



SLOVENSKI STANDARD

SIST EN 300 172 V1.4.1:2005

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Zasebno omrežje z integriranimi storitvami (PISN) - Medcentralni signalizacijski protokol - Vodovne osnovne storitve [ISO/IEC 11572 (1996), spremenjen]

Private Integrated Services Network (PISN); Inter-exchange signalling protocol; Circuit-mode basic services [ISO/IEC 11572 (1996) modified]

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European Standard (Telecommunications series)

Private Integrated Services Network (PISN); Inter-exchange signalling protocol; Circuit-mode basic services

[ISO/IEC 11572 (1996) modified]

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Foreword

This European Standard (EN) was produced by ECMA on behalf of its members and those of the European Telecommunications Standards Institute (ETSI).

The protocol defined in the present document is the basis for the QSIG protocol for signalling at the Q reference point between Private Integrated services Network eXchanges (PINX). The QSIG protocol is known as "Private integrated Signalling System No. 1" (PSS1) in International Standards.

Whilst this particular EN defines signalling for the support of circuit-mode bearer services, other ETSs specify other aspects of the QSIG protocol, e.g. generic procedures for the support of supplementary services, and individual supplementary services.

The previous (third) edition of the present document endorsed (with modification) the first edition of ISO/IEC 11572, published in 1994. This edition endorses (with modification) the second edition of ISO/IEC 11572 and two amendments to that International Standard.

National transposition dates	
Date of adoption of this EN:	5 September 1997
Date of latest announcement of this EN (doa):	31 December 1997
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	30 June 1998
Date of withdrawal of any conflicting National Standard (dow):	30 June 1998

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Endorsement notice

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The text of International Standard ISO/IEC 11572 second edition (1996), together with two amendments to that text (Amendment 1 (1996) and Amendment 2 (1996)) was approved by ETSI as an EN with agreed modifications as given below.

NOTE: New or modified text is indicated using sidebars. In addition, underlining and/or strike-out are used to highlight detailed modifications where necessary.

Clause 1

Replace the text of clause 1 by:

The present document 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 Integrated services Network eXchanges (PINX) connected together within a Private Integrated Services Network (PISN). The Q reference point is defined in ETS 300 475-1 [16].

Service specifications are produced in three stages and according to the method specified in ETS 300 387 [12]. The definition of signalling protocols is stage 3 of the method. Stages 1 and 2 specifications of the basic circuit-mode bearer services are to be found in ETS 300 171 [9]. The protocol defined in the present document satisfies the requirements identified by the stages 1 and 2 specifications in ETS 300 171 [9].

Annex ZC is an integral part of the present document.

Clause 2

After clause 2, add the following new clause:

2bis Conformance

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

Clause 3

Replace the first paragraph by:

The present document 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 the present document only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

Insert the following normative references at the end of clause 3:

- [9] ETS 300 171 (1997): "Private Integrated Services Network (PISN); Specification, functional models and information flows; Control aspects of circuit-mode basic services" 2nd edition.
- [10] ETS 300 173 (1996): "Private Integrated Services Network (PISN); Specification, functional models and information flows; Identification supplementary services" 2nd edition.
- [11] ETS 300 189 (1992): "Private Integrated Services Network (PISN); Addressing".
- [12] ETS 300 387 (1994): "Private Telecommunication Network (PTN); Method for the specification of basic and supplementary services".
- [13] ETS 300 402-2 (1995): "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Data link layer; Part 2: General protocol specification [ITU-T Recommendation Q.921 (1993), modified]".
- [14] ETS 300 403-1 (1995): "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 1: Protocol specification [ITU-T Recommendation Q.931 (1993), modified]".
- [15] ETS 300 406 (1995): "Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".

- [16] ETS 300 475-1 (1995): "Private Integrated Services Network (PISN); Reference configuration Part 1: Reference configuration for PISN eXchanges (PINXs)".
- [17] EN 301 049 (1997): "Private Integrated Services Network (PISN); Specification, functional models and information flows; Circuit-mode multi-rate bearer services".

Throughout the text of ISO/IEC 11572

Throughout the text of ISO/IEC 11572, replace references as shown in the table below:

Reference in ISO/IEC 11572	Modified reference
CCITT Q.931 (see note)	ETS 300 403-1 [14]
CCITT Recommendation Q.931	ETS 300 403-1 [14]
ISO/IEC 8886	ETS 300 402-2 [13]
ISO/IEC 9646-1	ETS 300 406 [15]
ISO/IEC 11571	ETS 300 189 [11]
ISO/IEC 11572 or International Standard ISO/IEC 11572	ETS 300 172
ISO/IEC 11574	ETS 300 171 [9]
ISO/IEC 11579-1	ETS 300 475-1 [16]
ISO/IEC 11584	ETS 300 "mrbs" [17]
NOTE: This replacement shall be made throughout the text except in table 20, where the term "CCITT Q.931" is used to describe the protocol discriminator coding.	

Throughout the text of ISO/IEC 11572 (standards.iteh.ai)

Throughout the text of ISO/IEC 11572, replace the term "International Standard" by "EN".

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Subclause 10.5.1

In item (c), replace the text "Calling/Connected Line Identification Restriction" by "Calling/Connected Line Identification Restriction (see ETS 300 173 [10])".

Subclause 10.6.4

In the second paragraph, replace the text "Calling/Connected Line Identification Restriction" by "Calling/Connected Line Identification Restriction (see ETS 300 173 [10])".

Subclause 14.5.2

Replace the 8th paragraph by:

Codeset 4 is used for ISO defined information elements. Codeset 5 is used by ETSI for information elements that are defined in addition to those defined by ITU-T or ISO. The rules for handling information elements of codeset 0 apply to codesets 4 and 5 too.

Subclause 14.5.3, table 23

Modify table 23 as follows:

Table 23: Locking/non-locking shift element

<u>Codeset identification</u>			
Bits			
3	2	1	
0	0	0	Codeset 0: CCITT Q.931 information elements (initially active codeset)
1	0	0	Codeset 4: Information elements defined by ISO
<u>1</u>	<u>0</u>	<u>1</u>	<u>Codeset 5: Information elements defined by ETSI</u>
1	1	0	Codeset 6: Information elements specific to the local network (public or private)
1	1	1	Codeset 7: User-specific information elements
All other values are reserved (see note 1)			
NOTE 1: The handling of national/private information elements is outside the scope of this EN (see annex D).			

Subclause 14.5.5, table 24

Modify the coding of the Information transfer capability (octet 3) in table 24 as follows:

<u>Information transfer capability (octet 3)</u>						
Bits						
5	4	3	2	1		
0	0	0	0	0	Speech	
0	1	0	0	0	Unrestricted digital information	
0	1	0	0	1	Restricted digital information (applicable only in interworking situations)	
1	0	0	0	0	3,1 kHz audio	
<u>1</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>1</u>	<u>Unrestricted digital information with tones / announcements</u>	
All other values are reserved.						

Subclauses 14.5.8 and 14.5.10

In subclauses 14.5.8 and 14.5.10, add a note at the end of the first paragraph:

NOTE 1: For the definition of subaddress, see ETS 300 189 [11].

Renumber the existing note to be NOTE 2.

Subclause 14.5.12

Correct the text of NOTE 2:

NOTE 2: Channel number shall be used unless there is a bilateral agreement to use channel map.

Subclause 14.5.14

In subclause 14.5.14, add a note at the end of the first paragraph:

NOTE 1: For the definition of subaddress, see ETS 300 189 [11].

Renumber the existing note to be NOTE 2.

Subclause 14.5.19

Insert the following new subclause after subclause 14.5.19:

14.6 Information elements of codeset 5

Codeset 5 contains information elements defined by ETSI.

In general the coding rules described in subclause 14.5.1 for codeset 0 apply to codeset 5 also.

Table 34 lists the information element identifiers for information elements of codeset 5 used in the present document.

Table 34: Information element Identifier coding (Codeset 5)

Coding								Ref.	Length	
8	7	6	5	4	3	2	1			
1	:	:	:	-	-	-	-	Single Octet information elements: Reserved Shift	14.5.3	1
0	0	0	-	-	-	-				
0	0	1	-	-	-	-				
0	:	:	:	:	:	:	:	Variable length information elements: Party category	annex ZC	3
0	0	1	1	0	0	1	0			
All other values are reserved.										

Annex A, subclause A.3.2

In the first row of the protocol summary table, replace the words "First Edition" with the words "Fourth Edition".

Annex A, subclause A.3.3

Insert a new row at the end of the PICS proforma table in subclause A.3.3, as follows:

Z5	Support of the unrestricted digital information with tones / announcements bearer	14.5.5	0		Yes [] No []
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