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European Standard (Telecommunications series)

Integrated Services Digital Network (ISDN); Calling Line Identification Presentation (CLIP) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 5: Test Suite Structure and Test Purposes (TSS&TP) specification for the network

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Contents

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Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Signalling Protocols and Switching (SPS), and is now submitted for the ETSI standards One-step Approval Procedure.

The present document is part 5 of a multi-part standard covering the Digital Subscriber Signalling System No. one (DSS1) protocol specification for the Integrated Services Digital Network (ISDN) Calling Line Identification Presentation (CLIP) supplementary service, as described below:

Part 1: "Protocol specification";

Part 2: "Protocol Implementation Conformance Statement (PICS) proforma specification";

Part 3: "Test Suite Structure and Test Purposes (TSS&TP) specification for the user";

Part 4: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the user";

Part 5: "Test Suite Structure and Test Purposes (TSS&TP) specification for the network";

Part 6: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the network".

The present version updates the references to the basic call specifications.

Proposed national transposition dates	
Date of latest announcement of this EN (doa):	3 months after ETSI publication
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	6 months after doa
Date of withdrawal of any conflicting National Standard (dow):	6 months after doa

1 Scope

This fifth part of EN 300 092 specifies the Test Suite Structure and Test Purposes (TSS&TP) for the Network side of the T reference point or coincident S and T reference point (as defined in ITU-T Recommendation I.411 [6]) of implementations conforming to the stage three standard for the Calling Line Identification Presentation (CLIP) supplementary service for the pan-European Integrated Services Digital Network (ISDN) by means of the Digital Subscriber Signalling System No. one (DSS1) protocol, EN 300 092-1 [1].

A further part of the present document specifies the Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma based on the present document. Other parts specify the TSS&TP and the ATS and partial PIXIT proforma for the User side of the T reference point or coincident S and T reference point of implementations conforming to EN 300 092-1 [1].

2 Normative references

References may be made to:

a) specific versions of publications (identified by date of publication, edition number, version number, etc.), in which case, subsequent revisions to the referenced document do not apply; or

b) all versions up to and including the identified version (identified by "up to and including" before the version identity); or

c) all versions subsequent to and including the identified version (identified by "onwards" following the version identity); or

d) publications without mention of a specific version, in which case the latest version applies.

A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.

[1] EN 300 092-1 (V1.2): "Integrated Services Digital Network (ISDN); Calling Line Identification Presentation (CLIP) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

[2] EN 300 092-2 (V1.2): "Integrated Services Digital Network (ISDN); Calling Line Identification Presentation (CLIP) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".

[3] ISO/IEC 9646-1: "Information technology - OSI Conformance Testing Methodology and Framework; Part 1: General Concepts".

[4] ISO/IEC 9646-2: "Information technology - OSI Conformance Testing Methodology and Framework; Part 2: Abstract Test Suite specification".

[5] ISO/IEC 9646-3: "Information technology - OSI Conformance Testing Methodology and Framework; Part 3: The Tree and Tabular Combined Notation".

[6] ITU-T Recommendation I.411 (1993): "ISDN user-network interfaces - Reference configurations".

[7] ETS 300 403-1: "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]".

[8] ITU-T Recommendation I.112: "Vocabulary and terms for ISDNs".

[9] CCITT Recommendation E.164: "Numbering plan for the ISDN era".

[10] ITU-T Recommendation I.210: "Principles of the telecommunication services supported by an ISDN and the means to describe them".

3 Definitions

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

3.1 Definitions related to conformance testing

abstract test case: Refer to ISO/IEC 9646-1 [3].

Abstract Test Suite (ATS): Refer to ISO/IEC 9646-1 [3].

active test: A test case where the IUT is required to send a particular message, but not in reaction to a received message. This would usually involve the use of PIXIT information to see how this message can be generated and quite often is specified in an ATS using an implicit send event.

Implementation Under Test (IUT): Refer to ISO/IEC 9646-1 [3].

implicit send event: Refer to ISO/IEC 9646-3 [5].

lower tester: Refer to ISO/IEC 9646-1 [3].

passive test: A test case where the IUT is required to respond to a protocol event (e.g. received message) with another protocol event (e.g. send message) which normally does not require any special operator intervention as associated with the implicit send event.

point of control and observation: Refer to ISO/IEC 9646-1 [3].

Protocol Implementation Conformance Statement (PICS): Refer to ISO/IEC 9646-1 [3].

PICS proforma: Refer to ISO/IEC 9646-1 [3].

Protocol Implementation eXtra Information for Testing (PIXIT): Refer to ISO/IEC 9646-1 [3].

PIXIT proforma: Refer to ISO/IEC 9646-1 [3].

system under test: Refer to ISO/IEC 9646-1 [3].

Test Purpose (TP): Refer to ISO/IEC 9646-1 [3].

3.2 Definitions related to EN 300 092-1

calling user: The user that initiated an incoming call at the served user. The calling user need not have subscribed to the CLIP supplementary service.

Integrated Services Digital Network (ISDN): See ITU-T Recommendation I.112 [8], definition 308.

ISDN number: A number conforming to the numbering and structure specified in CCITT Recommendation E.164 [9].

international number: An ISDN number structured as specified in subclause 3.2 (in the paragraphs relating to international number) of CCITT Recommendation E.164 [9].

national number; national significant number: An ISDN number structured as specified in subclause 3.2 (in the paragraphs relating to national significant number) of CCITT Recommendation E.164 [9].

network: The DSS1 protocol entity at the Network side of the user-network interface where a T reference point or coincident S and T reference point applies.

network (S/T): The DSS1 protocol entity at the Network side of the user-network interface where a coincident S and T reference point applies.

network (T): The DSS1 protocol entity at the Network side of the user-network interface where a T reference point applies (Network connected to Private ISDN).

served user: The user of a particular ISDN number who has subscribed to the presentation of the calling line identification information in association with incoming calls. The served user is also known as the called user.

service; telecommunication service: See ITU-T Recommendation I.112 [8], definition 201.

subscriber number: An ISDN number structured as specified in subclause 3.2 (in the paragraphs relating to subscriber number) of CCITT Recommendation E.164 [9].

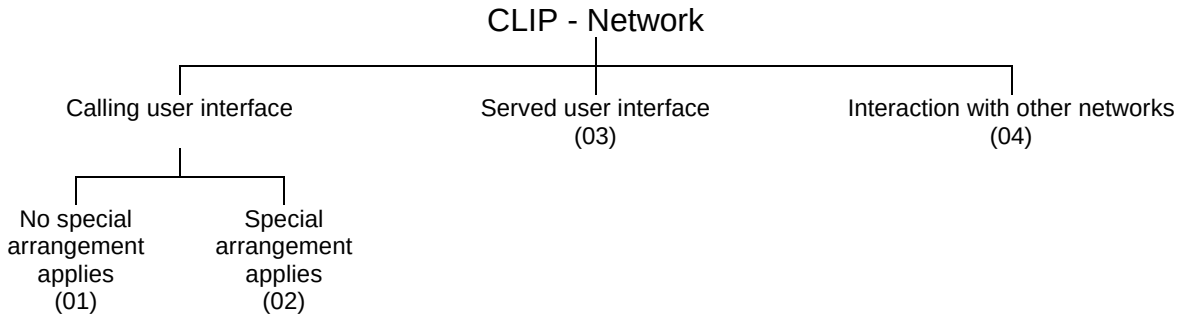
supplementary service: See ITU-T Recommendation I.210 [10], subclause 2.4.

4 Abbreviations

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

ATM	Abstract Test Method
ATS	Abstract Test Suite
CLIP	Calling Line Identification Presentation
ISDN	Integrated Services Digital Network
IUT	Implementation Under Test
N00	Null call state
N01	Call Initiated call state
N06	Call Present call state
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation eXtra Information for Testing
TP	Test Purpose
TSS	Test Suite Structure

5 Test Suite Structure (TSS)



NOTE: Numbers in brackets represent group numbers and are used in TP identifiers.

Figure 1: Test suite structure

6 Test Purposes (TP)

6.1 Introduction

For each test requirement a TP is defined.

6.1.1 TP naming convention

The 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: **<ss>_<iut><group>_<nnn>**				
<ss>	=	supplementary service:	e.g. "CLIP"	
<iut>	=	type of IUT:	U	User
			N	Network
<group>	=	group	2 digit field representing group reference according to TSS	
<nnn>	=	sequential number	(001-999)	

6.1.2 Source of TP definition

The TPs are based on EN 300 092-1 [1].

6.1.3 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.

Table 2: Structure of a single TP

TP part	Text	Example
Header	<Identifier> *tab* <paragraph number in base ETS> *tab* <condition> *CR*.	see table 1 subclause 0.0.0 mandatory, optional, conditional
Stimulus	Ensure that the IUT in the <basic call state> <trigger> *see below for message structure* *or* <goal>	 N00, N10, etc. receiving a XXXX message to request a ...
Reaction	<action> <conditions> *if the action is sending* *see below for message structure* <next action>, *etc.* and enters <supplementary service state> *and/or* and remains in the same state(s) *or* and enters state <state> with CR<number(s)>	sends, saves, does, etc. using en bloc sending, ...
Message structure	<message type> message containing a a) <info element> information element with b) a <field name> encoded as *or* including <coding of the field> and *back to a or b,*	SETUP, FACILITY, CONNECT, ... Bearer capability, Facility, ...
NOTE: Text in italics will not appear in TPs and text between <> is filled in for each TP and may differ from one TP to the next.		

6.1.4 Test strategy

As the base standard EN 300 092-1 [1] contains no explicit requirements for testing, the TPs were generated as a result of an analysis of the base standard and the PICS specification EN 300 092-2 [2]. The criteria applied include the following:

- only the requirements from the point of view of the T or coincident S and T reference point are considered;
- whether or not a test case can be built from the TP is not considered.

6.1.5 Test of call states

Many TPs include a reference to the IUT's final call state after the realization of the TP. In these cases the TP includes the requirement to ensure that the IUT has entered this particular final call state. Ensuring that the IUT is in a particular call state shall be realized by following the procedures described in subclause 5.8.10 of ETS 300 403-1 [7]. According to these procedures, the IUT on receipt of a STATUS ENQUIRY message, shall respond with a STATUS message indicating, in the third octet of the Call state information element, the current call state of the IUT. This exchange of messages is not mentioned explicitly in each TP but is considered to be implicit in the reference to the final call state. This way of phrasing the TPs has been used to avoid over complicating the text and structure of the TPs and to improve the readability.

6.2 Network TPs for CLIP

All PICS items referred to in this subclause are as specified in EN 300 092-2 [2] unless indicated otherwise by another numbered reference.

6.2.1 Calling user interface

6.2.1.1 No special arrangement applies

CLIP_N01_001 subclause 9.3.1, third paragraph mandatory
Ensure that the IUT in the Null call state N00 and no special arrangement applies, on receipt of a SETUP message containing a Calling party number information element with the Numbering plan identifier field coded other than "ISDN/telephony numbering plan" or "unknown",

discards the Calling party number information element (resulting in the sending of a SETUP message containing a Calling party number information element with the default number associated with the calling access to the called user) and enters the Call Initiated call state N01.

CLIP_N01_002 subclause 9.3.1, fourth paragraph mandatory
Ensure that the IUT in the Null call state N00 and no special arrangement applies, on receipt of a SETUP message containing a Calling party number information element with a Screening indicator value and a valid calling number,

discards the Screening indicator value (resulting in the sending of a SETUP message containing a Calling party number information element with the Screening indicator value "user-provided, verified and passed" to the called user) and enters the Call Initiated call state N01.

CLIP_N01_003 subclause 9.3.1, sixth paragraph mandatory
Ensure that the IUT in the Null call state N00 and no special arrangement applies, on receipt of a SETUP message containing a Calling party number information element with an incorrect calling party number,

discards the Calling party number (resulting in the sending of a SETUP message containing a Calling party number information element with the Screening indicator value "network-provided" and the default number associated with the calling access to the called user) and enters the Call Initiated call state N01.

CLIP_N01_004 subclause 9.3.1, sixth paragraph mandatory
Ensure that the IUT in the Null call state N00 and no special arrangement applies, on receipt of a SETUP message containing no Calling party number information element,

accepts the message (resulting in the sending of a SETUP message containing a Calling party number information element with the Screening indicator value "network-provided" and the default number associated with the calling access to the called user) and enters the Call Initiated call state N01.

CLIP_N01_005 subclause 9.3.1, seventh paragraph mandatory
Ensure that the IUT in the Null call state N00 and no special arrangement applies, on receipt of a SETUP message containing a Calling party number information element with valid partial calling party number information,

accepts the message (resulting in the sending of a SETUP message containing a Calling party number information element with the Screening indicator value "user-provided, verified and passed" and the completed calling number to the called user) and enters the Call Initiated call state N01.

CLIP_N01_006 subclause 9.3.1, eighth paragraph mandatory
Ensure that the IUT in the Null call state N00 and no special arrangement applies, on receipt of a SETUP message containing a Calling party number information element and a Calling party subaddress information element,
accepts the message (resulting in the sending of a SETUP message containing a Calling party subaddress information element to the called user) and enters the Call Initiated call state N01.

6.2.1.2 Special arrangement applies

Selection: IUT supports the actions at the destination local exchange if a special arrangement applies. PICS: MC 2.2.

CLIP_N02_001 subclause 9.4.1, third paragraph mandatory
Ensure that the IUT in the Null call state N00 and a special arrangement applies, on receipt of a SETUP message containing a Calling party number information element with the Numbering plan identifier field coded other than "ISDN/telephony numbering plan" or "unknown",
discards the Calling party number information element (resulting in the sending of a SETUP message containing a Calling party number information element with the default number associated with the calling access to the called user) and enters the Call Initiated call state N01.

CLIP_N02_002 subclause 9.4.1, fourth paragraph mandatory
Ensure that the IUT in the Null call state N00 and a special arrangement applies, on receipt of a SETUP message containing a Calling party number information element with the Type of number coded other than "national number" or "international number",
discards the Calling party number information element (resulting in the sending of a SETUP message containing a Calling party number information element with the default number associated with the calling access to the called user) and enters the Call Initiated call state N01.

CLIP_N02_003 subclause 9.4.1, fifth paragraph mandatory
Ensure that the IUT in the Null call state N00 and a special arrangement applies, on receipt of a SETUP message containing a Calling party number information element with a Screening indicator value and a valid calling number,
discards the Screening indicator value (resulting in the sending of a SETUP message containing a Calling party number information element with the Screening indicator value "user-provided, not screened" to the called user) and enters the Call Initiated call state N01.

CLIP_N02_004 subclause 9.4.1, sixth paragraph mandatory
Ensure that the IUT in the Null call state N00 and a special arrangement applies, on receipt of a SETUP message containing no Calling party number information element,
accepts the message (resulting in the sending of a SETUP message containing a Calling party number information element with the Screening indicator value "network-provided" and the default number associated with the calling access to the called user) and enters the Call Initiated call state N01.

CLIP_N02_005 subclause 9.4.1, eighth paragraph mandatory
Ensure that the IUT in the Null call state N00 and a special arrangement applies, on receipt of a SETUP message containing a Calling party number information element and a Calling party subaddress information element,
accepts the message (resulting in the sending of a SETUP message containing a Calling party subaddress information element to the called user) and enters the Call Initiated call state N01.

6.2.2 Served user interface

CLIP_N03_001 subclause 9.5.1, second paragraph optional
Ensure that the IUT in the Null call state N00, to indicate an incoming call and the calling number is available and presentation is allowed,
transmits a SETUP message with a valid Calling party number information element with the calling number, Numbering plan identification set to "ISDN/telephony numbering plan" or "unknown", and Type of number field coded as "national number" or "international number" and enters the Call Present call state N06.

Selection: IUT supports presentation of calling party numbers with Type of number field coded as "national number" or "international number". PICS: SC 2.1.

CLIP_N03_002 subclause 9.5.1, second paragraph optional

Ensure that the IUT in the Null call state N00, to indicate an incoming call and the calling number is available together with the calling party subaddress and presentation is allowed,

transmits a SETUP message with a valid Calling party number information element with the calling number, Numbering plan identification set to "ISDN/telephony numbering plan" or "unknown", Type of number field coded as "national number" or "international number" and a Calling party subaddress information element and enters the Call Present call state N06.

Selection: IUT supports presentation of calling party numbers with Type of number field coded as "national number" or "international number". PICS: SC 2.1.

CLIP_N03_003 subclause 9.5.1, second paragraph optional

Ensure that the IUT in the Null call state N00, to indicate an incoming call and the calling number is available and presentation is allowed,

transmits a SETUP message with a valid Calling party number information element with the calling number, Numbering plan identification set to "ISDN/telephony numbering plan" or "unknown", and Type of number field coded as "unknown" and enters the Call Present call state N06.

Selection: IUT supports presentation of calling party numbers with Type of number field coded as "unknown". PICS: SC 2.2.

CLIP_N03_004 subclause 9.5.1, second paragraph optional

Ensure that the IUT in the Null call state N00, to indicate an incoming call and the calling number is available together with the calling party subaddress and presentation is allowed,

transmits a SETUP message with a valid Calling party number information element with the calling number, Numbering plan identification set to "ISDN/telephony numbering plan" or "unknown", Type of number field coded as "unknown" and a Calling party subaddress information element and enters the Call Present call state N06.

Selection: IUT supports presentation of calling party numbers with Type of number field coded as "unknown". PICS: SC 2.2.

CLIP_N03_005 subclause B.2.1 optional

Ensure that the IUT in the Null call state N00, to indicate an incoming call and the calling number is available, presentation is allowed and the screening indicator is set to "user-provided, not screened",

transmits a SETUP message with a Calling party number information element with the calling number, immediately followed by a second Calling party number information element with the default number of the access of the calling user, with Numbering plan identification set to "ISDN/telephony numbering plan" or "unknown", and with Type of number field coded as "unknown" and enters the Call Present call state N06.

Selection: IUT supports presentation of calling party numbers with Type of number field coded as "unknown". PICS: SC 2.2.

Selection: IUT supports the two Calling party number information element delivery option. PICS: MC 3.1.

CLIP_N03_006 subclause B.2.1 optional

Ensure that the IUT in the Null call state N00, to indicate an incoming call and the calling number is available, presentation is allowed and the screening indicator is set to "user-provided, not screened",

transmits a SETUP message with a Calling party number information element with the calling number, immediately followed by a second Calling party number information element with the default number of the access of the calling user, with Numbering plan identification set to "ISDN/telephony numbering plan" or "unknown", and with Type of number field coded as "national number" or "international number" and enters the Call Present call state N06.

Selection: IUT supports presentation of calling party numbers with Type of number field coded as "national number" or "international number". PICS: SC 2.1.

Selection: IUT supports the two Calling party number information element delivery option. PICS: MC 3.1.

CLIP_N03_007 subclause 9.5.1, fourth paragraph mandatory
Ensure that the IUT in the Null call state N00, to indicate an incoming call and the calling number is available together with the calling party subaddress and presentation is not allowed,

transmits a SETUP message containing a valid Calling party information element with the Presentation indicator set to "presentation restricted", the Screening indicator set to "network provided", the Numbering plan identification and Type of number set to "unknown" and no number digits field and containing no Calling party subaddress information element and enters the Call Present call state N06.

CLIP_N03_008 subclause 9.5.1, fifth paragraph mandatory
Ensure that the IUT in the Null call state N00, to indicate an incoming call and neither the calling number nor an indication that presentation is restricted is available,

transmits a SETUP message containing a valid Calling party information element with the Presentation indicator set to "number not available due to interworking", with the Screening indicator set to "network provided", with the Numbering plan identification and Type of number set to "unknown" and with no number digits field and including no Calling party subaddress information element and enters the Call Present call state N06.

CLIP_N03_009 subclause 9.5.1, sixth paragraph mandatory
Ensure that the IUT in the Null call state N00, to indicate an incoming call and the called user is not provided with the CLIP supplementary service,

transmits a SETUP message without a Calling party number or Calling party subaddress information element and enters the Call Present call state N06.

6.2.3 Interaction with other networks

CLIP_N04_001 subclause 11, first bullet optional
Ensure that the IUT in the Null call state N00, to indicate an incoming call from a non-ISDN and there is no indication that presentation is restricted or allowed,

transmits a SETUP message containing a valid Calling party information element with the Presentation indicator set to "number not available due to interworking", with the Screening indicator set to "network provided", with the Numbering plan identification and Type of number set to "unknown", and with no number digits field and containing no Calling party subaddress information element and enters the Call Present call state N06.

Selection: IUT supports indication of "number not available due to interworking" when interworking with non-ISDNs that provide no indication of restriction. PICS: SC 5.1.

CLIP_N04_002 subclause 11, second bullet optional
Ensure that the IUT in the Null call state N00, to indicate an incoming call from a non-ISDN and there is no indication that presentation is restricted or allowed,

transmits a SETUP message containing a valid Calling party information element with the Presentation indicator set to "presentation restricted", with the Screening indicator set to "network provided", with the Numbering plan identification and Type of number set to "unknown" and with no number digits field and containing no Calling party subaddress information element and enters the Call Present call state N06.

Selection: IUT supports indication of "presentation restricted" when interworking with non-ISDNs that provide no indication of restriction. PICS: SC 5.2.

CLIP_N04_003 subclause 11, third bullet optional
Ensure that the IUT in the Null call state N00, to indicate an incoming call from a non-ISDN and there is no indication that presentation is restricted or allowed,

transmits a SETUP message containing a valid Calling party number information element with the calling number, with the Presentation indicator set to "presentation allowed", with the Screening indicator set to "network provided", with Numbering plan identification set to "ISDN/telephony numbering plan" or "unknown", and with Type of number field coded as "national number", "international number" or "unknown" and containing the Calling party subaddress information element (if any) and enters the Call Present call state N06.

Selection: IUT supports indication of "presentation allowed" when interworking with non-ISDNs that provide no indication of restriction. PICS: SC 5.3.

CLIP_N04_004 subclause 11, second paragraph mandatory
Ensure that the IUT in the Null call state N00, to indicate an incoming call from a non-ISDN and there is no complete calling number available,

transmits a SETUP message containing a valid Calling party information element with the Presentation indicator set to "number not available due to interworking", with the Screening indicator set to "network provided", with the Numbering plan identification and Type of number set to "unknown" and with no number digits field and containing no Calling party subaddress information element and enters the Call Present call state N06.

CLIP_N04_005 subclause 11 mandatory
Ensure that the IUT in the Null call state N00, to indicate an incoming call from a non-ISDN and there is an indication that presentation is allowed,

transmits a SETUP message containing a valid Calling party number information element with the calling number, with Numbering plan identification set to "ISDN/telephony numbering plan" or "unknown", and with Type of number field coded as "national number", "international number" or "unknown" and containing a Calling party subaddress information element (if any) and enters the Call Present call state N06.

CLIP_N04_006 subclause 11 mandatory
Ensure that the IUT in the Null call state N00, to indicate an incoming call from a non-ISDN and there is an indication that presentation is restricted,

transmits a SETUP message containing a valid Calling party information element without the calling number, with the Presentation indicator set to "presentation restricted", with the Screening indicator set to "network provided", with the Numbering plan identification and Type of number set to "unknown", and without a Calling party subaddress information element and enters the Call Present call state N06.

7 Compliance

An ATS which complies with this TSS&TP specification shall:

a) consist of a set of test cases corresponding to the set or to a subset of the TPs specified in clause 6;

b) use a TSS which is an appropriate subset of the whole of the TSS specified in clause 5;

c) use the same naming conventions for the test groups and test cases;

d) maintain the relationship specified in clause 6 between the test groups and TPs and the entries in the PICS proforma to be used for test case deselection;

e) comply with ISO/IEC 9646-2 [4].

In the case of a) or b) above, a subset shall be used only where a particular Abstract Test Method (ATM) makes some TPs untestable. All testable TPs from clause 6 shall be included in a compliant ATS.

8 Requirements for a comprehensive testing service

As a minimum the Remote test method, as specified in ISO/IEC 9646-2 [4], shall be used by any organization claiming to provide a comprehensive testing service for network equipment claiming conformance to EN 300 092-1 [1].

Annex A (informative): Changes with respect to the previous ETS 300 092-5

The following changes have been done:

- conversion to EN layout;
- replacement of references to ETS 300 102 with EN 300 403;
- substitution of non-specific references to basic standards where the intention is to refer to the latest version.

History

Document history		
Edition 1	May 1997	Publication as ETS 300 092-5
V1.2.3	February 1998	One-step Approval Procedure OAP 9824: 1998-02-13 to 1998-06-12