedures 4
6.3 Interactions with other Supplementary Services and ANFs 4
6.3.1 Calling Line Identification Presentation (CLIP) 4
6.3.2 Connected Line Identification Presentation (COLP) 5
6.3.3 Calling/Connected Line Identification Restriction (CLIR) 5
6.3.4 Calling Name Identification Presentation (CNIP) 5
6.3.5 Connected Name Identification Presentation (CONP) 5
6.3.6 Calling/Connected Name Identification Restriction (CNIR) 5
6.3.7 Call Forwarding Unconditional (CFU) 5
6.3.8 Call Forwarding Busy (CFB) 5
6.3.9 Call Forwarding No Reply (CFNR) 5
6.3.10 Call Deflection (CD) 5
6.3.11 Call Transfer (CT) 5
6.3.12 Completion of Calls to Busy Subscriber (CCBS) 5
6.3.13 Completion of Calls on No Reply (CCNR) 5
6.3.14 Call Intrusion (CI) 5
6.3.15 Call Offer (CO) 6
6.3.16 Do Not Disturb (DND) 6
6.3.17 Do Not Disturb Override (DNDO) 6
6.3.18 Call Interception (CINT) 6
6.3.19 Advice Of Charge (AOC) 6
6.3.20 Message Waiting Indication (MWI) 6
6.3.21 Path Replacement (PR) 6
6.3.22 Recall (RE) 6
6.3.23 Wireless Terminal Mobility, Outgoing call (WTMO) 6
6.3.24 Wireless Terminal Mobility, Incoming call (WTMI) 6
6.3.25 Wireless Terminal, Location Registration (WTLR) 6
6.3.26 Wireless Terminal, Authentication (WTAN, WTAT) 6

This is a preview - click here to buy the full publication

6.3.27 Transit Counter (TC) 6

6.4 Interworking considerations 6

6.5 Overall SDL 7

7 ANF-CMN stage 2 specification 8

7.1 Functional Model 8

7.1.1 Functional Model Description 8

7.1.2 Description of Functional Entities 8

7.1.3 Relationship of Functional Model to Basic Call Functional Model 8

7.2 Information Flows 9

7.2.1 Definition of Information Flows 9

7.2.2 Relationship of Information Flows to Basic Call Information Flows 11

7.2.3 Information Flow Sequences 11

7.3 Functional entity actions 13

7.3.1 Functional entity actions of FE1 13

7.3.2 Functional entity actions of FE2 13

7.4 Functional entity behaviour 13

7.4.1 Behaviour of FE1 14

7.4.2 Behaviour of FE2 15

7.5 Allocation of Functional Entities to Physical Equipment 15

7.6 Interworking considerations 15

Annex A (informative) **Party category and Equipment Identity** 17

This is a preview - click here to buy the full publication

Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

International Standard ISO/IEC 15771 was prepared by ECMA (as ECMA-250) and was adopted, under a special “fast-track procedure”, by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, in parallel with its approval by national bodies of ISO and IEC.

Annex A of this International Standard is for information only.

This is a preview - click here to buy the full publication
© ISO/IEC

Introduction

This International Standard is one of a series of standards defining services and signalling protocols applicable to Private Integrated Services Networks. The series uses the ISDN concepts as developed by ITU-T and is also within the framework of standards for open systems interconnection as defined by ISO.

This International Standard specifies the Common Information additional network feature.

This International Standard is based upon the practical experience of ECMA member companies and the results of their active and continuous participation in the work of ISO/IEC JTC 1, ITU-T, ETSI and other international and national standardization bodies. It represents a pragmatic and widely based consensus.

There is currently no equivalent feature specified by ITU-T or ETSI for public ISDNs.

This is a preview - click here to buy the full publication

Information technology — Telecommunications and information exchange between systems — Private Integrated Services Network — Specification, functional model and information flows — Common information additional network feature

1 Scope

This International Standard specifies the additional network feature Common Information (ANF-CMN), which is applicable to various basic services supported by Private Integrated Services Networks (PISN). Basic services are specified in ISO/IEC 11574.

ANF-CMN is an additional network feature which enables the exchange of Common Information between entities acting on behalf of the two ends of a connection through a PISN. This Common Information is a collection of miscellaneous information that relates to the user or equipment at one end of a connection and includes one or more of the following: Feature Identifiers, Party Category, Equipment Identity. This information, when received by an entity, can be used for any purpose, e.g. as the basis for indications to the local user or to another network or in order to filter feature requests.

Additional network feature specifications are produced in three stages, according to the method described in ITU-T Rec. I.130. This International Standard contains the stage 1 and stage 2 specifications of ANF-CMN. The stage 1 specification (clause 6) specifies the additional network feature as seen by users of the feature. The stage 2 specification (clause 7) identifies the functional entities involved in the additional network feature and the information flows between them.

2 Conformance

In order to conform to this International Standard, a stage 3 standard shall specify signalling protocols and equipment behaviour that are capable of being used in a PISN which supports the additional network feature specified in this International Standard. This means that, to claim conformance, a stage 3 standard is required to be adequate for the support of those aspects of clause 6 (stage 1) and clause 7 (stage 2) which are relevant to the interface or equipment to which the stage 3 standard applies.

3 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO/IEC 11574:1994, *Information technology - Telecommunications and information exchange between systems - Private Integrated Services Network - Circuit-mode 64 kbit/s bearer services - Service description, functional capabilities and information flows.*

ISO/IEC 11579-1:1994, *Information technology - Telecommunications and information exchange between systems - Private Integrated Services Network - Part 1: Reference configuration for PISN Exchanges (PINX).*

ITU-T Rec. I.112:1993, *Vocabulary of terms for ISDNs.*

ITU-T Rec. I.130:1988, *Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN.*

This is a preview - click here to buy the full publication
© ISO/IEC

ITU-T Rec. I.210:1993, *Principles of telecommunication services supported by an ISDN and the means to describe them.*

ITU-T Rec. Z.100:1993, *Specification and description language.*