

AS/NZS 15507:1999
ISO/IEC 15507:1997

AS/NZS 15507

Australian/New Zealand Standard™

**Information technology—
Telecommunications and
information exchange between
systems—Private integrated
services network—Inter-exchange
signalling protocol—PINX clock
synchronization**

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This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee IT/16, Private Telecommunications Networking. It was approved on behalf of the Council of Standards Australia on 7 December 1998 and on behalf of the Council of Standards New Zealand on 7 December 1998. It was published on 5 March 1999.

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Australia Post
Australian Communications Authority
Australian Electrical and Electronic Manufacturers Association
Australian Telecommunications User Group
New Zealand Standards Committee SC605 WG1
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Information technology— Telecommunications and information exchange between systems—Private integrated services network—Inter-exchange signalling protocol—PINX clock synchronization

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee IT/16, Private Telecommunications Networking.

This Standard is identical with, and has been reproduced from, ISO/IEC 15507:1997, *Information technology—Telecommunications and information exchange between systems—Private Integrated Services Network—Inter-exchange signalling protocol—PINX clock synchronization*.

The objective of this Standard is to provide private integrated services network (PISN) designers and users with the specification for the signalling protocol for the support of clock synchronization, in order to synchronize a PISN 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.

The number of this Standard is not reproduced on each page; its identity is shown only on the cover and title page.

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 Standard, the ISO/IEC text should be modified as follows:

- (a) The words 'this Australian/New Zealand Standard' should replace the words 'this International Standard' wherever they appear.
- (b) 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/IEC	AS/NZS
11573 Information technology— Telecommunications and information exchange between systems— Synchronization methods and technical requirements for Private Integrated Services Networks	4138 Information technology— Telecommunications and information exchange between systems— Synchronization methods and technical requirements for private integrated services networks
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

ITU-T	AS/NZS
Rec. I.112 Vocabulary of terms for ISDNs	—
Rec. Z.100 Specification and description language	—

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AUSTRALIAN/NEW ZEALAND STANDARD

Information technology — Telecommunications and information exchange between systems — Private Integrated Services Network — Inter-exchange signalling protocol — PINX clock synchronization

1 Scope

This International Standard specifies the signalling protocol for the support of clock synchronization (SYNC-SIG) between Private Integrated Services Network Exchanges (PINXs) connected together within a Private Integrated Services Network (PISN).

This protocol supports the synchronization of a PISN using the different sources of clocks available to each PINX. The protocol is based on the method of synchronization described in annex F of the International Standard ISO/IEC 11573.

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 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 11573:1994, | <i>Information technology — Telecommunications and information exchange between systems — Synchronization methods and technical requirements for Private Integrated Services Networks.</i> |
| ISO/IEC 11579-1:1994, | <i>Information technology — Telecommunications and information exchange between systems — Private Integrated Services Network — Part 1: Reference configuration for PISN Exchanges (PINX).</i> |
| ISO/IEC 11582:1995, | <i>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.</i> |
| ITU-T Rec. I.112:1993, | <i>Vocabulary of terms for ISDNs.</i> |
| ITU-T Rec. Z.100:1993, | <i>Specification and description language.</i> |

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 | (ISO/IEC 11582) |
| - End PINX | (ISO/IEC 11582) |
| - Interpretation APDU | (ISO/IEC 11582) |
| - Private Integrated Services Network (PISN) | (ISO/IEC 11579-1) |
| - Private Integrated Services Network Exchange (PINX) | (ISO/IEC 11579-1) |
| - Signalling | (ITU-T Rec. I.112) |
| - Originating PINX | (ISO/IEC 11582) |
| - Terminating PINX | (ISO/IEC 11582) |