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Zasebno telekomunikacijsko omrežje (PTN) – Izrazi in definicije

Private Telecommunication Network (PTN); Terms and definitions

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Foreword

This European Telecommunication Standard (ETS) has been produced by the Business TeleCommunications (BTC) Technical Committee of the European Telecommunications Standards Institute (ETSI).

The contents of this ETS supersede CEN/CENELEC ENV 41007-1 (1991) "Definition of terms in private telecommunication networks; Part 1: Definition of general terms". ENV 41007-1 should be regarded as obsolete.

Proposed transposition dates	
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1 Scope

This European Telecommunication Standard (ETS) defines terms commonly used in ETSs on the subject of Private Telecommunication Networks (PTNs). The purpose of defining terms and definitions is to guide the further specification of PTN capabilities and to permit consistency of interpretation between ETSs containing such specifications.

The terms and definitions given in this ETS apply to the technical aspects of PTNs. They do not address legal or regulatory issues.

An ETS shall be deemed to be in compliance with this ETS if it uses terms with the meanings as defined by this ETS.

2 Normative references

This ETS incorporates by dated and undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this ETS only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

[1] CCITT Recommendation E.164 (1991): "Numbering plan for the ISDN era".

3 Abbreviations

For the purposes of this ETS, the following abbreviations apply:

ANF	Additional Network Feature
CTN	Corporate Telecommunication Network
HDB	Home Data Base
ICN	InterConnecting Network
IPC	Inter-PTNX Connection
IPL	Inter-PTNX Link
ISCTX	Integrated Services CenTralized eXchange
ISDN	Integrated Services Digital Network
ISPBX	Integrated Services Private Branch eXchange
IVN	InterVening Network
PINX	Private Integrated services Network eXchange
PISN	Private Integrated Services Network
PNP	Private Numbering Plan
PSTN	Public Switched Telephone Network
PTN	Private Telecommunication Network
PTNX	Private Telecommunication Network eXchange
TE	Terminal Equipment
VDB	Visitor Data Base
VPN	Virtual Private Network

4 Terms and definitions

The following subclauses are arranged in logical order. An alphabetical index is to be found at the end of this ETS.

NOTE: Draft IEC 50(715) has been used as the basis for the preparation of this ETS. The suitability of other definitions of that document will be considered as a subject arises.

4.1 Public

An attribute indicating that the application of an item qualified by "public", e.g. a network, a unit of equipment, a service, is offered to the general public. This attribute does not indicate any aspects of ownership.

NOTE: This definition does not include legal or regulatory aspects.

4.2 Private

An attribute indicating that the application of an item qualified by "private", e.g. a network, a unit of equipment, a service, is offered to a pre-determined set of users. This attribute does not indicate any aspects of ownership.

NOTE: This definition does not include legal or regulatory aspects.

4.3 Private Telecommunication Network (PTN)

A network serving a pre-determined set of users (different from a public network which provides services to the general public). The attribute "private" does not indicate any aspects of ownership.

NOTE 1: This definition does not include legal or regulatory aspects.

NOTE 2: PTNs are sometimes referred to as **Corporate Telecommunication Networks (CTNs)**. PTNs may extend over large geographical areas. This definition does not imply any specific implementation.

NOTE 3: It is the intention to align the definition of "PTN" with that of "Private Integrated Services Network (PISN)" as defined by ISO/IEC 11579-1. This will facilitate the evolution towards the consistent world-wide use of the term "PISN". This will not invalidate the scope of the services standardized by ETSI for PTNs.

4.4 Private Telecommunication Network eXchange (PTNX)

A PTN nodal entity that provides automatic switching and call handling functions used for the provision of telecommunication services. The nodal entity can be implemented by one or more pieces of equipment located on the premises of the private network administrator or by equipment co-located with, or physically part of, a public network.

NOTE 1: If applicable, a PTNX provides to users of the same and/or other private telecommunication network exchanges:

- telecommunication services within its own area; and/or
- telecommunication services from the public ISDN; and/or
- telecommunication services from other public or private networks; and/or
- within the context of a private telecommunication network, telecommunication services from other private telecommunication network exchanges.

NOTE 2: It is the intention to align the definition of "PTNX" with that of "Private Integrated services Network eXchange (PINX)" as defined by ISO/IEC 11579-1. This will facilitate the evolution towards the consistent world-wide use of the term "PINX".

A PTNX may perform the functions of one or more of the node types given in subclauses 4.4.1 and 4.4.2.

4.4.1 Integrated Services Private Branch eXchange (ISPBX)

The implementation of a PTNX offering ISDN-like capabilities, separate from public network equipment.

NOTE: An ISPBX is usually located on the premises of a private network administrator.

4.4.2 Integrated Services CenTralized eXchange (ISCTX)

The implementation of a PTNX offering ISDN-like capabilities, as part of public network equipment.

NOTE: An ISCTX is usually located on the premises of a public network operator.

4.5 Call related PTNX functionality

In addition to other functionality, a physical implementation of a PTNX can contain one or more of the functionalities defined below. The use of the terms "end-PTNX", "transit-PTNX" and "gateway-PTNX" depends on the particular context. Thus, these terms are not defined in this ETS.

NOTE: The involvement in the execution of services is described in the standards on the services concerned.

4.5.1 End-PTNX functionality

Within the context of a call the functionality of a PTNX required to provide attachment and servicing of terminals.

NOTE: This functionality can be further separated into originating (end-)PTNX functionality (support of the calling user) and terminating (end-)PTNX functionality (support of the called user).

4.5.2 Transit-PTNX functionality

Within the context of a call the functionality of a PTNX required to interconnect end-PTNXs and/or other transit-PTNXs and/or gateway-PTNXs.

4.5.3 Gateway-PTNX functionality

Within the context of a call the functionality of a PTNX required to interconnect end-PTNXs or transit-PTNXs with nodes of other public or private networks.

NOTE: This functionality can be further separated into incoming gateway-PTNX functionality (support of calls incoming to the PTN) and outgoing gateway-PTNX functionality (support of calls outgoing from the PTN).

4.6 Terminal Equipment (TE)

An item of equipment attached to a telecommunication network to provide access for a user to one or more services.

4.7 Link

A means of telecommunication with specified characteristics between two points.

4.7.1 Inter-PTNX Link (IPL)

A link between two PTNXs comprising the totality of signalling and user information transfer means.

NOTE: More than one inter-PTNX link can be established between the same pair of PTNXs.

4.7.2 Access link

A link between a TE and a PTNX comprising the totality of signalling and user information transfer means.

NOTE 1: More than one access link can be established between the same TE and its PTNX.

NOTE 2: Access links between several TEs and a PTNX may share the same means of transmission.

4.8 User

An entity using the services of a network via terminal equipment.

NOTE: A user may be a person or an application process.