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**Private Integrated Services Network (PISN);  
Inter-exchange signalling protocol;  
Generic functional protocol for the support of  
supplementary services**

**[ISO/IEC 11582 (1995) modified]**

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## Foreword

This second edition European Telecommunication Standard (ETS) has been produced by the Communication, Networks, and Systems Interconnection Technical Committee (TC32) of ECMA on behalf of its members and those of the European Telecommunications Standards Institute (ETSI).

The protocol defined in this ETS is for use at the Q reference point between two Private Integrated services Network eXchanges (PINX) to transport protocol information as part of Supplementary services and/or Additional Network Features (ANFs) within a Private Integrated Services Network (PISN). The protocol defined in this ETS forms part of the QSIG protocol. The QSIG protocol is known as "Private integrated Signalling System no. 1" (PSS1) in International Standards.

The generic functional procedures provide a flexible and open ended approach to the provision of Supplementary service and ANF protocols. These procedures provide:

- generic protocols that may be utilised in the provision of Supplementary services and ANFs, both related to existing calls and separate from existing calls, where appropriate to the capability required;
- a dialogue identification protocol to enable Supplementary service or ANF information flows to be tied together to form a dialogue;
- supplementary service and ANF transparency across a PISN, whereby transit PINXs need have no knowledge of the capability provided to the PISN user or PISN itself unless involved in the provision of that capability; and
- the capability for standardised and manufacturer specific capabilities to coexist in both single and multi-vendor PISNs.

The previous (first) edition of this ETS contained a "standalone" definition of the protocol. This edition endorses an International Standard, ISO/IEC 11582, published since the publication of the first edition of this ETS.

<b>Transposition dates</b>	
Date of adoption of this ETS:	30 November 1995
Date of latest announcement of this ETS (doa):	28 February 1996
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	31 August 1996
Date of withdrawal of any conflicting National Standard (dow):	31 August 1996

## Endorsement notice

The text of International Standard ISO/IEC 11582 (1995) was approved by ETSI as an ETS 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 3

Replace the first paragraph by:

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.

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

[13] \_\_\_\_\_ ETS 300 171 (1992): "Private Telecommunication Network (PTN); Specification, functional models and information flows Control aspects of circuit mode basic services".

[14] \_\_\_\_\_ ETS 300 172 (1995): "Private Integrated services Network (PISN); Inter-exchange signalling protocol Circuit mode basic services" 3rd edition.

[15] \_\_\_\_\_ ETS 300 475-1 (1995): "Private Integrated Services Network (PISN); Reference configuration Part 1: Reference configuration for PISN eXchanges (PINXs)".

### Throughout the text of ISO/IEC 11582

Throughout the text of ISO/IEC 11582, replace references as shown in the table below:

Reference in ISO/IEC 11582	Modified reference
ISO/IEC 11572	ETS 300 172 [14]
ISO/IEC 11574	ETS 300 171 [13]
ISO/IEC 11579	ETS 300 475-1 [15]

### Throughout the text of ISO/IEC 11582

Throughout the text of ISO/IEC 11582, replace the term "International Standard" by "ETS".

#### Subclause 7.3.1.1

In the first paragraph, insert a new bullet item at the end of the 2nd level bulleted list (i.e., before the bullet item "- start timer T303...") so that the text reads:

"....

- optionally, one or more Facility information elements; and

- optionally, a Transit counter information element as defined in annex ZB of ETS 300 172 [14].

- start timer T303 ....".

#### Subclause 7.3.3.1.1

Replace the text: "... the address of the Terminating PINX and enter the ..." by "... the address of the Terminating PINX, and optionally the Transit counter information element with the transit count field set to zero, and enter the ...".

**Subclause 7.3.3.2.1**

Between the 1st and 2nd paragraphs, Insert the following new text:

"If the received SETUP message contains a Transit counter information element in which the transit count field has a value that is less than the acceptable (network dependent) limit, that information element shall be included in the SETUP message sent to the Subsequent PINX. The value of the transit count field in the outgoing Transit counter information element shall be one greater than the value received.

If the received SETUP message contains a Transit counter information element in which the transit count field has a value that is greater than or equal to the acceptable (network dependent) limit of Transit PINXs through which the call may be routed, and the PINX is unable to become the Terminating PINX, GFT-Control shall: request Protocol Control to release the connection by sending a RELEASE message to the Preceding PINX and remain in the Transit connection idle state.

If the received SETUP message does not contain a Transit counter information element, the Transit PINX may include a Transit counter information element in the SETUP message sent to the Subsequent PINX. The value of the transit count field in this element shall be set to a value not less than 1."

**Subclause 11.4**

Add the following new text at the end of the subclause:

"Receiving entities shall be able to interpret all length forms of the basic encoding rules."

**Annex A, subclause A.3.12.3**

Insert 2 new rows at the end of the PICS proforma table in subclause A.3.12.3, as follows:

L5	Transit counter information element - Orig	7.3.1.1, ZB.2.2.1 of ETS 300 17 2 [14]	o		Yes [ ] No [ ]
L6	<u>Transit counter information element - Rx</u>	7.3.1.1, ZB.2.2.1 of ETS 300 17 2 [14]	m		Yes [ ]

## History

Document history	
June 1993	First Edition
June 1995	Unified Approval Procedure UAP 31: 1995-06-19 to 1995-10-13
November 1995	Second Edition
February 1996	Converted into Adobe Acrobat Portable Document Format (PDF)