INTERNATIONAL STANDARD

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Information technology — Telecommunications and information exchange between systems — Private Integrated Services Network — Circuit-mode multi-rate bearer services — Service description, functional capabilities and information flows

Technologies de l'information — Télécommunications et échange d'information entre systèmes — Réseau privé avec intégration de services — Services porteurs multidébits en mode circuit — Description du service, capacités fonctionnelles et débit d'informations

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Contents

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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 11584 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 6, *Telecommunications and information exchange between systems.*

Introduction

This International Standard is one of a series of ISO standards describing the service specification functional model and information flows applicable to Private Integrated Services Network. The series uses the ISDN concepts as developed by ITU-T (formerly CCITT) and is also within the framework of standards for Open Systems Interconnection as defined by ISO.

This particular International Standard defines the service specification for circuit mode multi-rate bearer service.

The circuit-mode multi-rate bearer services for Private Integrated Services Network (PISN), specified in this International Standard complement, and are compatible with the corresponding services for public ISDN as specified by ITU-T (formerly CCITT). Specifications of the equivalent services are to be found in Rec. I.220, I.230, I.231.

This International Standard contains the stage 1 and stage 2 specifications of the circuit-mode multi-rate bearer services.

Information technology - Telecommunications and information exchange between systems - Private Integrated Services Network - Circuit-mode multi-rate bearer services - Service description, functional capabilities and information flows

Section 1: General

1 Scope

This International Standard specifies service description and control aspects of the multi-rate circuit-mode basic services which may be supported by Private Integrated Services Network (PISN).

One of the purposes of the stage 1 and stage 2 specifications is to guide and constrain the work on signalling protocols at stage 3. Therefore, this International Standard is concerned mainly with the control aspects of services.

A stage 3 standard shall be in conformance with this International Standard, if the signalling protocols and equipment behavior specified in the stage 3 standard are capable of being used in a PISN which supports any or all of the basic services specified in this International Standard.

This International Standard encompasses Circuit-Mode Multi-rate Unrestricted 8 kHz Structured Bearer Service.

Negotiation of services at call establishment time, interworking using channel aggregation (Nx64kbit/s) and change of service during a call are outside the scope of this International Standard.

2 Conformance

In order to conform to this International Standard, a stage 3 standard shall specify signalling protocols and equipment behavior that are capable of being used in a PISN which supports the bearer service 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 stage 1 (section 2) and stage 2 (section 3) 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 - Part1: Reference configuration for PISN Exchanges (PINX).*

CCITT Rec. I.112(1988), *Vocabulary of terms for ISDNs (Blue Book).*

CCITT Rec.I.140(1988), *Attribute technique for the characterization of telecommunication services s upported by an ISDN and network capabilities of an ISDN (Blue Book).*

CCITT Rec. I.210 (1988), *Principles of telecommunication services supported by an ISDN and the means to describe them (Blue Book).*

CCITT Rec. I.230 (1988), *Definition of bearer service categories (Blue Book).*

CCITT Rec. I.231 (1988), *Circuit-mode bearer service categories (Blue Book).*

CCITT Rec.I.412 (1988), *ISDN user-network interfaces interface structure and access capabilities (Blue Book).*