

AS/NZS 4329:1997
ISO/IEC 13868:1995

AS/NZS 4329

Australian/New Zealand Standard[®]

**Information technology—
Telecommunications and
information exchange between
systems—Private integrated
services network—Inter-exchange
signalling protocol—Name
identification supplementary
services**

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Information technology— Telecommunications and information exchange between systems—Private integrated services network—Inter-exchange signalling protocol—Name identification supplementary services

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee IT/16, Private Telecommunications Networking, to supersede AS/NZS 4329(Int):1995.

This Standard is identical with, and has been reproduced from, ISO/IEC 13868:1995, *Information technology—Telecommunications and information exchange between systems—Private Integrated Services Network—Inter-exchange signalling protocol—Name identification supplementary services*.

The objective of this Standard is to provide private integrated services network (PISN) designers and users with the specification for the signalling protocol for use at the Q reference point between PISN exchanges in order to support the provision of name information to users worldwide.

The Standard is one of a series of emerging ISO/IEC Standards applicable to private integrated services networking. The series uses the ISDN concepts as developed by ITU-T and is also within the framework of Standards for Open Systems Interconnection (OSI) as defined by ISO/IEC JTC 1.

Users of this Standard are advised by Standards Australia and Standards New Zealand, under arrangements made with ISO and IEC, as well as certain other Standards organizations, that the number of this Standard is not reproduced on each page; its identity is shown only on the cover, inside front cover and title pages.

The terms 'normative' and 'informative' have been used in this Standard to define the application of the annex to which they apply. A 'normative' annex is an integral part of a Standard, whereas an 'informative' annex is only for information and guidance.

For the purpose of this Joint Standard, the ISO/IEC text should be modified as follows:

- (a) *Terminology* The words 'this Australian/New Zealand Standard' should replace the words 'this International Standard' wherever they appear.
- (b) *References* The references to international Standards should be replaced by references, where appropriate, to the following Australian/New Zealand Standards:

<i>Reference to International Standard or other Publication</i>		<i>Australian/New Zealand Standard</i>	
ISO		AS/NZS	
8859	Information processing— 8-bit single-byte coded graphic character sets	—	
8859-1	Part 1: Latin alphabet No. 1		
ISO/IEC			
11572	Information technology— Telecommunications and information exchange between systems— Private Integrated Services Network—Circuit mode bearer services—Inter-exchange signalling procedures and protocol	4137	Information technology— Telecommunications and information exchange between systems— Private integrated services network—Circuit mode bearer services—Inter-exchange signalling procedures and protocol
11574	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	4135	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

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ISO/IEC		AS/NZS	
11579	Information technology— Telecommunications and information exchange between systems— Private Integrated Services Network	4136	Information technology— Telecommunications and information exchange between systems— Private integrated services network
11579-1	Part 1: Reference configuration for PISN Exchanges (PINX)	4136.1	Part 1: Reference configuration for PISN exchanges (PINX)
11582	Information technology— Telecommunications and information exchange between systems— Private Integrated Services Network— Generic functional protocol for the support of supplementary services— Inter-exchange signalling procedures and protocol	4239	Information technology— Telecommunications and information exchange between systems— Private integrated services network— Generic functional protocol for the support of supplementary services— Inter-exchange signalling procedures and protocol
13864	Information Technology— Telecommunications and information exchange between systems—Private Integrated Services Network— Specification, functional and information flows—Name identification supplementary services	4336	Information technology— Telecommunications and information exchange between systems— Private integrated services network— Specification, functional model and information flows—Name identification supplementary services
CCITT			
Rec.I.112	Vocabulary of terms for ISDNs (Blue Book)	—	
Rec.I.130	Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN (Blue Book)	—	
Rec.I.210	Principles of telecommunications services supported by an ISDN and the means to describe them (Blue Book)	—	
Rec.Z.100	Specification and Description Language (Blue Book)	—	
Rec.T.61	Character repertoire and coded character sets for the international teletex service (Blue Book)	—	

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AUSTRALIAN/NEW ZEALAND STANDARD

Information technology — Telecommunications and information exchange between systems — Private Integrated Services Network — Inter-exchange signalling protocol — Name identification supplementary services**1 Scope**

This International Standard specifies the signalling protocol for the support of name identification supplementary services at the Q reference point between Private Integrated Services Network Exchanges (PINXs) connected together within a Private Integrated Services Network (PISN). The name identification supplementary services are Calling Name Identification Presentation (SS-CNIP) and Connected Name Identification Presentation (SS-CONP).

Calling Name Identification Presentation (CNIP) is a supplementary service which is offered to the called user and which provides the name of the calling user (calling party name) to the called user,

Connected Name Identification Presentation (CONP) is a supplementary service which is offered to the calling user and which provides to the calling user the following:

- the name of the user who answers the call (connected party name);
- optionally the name of the alerting user (called party name);
- optionally the name of the called user who cannot be reached (busy party name).

The supplementary service Calling/connected Name Identification Restriction (CNIR) has no impact on the signalling at Q reference point.

Provision of a user's name to the PISN is outside the scope of this International Standard.

The Q reference point is defined in ISO/IEC 11579-1

Service specifications are produced in three stages according to the method specified in CCITT Recommendation I.130. This International Standard contains the stage 3 specification for the Q reference point and satisfies the requirements identified by the stage 1 and stage 2 specifications in ISO/IEC 13864.

The signalling protocol for SS-CNIP and SS-CONP operates on top of the signalling protocol for basic circuit switched call control, as specified in ISO/IEC 11572, and uses certain aspects of the generic procedures for the control of supplementary services specified in ISO/IEC 11582.

This International Standard also specifies additional signalling protocol requirements for the support of interactions at Q reference point between name identification supplementary services and other supplementary services and ANFs.

This International Standard is applicable to PINXs which can be interconnected to form a PISN.

2 Conformance

In order to conform to this International Standard, a PINX shall satisfy the requirements identified in the Protocol Implementation Conformance Statement (PICS) proforma in annex A.

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

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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 11572:1994, *Information technology - Telecommunications and information exchange between systems - Private Integrated Services Network - Circuit-mode bearer services - Inter-exchange signalling procedures and protocol.*

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).*

ISO/IEC 11582:1995, *Information technology - Telecommunications and information exchange between systems - Private Integrated Services Network - Generic functional protocol for the support of supplementary services - Inter-exchange signalling procedures and protocol.*

ISO/IEC 13864:1995, *Information technology - Telecommunications and information exchange between systems - Private Integrated Services Network - Specification, functional model and information flows - Name identification supplementary services.*

ISO 8859-1:1987, *Information processing - 8-bit single-byte coded graphic character sets - Part 1: Latin alphabet No. 1.*

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

CCITT Rec. I.130 (1988), *Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN (Blue Book).*

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

CCITT Rec.Z.100 (1988), *Specification and Description Language (Blue Book).*

CCITT Rec. T.61 (1988), *Character repertoire and coded character sets for the international teletex service (Blue Book).*

4 Definitions

For the purposes of this International Standard, the following definitions apply.

4.1 External Definitions

This International Standard uses the following terms defined in other documents:

- Application Protocol Data Unit (APDU)	(ISO/IEC 11582)
- Basic Service	(CCITT Rec. I.210)
- Call, Basic Call	(ISO/IEC 11582)
- Coordination Function	(ISO/IEC 11582)
- Incoming Gateway PINX	(ISO/IEC 11572)
- Integrated Services Digital Network	(CCITT Rec. I.112)
- Originating PINX	(ISO/IEC 11572)
- Outgoing Gateway PINX	(ISO/IEC 11572)
- Private Integrated Services Network (PISN)	(ISO/IEC 11579-1)
- Private Integrated Services Network Exchange (PINX)	(ISO/IEC 11579-1)
- Signalling	(CCITT Rec. I.112)
- Supplementary Service	(CCITT Rec. I.210)

- Supplementary Service Control Entity (ISO/IEC 11582)
- Terminating PINX (ISO/IEC 11572)
- Transit PINX (ISO/IEC 11572)
- User (ISO/IEC 11574)

4.2 Name: A string of maximum 50 characters which is used for the name identification of the PISN user of a call.

5 List of Acronyms

APDU	Application Protocol Data Unit
ASN.1	Abstract Syntax Notation One
ISDN	Integrated Services Digital Network
NFE	Network Facility Extension
PICS	Protocol Implementation Conformance Statement
PISN	Private Integrated Services Network
PINX	Private Integrated Services Network Exchange
SDL	Specification and Description Language
SSCE	Supplementary Service Control Entity
SS-CNIP	Calling Name Identification Presentation supplementary service
SS-CONP	Connected Name Identification Presentation supplementary service