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Zasebno omrežje z integriranimi storitvami (PISN) - Signalizacija na referenčni točki S - Dopolnilna storitev: razpoznavanje

Private Telecommunication Network (PTN); Signalling at the S-reference point; Identification supplementary services

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Private Telecommunication Network (PTN); Signalling protocol at the S-reference point Identification supplementary services

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Foreword

This European Telecommunication Standard (ETS) has been produced by the European Computer Manufacturers Association (ECMA) on behalf of its members and those of the European Telecommunications Standards Institute (ETSI).

This ETS is based on the ISDN concept as developed by CCITT and refined by ETSI for European applications, but modified to cover the particularities of private telecommunication networks. It is also in the framework of standards for Open Systems Interconnection as defined by ISO 7498.

The Protocol specified in this ETS is an application to the S reference point of the corresponding aspects of Digital Subscriber Signalling System No. one (DSS1).

This ETS was produced by ECMA using the ECMA guidelines for the production of standards and using the ECMA stylesheet. In order to avoid undue delays in the publication of this ETS it has been agreed that this ETS will not be converted to the ETSI stylesheet.

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1 Scope

This standard specifies the signalling protocol for the support of identification supplementary services at an interface at the S reference point between a Terminal Equipment (TE) and a Private Telecommunication Network (PTN). The Protocol specified in this standard is an extension of the layer 3 protocol for the support of circuit mode basic services, as specified in ETS 300 192. The identification supplementary services concerned are Supplementary Service Calling Line Identification Presentation (SS-CLIP), Supplementary Service Connected Line Identification Presentation (SS-COLP) and Supplementary Service Calling / Connected Line Identification Restriction (SS-CLIR).

Service specifications are produced in three stages, according to the method specified in ENV 41005. This standard satisfies the requirements identified by the stage 1 and stage 2 specifications in ETS 300 173. This standard is applicable to user accesses of PTNXs and to TEs which are intended for connection to PTNs.

The impact on the protocol of interactions between the supplementary services specified in this standard and other supplementary services is outside the scope of this standard.

2 Conformance

In order to conform to this standard, a PTNX shall satisfy the requirements identified in the Protocol Implementation Conformance Statement (PICS) Proforma in Clause B.3 of Annex B.

In order to conform to this standard, a TE shall satisfy the requirements identified in the Protocol Implementation Conformance Statement (PICS) Proforma in Clause B.4 of Annex B.

3 References

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ETS 300 192 (1992) Private Telecommunication Network (PTN); Signalling protocol at the S-reference point; Circuit mode basic services.

ETS 300 173 (1992) Private Telecommunication Network (PTN); Specification, functional models and information flows. Identification supplementary services.

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ETS 300 189 (1992) Private Telecommunication Network (PTN); Addressing.

ETS 300 102-1 (1990) Integrated Services Digital Network (ISDN); User-network interface layer 3; Specification for basic call control; Application of CCITT Recommendation Q.930/I.450 and Recommendation Q.931/I.451.

CCITT Recommendation I.112 Vocabulary of Terms for ISDNs.

ENV 41005 (1990) Method for the Specification of Basic and Supplementary Services of Private Telecommunication Networks.

ENV 41007-1 (1991) Definition of Terms in Private Telecommunication Networks, Part 1: Definition of general terms.

4 Definitions

4.1 General

For the purpose of this standard, the terminology defined in ENV 41007-1 and Recommendation I.112 applies. If there is conflict, the definitions in ENV 41007-1 shall take precedence. In addition the following definitions apply.

4.2 Incoming Call

A call presented to the TE by the PTN.

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4.3 Outgoing Call

A call presented to the PTN by the TE.

5 List of acronyms

ISDN	Integrated Services Digital Network
PICS	Protocol Implementation Conformance Statement
PTN	Private Telecommunication Network
PTNX	Private Telecommunication Network Exchange
SS-CLIP	Supplementary Service Calling Line Identification Presentation
SS-CLIR	Supplementary Service Calling / Connected Line Identification Restriction
SS-COLP	Supplementary Service Connected Line Identification Presentation
TE	Terminal Equipment

6 Signalling Protocol for the support of SS-CLIP

6.1 SS-CLIP Description

Calling Line Identification Presentation (SS-CLIP) is a supplementary service which is offered to the called user and which provides the calling user's number, and subaddress if available, to the called user.

The PTN provides the called user with the number of the calling user whenever an incoming call is presented. The number provided should be sufficient to enable the called user to return the call.

The calling user's number may be accompanied by a subaddress.

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6.2 SS-CLIP Operational Requirements

6.2.1 Provision/Withdrawal

SS-CLIP shall be available to all PTN users with the ability to receive this information. There is no need for service profile control.

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Some PTN users may be given a service profile which permits the override of calling line identification restriction.

6.2.2 Requirements on the Originating Network Side

There are no special requirements for SS-CLIP beyond the basic call procedures specified in ETS 300 192.

NOTE 1:
As part of basic call procedures at the Originating TE-PTN interface, the TE may supply the calling user's number and/or the calling user's subaddress to the PTN. The PTN can use this information to derive the information needed to provide SS-CLIP at the Destination TE-PTN interface (see ETS 300 189).

6.2.3 Requirements on the Destination Network Side

The special requirements detailed in subclause 6.5 for SS-CLIP are in addition to the basic call procedures specified in ETS 300 192.

6.3 SS-CLIP Coding Requirements

The Calling party number information element shall be encoded as specified in ETS 300 192, subclause 12.5.10. This information element can occur in the SETUP message in the direction PTN to TE for the support of SS-CLIP.

The Calling party subaddress information element shall be encoded as specified in ETS 300 192, subclause 12.5.11. This information element can occur in the SETUP message in the direction PTN to TE for the support of SS-CLIP.