SLOVENSKI STANDARD
SIST EN 301 451-1 V1.1.4:2005

01-januar-2005

Zasebno omreġje z integriranimi storitvami (PISN) ï Mobilnost brezvrviļ nega terminala (CTM) ï Signalizacijski protokol med centralami ï Dodatna lastnost omreġja za odhodni klic brezvrviļ nega terminala (ANF-CTMO) za vstopno toļ ko VPN "b" storitve ï 1. del: Zgradba preskuġalnega niza in namen preskuġanja (TSS&TP) ï Specifikacija

Private Integrated Services Network (PISN); Cordless Terminal Mobility (CTM); Inter-exchange signalling protocol; Cordless terminal outgoing call additional network feature (ANF-CTMO) for the VPN b service entry point; Part 1: Test Suite Structure and Test Purposes (TSS&TP) specification

Ta slovenski standard je istoveten z: **EN 301 451-1 Version 1.1.4**

ICS:

33.040.35 Telefonska omrežja Telephone networks

SIST EN 301 451-1 V1.1.4:2005 **en**

ETSI EN 301 451-1 V1.1.4 (2000-09)

European Standard (Telecommunications series)

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Reference
DEN/SPS-05195-2

Keywords
ANF, CTM, mobility, PICS, PISN, QSIG, TSS&TP

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Sous-Préfecture de Grasse (06) N° 7803/88

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Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Signalling Protocol and Switching (SPS).

The present document covers the Private Integrated Service Network (PISN) Inter-exchange signalling protocol - Cordless Terminal Outgoing Call additional network feature - Test Suite Structure and Test Purposes (TSS&TP) specification.

The present document is part 1 of a multi-part deliverable covering Cordless terminal outgoing call additional network feature (ANF-CTMO) for the VPN b service entry point, as identified below:

Part 1: "Test Suite Structure and Test Purposes (TSS&TP) specification";

Part 2: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma".

National transposition dates	
Date of adoption of this EN:	8 September 2000
Date of latest announcement of this EN (doa):	31 December 2000
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	30 June 2001
Date of withdrawal of any conflicting National Standard (dow):	30 June 2001

1 Scope

The present document specifies the Test Suite Structure and Test Purposes (TSS&TP) for the Cordless Terminal Location Registration supplementary service of the Inter-exchange signalling protocol for Private Integrated Services Networks (PISN).

The objective of the present document is to provide conformance tests, which give a greater probability of inter-operability. The TSS&TP specification covers the procedures described in I-ETS 300 808 [5].

The ISO standard for the methodology of conformance testing (ISO/IEC 9646-1 [2], ISO/IEC 9646-2 [3] and ISO/IEC 9646-3 [6]) is used as basis for the test methodology.

The Test Suite Structure and Test Purposes specified in the present document are only intended for VPN scenarios at the "b" service entry point.

The VPN "b" service entry point is defined in EN 301 060-1 [4] and ETR 172 [7].

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

[1] ETSI ETS 300 406 (1995): "Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".

[2] ISO/IEC 9646-1 (1994): "Information technology; Open Systems Interconnection; Conformance testing methodology and framework; Part 1: General concepts".

[3] ISO/IEC 9646-2 (1994): "Information technology; Open Systems Interconnection; Conformance testing methodology and framework; Part 2: Abstract test suite specification".

[4] ETSI EN 301 060-1 (V1.2): "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Basic call control; Enhancement at the "b" service entry point for Virtual Private Network (VPN) applications; Part 1: Protocol specification".

[5] ETSI I-ETS 300 808 (1997): "Private Integrated Services Network (PISN); Cordless Terminal Mobility (CTM); Inter-exchange signalling protocol; Cordless terminal outgoing call additional network feature".

[6] ISO/IEC 9646-3 (1998): "Information technology; Open Systems Interconnection; Conformance testing methodology and framework; Part 3: The Tree and Tabular Combined Notation (TTCN)".

[7] ETSI ETR 172 (1995): "Business TeleCommunications (BTC); Virtual Private Networking (VPN); Services and networking aspects; Standardization requirements and work items".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the following definitions apply:

abstract test case: Refer to ISO/IEC 9646-1 [2]

Abstract Test Suite (ATS): Refer to ISO/IEC 9646-1 [2]

Implementation Under Test (IUT): Refer to ISO/IEC 9646-1 [2]

implicit send event: Refer to ISO/IEC 9646-3 [6]

lower tester: Refer to ISO/IEC 9646-1 [2]

Protocol Implementation Conformance Statement (PICS): Refer to ISO/IEC 9646-1 [2]

PICS proforma: Refer to ISO/IEC 9646-1 [2]

Protocol Implementation eXtra Information for Testing (PIXIT): Refer to ISO/IEC 9646-1 [2]

Test Purpose (TP): Refer to ISO/IEC 9646-1 [2]

Virtual Private Network (VPN): Refer to EN 301 060-1 [4] and ETR 172 [7]

3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

ANF	Additional Network Feature
ANF-CTMI	Cordless Terminal Incoming Call Additional Network Feature
ANF-CTMO	Additional Network Feature Outgoing CTM Call Handling
APDU	Application Protocol Data Unit
ASN.1	Abstract Syntax Notation no. 1
ATS	Abstract Test Suite
CDIV	Call DIVersion
CTHO	Cordless Terminal Mobility Outgoing
CTM	Cordless Terminal Mobility
ISDN	Integrated Services Digital Network
IUT	Implementation Under Test
NFE	Network Facility Extension
PDU	Protocol Data Unit
PICS	Protocol Implementation Conformance Statement
PINX	Private Integrated Services Network eXchange
PISN	Private Integrated Services Network
PIXIT	Protocol Implementation eXtra Information for Testing
TP	Test Purpose
TSS	Test Suite Structure
VPN	Virtual Private Network

4 Test Suite Structure (TSS)

Signalling procedures at the Q Reference Point	**Group**
Signalling procedures at the Originating PINX	Orig01
Signalling procedures at the Home PINX	Home01

Figure 1: Test suite structure

5 Test Purposes (TP)

5.1 Introduction

For each test requirement a TP is defined.

5.1.1 TP naming convention

TPs are numbered, starting at 001, within each group. Groups are organized according to the TSS. Additional references are added to identify the actual test suite and whether it applies to the network or the user (see table 1).

Table 1: TP identifier naming convention scheme

Identifier: **<anf>_<iut><group>_<nnn>**

<anf>	=	ANF	"CTMO"
<iut>	=	type of IUT:	Orig Originating PINX
			Home Home PINX
<group>	=	group	2 digit field representing group reference according to TSS
<nnn>	=	sequential number	(001-999)

5.1.2 Source of TP definition

The TPs are based on I-ETS 300 808 [5].

5.1.3 TP structure

Each TP has been written in a manner, which is consistent with all other TPs. The intention of this is to make the TPs more readable and checkable. A particular structure has been used and this is illustrated in table 2. This table should be read in conjunction with any TP, i.e. use a TP as an example to fully understand the table.