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Zasebno telekomunikacijsko omrežje (PTN) – Medcentralni signalizacijski protokol - Vodovne osnovne storitve

Private Telecommunication Network (PTN); Inter-exchange signalling protocol Circuit mode basic services

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Private Telecommunication Network (PTN); Inter-exchange signalling protocol Circuit mode basis 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).

The protocol defined in this ETS is the basis for the QSIG protocol for signalling at the Q reference point between Private Telecommunication Network Exchanges (PTNXs). Whilst this particular ETS defines signalling for the support of circuit mode bearer services, other ETS's specify other aspects of QSIG, e.g. generic procedures for the support of supplementary services and individual supplementary services.

QSIG is independent of the scenario used to interconnect PTNXs (see ENV 41006), and is based on Digital Subscriber Signalling System No. 1 (DSS1), adapted for intra-PTN use. In particular, this ETS is based on a symmetrical form of ETS 300 102.

This ETS is based upon the practical experience of ECMA member companies and the results of their active and continuous participation in the work of ISO, CCITT, ETSI and other international and national standardisation bodies. It represents a pragmatic and widely based consensus.

The differences between this edition and the first edition of ETS 300 172 are detailed in Annex E of this ETS.

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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Section I - General

1 Scope

This European Telecommunication Standard (ETS) defines the Layer 3 protocol for signalling for the support of circuit mode bearer services (used either on their own or in support of teleservices) at the Q reference point between Private Telecommunication Network Exchanges (PTNX) connected together within a Private Telecommunication Network (PTN). The Q reference point is defined in ENV 41004.

Service specifications are produced in three stages and according to the method specified in ENV 41005. The definition of signalling protocols is stage 3 of the method. Stage 1 and stage 2 specifications of the basic circuit mode bearer services are to be found in ETS 300 171. The protocol defined in this ETS satisfies the requirements identified by the stage 1 and stage 2 specifications in ETS 300 171.

2 Field of application

This ETS is applicable to PTNXs which interconnect to form a PTN.

3 Conformance

In order to conform to this ETS, a PTNX shall satisfy the requirements identified in the Protocol Implementation Conformance Statement (PICS) Proforma in annex D.

4 References

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ECMA-133	Reference Configurations for Calls through Exchanges of Private Telecommunication Networks (1989)
ECMA-134	Method for the Specification of Basic and Supplementary Services of Private Telecommunication Networks (1989)
ECMA-135	Scenarios for Interconnections between Exchanges of Private Telecommunication Networks (1989)
ECMA-141	Data Link Layer Protocol at the Q Reference Point for the Signalling Channel between Two Private Telecommunication Network Exchanges (1990)
ECMA-142	Specification, Functional Model and Information Flows for Control Aspects of Circuit Mode Basic Services in Private Telecommunication Networks (1990)
ECMA-148	Identification Supplementary Services in Private Telecommunication Networks - Specification, Functional Model and Information Flows (1990)
ECMA-155	Addressing in Private Telecommunication Networks (1991)
ETS 300 102-1:1990	Integrated Services Digital Network (ISDN); User-network interface layer 3; Specifications for basic call control
ETS 300 170:1992	Private Telecommunication Network (PTN); Inter-exchange signalling, Data link layer protocol
ETS 300 171:1992	Private Telecommunication Network (PTN); Specification, functional models and information flows, Control aspects of circuit mode basic services
ETS 300 173:1992	Private Telecommunication Network (PTN); Specification, functional models and information flows, Identification supplementary services
ETS 300 189:1992	Private Telecommunication Network (PTN); Addressing
ENV 41004:1989	Reference configuration for connectivity relations of private telecommunication network exchanges
ENV 41005:1989	Method for the specification of basic and supplementary services of private telecommunication networks