

# EN 301 264 V1.1.1 (1998-10)

---

*European Standard (Telecommunications series)*

## **Private Integrated Services Network (PISN); Inter-exchange signalling protocol; Advice of Charge (AoC) supplementary services**

**[ISO/IEC 15050 (1997), modified]**

---



---

**Reference**

DEN/ECMA-00051 (bpc00ico.PDF)

---

**Keywords**

PISN, QSIG, VPN

***ETSI***

---

**Postal address**

F-06921 Sophia Antipolis Cedex - FRANCE

---

**Office address**

650 Route des Lucioles - Sophia Antipolis  
Valbonne - FRANCE  
Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16  
Siret N° 348 623 562 00017 - NAF 742 C  
Association à but non lucratif enregistrée à la  
Sous-Préfecture de Grasse (06) N° 7803/88

---

**Internet**

secretariat@etsi.fr  
<http://www.etsi.org>

---

***Copyright Notification***

No part may be reproduced except as authorized by written permission.  
The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 1998.  
All rights reserved.

# Intellectual Property Rights

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in SR 000 314: *"Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards"*, which is available **free of charge** from the ETSI Secretariat. Latest updates are available on the ETSI Web server (<http://www.etsi.org/ipr>).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

## Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee European Computer Manufacturers Association (ECMA).

The present document is one of a series of standards defining services and signalling protocols applicable to Private Integrated Services Networks (PISN). The series uses the Integrated Services Digital Network (ISDN) concepts as developed by ITU-T and conforms to the framework of standards for Open Systems Interconnection (OSI) as defined by ISO/IEC.

This particular EN specifies the Q interface Signalling protocol (QSIG) protocol for use at the Q reference point in support of the Advice of Charge Supplementary Services. The QSIG protocol is known as "Private integrated Signalling System no. 1" (PSS1) in International Standards.

National transposition dates	
Date of adoption of this EN:	23 October 1998
Date of latest announcement of this EN (doa):	31 January 1999
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 July 1999
Date of withdrawal of any conflicting National Standard (dow):	31 July 1999

## Endorsement notice

The text of International Standard ISO/IEC 15050 (1997) 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 3

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

- [16] EN 300 171 (V1.2): "Private Integrated Services Network (PISN); Specification, functional models and information flows; Control aspects of circuit-mode basic services [ISO/IEC 11574 (1994) modified]".
- [17] EN 300 172 (V1.4): "Private Integrated Services Network (PISN); Inter-exchange signalling protocol; Circuit-mode basic services [ISO/IEC 11572 (1996) modified]".
- [18] ETS 300 239 (1995): "Private Integrated Services Network (PISN); Inter-exchange signalling protocol; Generic functional protocol for the support of supplementary services [ISO/IEC 11582 (1995), modified]".
- [19] ETS 300 257 (1995): "Private Integrated Services Network (PISN); Inter-exchange signalling protocol; Diversion supplementary services [ISO/IEC 13873 (1995) modified]".
- [20] ETS 300 260 (1996): "Private Integrated Services Network (PISN); Specification, functional models and information flows; Call transfer supplementary service".
- [21] ETS 300 261 (1995): "Private Integrated Services Network (PISN); Inter-exchange signalling protocol; Call transfer supplementary service [ISO/IEC 13869 (1995) modified]".
- [22] ETS 300 387 (1994): "Private Telecommunication Network (PTN); Method for the specification of basic and supplementary services".
- [23] ETS 300 475-1 (1995): "Private Telecommunication Network (PTN); Reference configuration; Part 1: Reference configuration for PTN eXchanges (PTNX) [ISO/IEC 11579-1 (1994), modified]".
- [24] ETS 300 696 (1996): " Private Integrated Services Network (PISN) - Inter-Exchange Signalling Protocol - Cordless Terminal Incoming Call Additional Network Feature".
- [25] EN 301 265 (V1.1): "Private Integrated Services Network (PISN); Inter-exchange signalling protocol; Call interception additional network feature [ISO/IEC 15054 (1997) modified]".
- [26] EN 301 254 (V1.1): "Private Integrated Services Network (PISN); Specification, functional models and information flows; Advice of Charge (AoC) supplementary services [ISO/IEC 15049 (1997) modified]".

## Throughout the text of ISO/IEC 15050

Replace references as shown in table 1.

**Table 1**

Reference in ISO/IEC 15050	Modified reference
ISO/IEC 11572	EN 300 172 [17]
ISO/IEC 11574	EN 300 171 [16]
ISO/IEC 11579-1	ETS 300 475-1 [23]
ISO/IEC 11582	ETS 300 239 [18]
ISO/IEC 13865	ETS 300 260 [20]
ISO/IEC 13869	ETS 300 261 [21]
ISO/IEC 13873	ETS 300 257 [19]
ISO/IEC 15049	EN 301 254 [26]
ISO/IEC 15054	EN 301 265 [25]
ITU-T Recommendation I.130	ETS 300 387 [22]

## Throughout the text of ISO/IEC 15050

Replace the term "International Standard" by "EN".

### Subclause 6.9.13.1

Insert the following new subclauses after subclause 6.9.13.1:

#### 6.9.14 Interaction with Cordless Terminal Location Registration (SS-CTLR)

No interaction.

#### 6.9.15 Interaction with Cordless Terminal Mobility Incoming Call (ANF-CTMI)

The following interaction shall apply if ANF-CTMI is supported in accordance with ETS 300 696 [24].

##### 6.9.15.1 Actions at an ANF-CTMI Rerouting PINX

When executing ANF-CTMI, the rerouting PINX shall include a chargeRequest invoke APDU in the SETUP message to the visitor PINX if this was included in the SETUP message to the CTMI-Detect PINX.

## Annex A, subclause A.3.9

Insert the following new subclause after subclause A.3.9:

### A.3.10 Interactions between SS-AOC and ANF-CTMI

**Table A.1**

Item	Question/feature	References	Status	N/A	Support
H	Support of ANF-CTMI		o		Yes <input type="checkbox"/> No <input type="checkbox"/>
H2	Able to act as an ANF-CTMI Rerouting PINX		H1:o	<input type="checkbox"/>	o:Yes <input type="checkbox"/> No <input type="checkbox"/>
H3	Actions at an ANF-CTMI Rerouting PINX	6.9.15.1	H2:m	<input type="checkbox"/>	m:Yes <input type="checkbox"/>

---

## History

Document history		
V1.1.1	May 1998	One-step Approval Procedure OAP 9841: 1998-05-20 to 1998-10-16
V1.1.1	October 1998	Publication