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**Integrated Services Digital Network (ISDN);
Connected Line Identification Presentation (COLP)
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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Foreword

This final draft European Telecommunication Standard (ETS) has been produced by the Signalling Protocols and Switching (SPS) Technical Committee of the European Telecommunications Standards Institute (ETSI), and is now submitted for the Voting phase of the ETSI standards approval procedure.

This ETS 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) Connected Line Identification Presentation (COLP) 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: "TSS&TP specification for the network";

Part 6: "ATS and partial PIXIT proforma specification for the network".

Proposed transposition dates	
Date of latest announcement of this ETS (doa):	3 months after ETSI publication
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Date of withdrawal of any conflicting National Standard (dow):	6 months after doa

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1 Scope

This fifth part of ETS 300 097 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 Connected Line Identification Presentation (COLP) supplementary service for the pan-European Integrated Services Digital Network (ISDN) by means of the Digital Subscriber Signalling System No. one (DSS1) protocol, ETS 300 097-1 [1].

A further part of this ETS specifies the Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma based on this ETS. 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 ETS 300 097-1 [1].

2 Normative references

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.

- [1] ETS 300 097-1: "Integrated Services Digital Network (ISDN); Connected Line Identification Presentation (COLP) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [2] ETS 300 097-2 (1995): "Integrated Services Digital Network (ISDN); Connected Line Identification Presentation (COLP) 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 300 102-1: "Integrated Services Digital Network (ISDN); User-network interface layer 3; Specifications for basic call control".
- [8] ITU-T Recommendation I.112 (1993): "Vocabulary and terms for ISDNs".
- [9] CCITT Recommendation E.164 (1991): "Numbering plan for the ISDN era".
- [10] ITU-T Recommendation I.210 (1993): "Principles of the telecommunication services supported by an ISDN and the means to describe them".

3 Definitions

For the purposes of this ETS, 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 ETS 300 097-1

called user: The user that responded to the served user call request at the destination network and has been awarded the call by the network. The called user need not have subscribed to the COLP supplementary service. The called user is also known as the connected user.

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

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).

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].

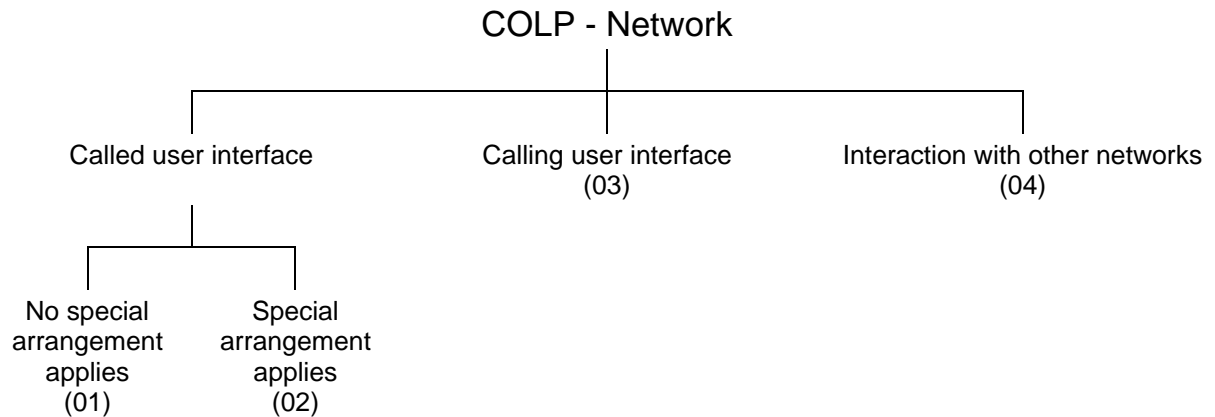
supplementary service: See ITU-T Recommendation I.210 [10], subclause 2.4.

4 Abbreviations

For the purposes of this ETS, the following abbreviations apply:

ATM	Abstract Test Method
ATS	Abstract Test Suite
COLP	Connected Line Identification Presentation
ISDN	Integrated Services Digital Network
IUT	Implementation Under Test
N04	Call Delivered call state
N06	Call Present call state
N10	Active 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. "COLP"
<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 ETS 300 097-1 [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	<i><Identifier> tab</i> <i><paragraph number in base ETS> tab</i> <i><condition> CR.</i>	see table 1 subclause 0.0.0 mandatory, optional, conditional
Stimulus	Ensure that the IUT in the <i><basic call state></i> <i><trigger> see below for message structure</i> <i>or <goal></i>	N00, N10, etc. receiving a XXXX message to request a ...
Reaction	<i><action></i> <i><conditions></i> <i>if the action is sending</i> <i>see below for message structure</i> <i><next action>, etc.</i> and enters <i><supplementary service state></i> <i>and/or</i> and remains in the same state(s) <i>or</i> and enters state <i><state></i> with CR <i><number(s)></i>	sends, saves, does, etc. using en bloc sending, ...
Message structure	<i><message type></i> message containing a a) <i><info element></i> information element with b) a <i><field name></i> encoded as <i>or</i> including <i><coding of the field></i> and <i>back to a or b,</i>	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 ETS 300 097-1 [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 ETS 300 097-2 [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 300 102-1 [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 COLP

All PICS items referred to in this subclause are as specified in ETS 300 097-2 [2] unless indicated otherwise by another numbered reference.

6.2.1 Called user interface

6.2.1.1 No special arrangement applies

COLP_N01_001 **subclause 9.3.1, fourth paragraph** **mandatory**

Ensure that the IUT in the Call Present call state N06 and no special arrangement applies, on receipt of a CONNECT message containing a Connected number information element with the Numbering plan identifier field coded other than "ISDN/telephony numbering plan" or "unknown",
discards the Connected number information element (resulting in the sending of a CONNECT message containing a Connected number information element with the default number associated with the called access to the calling user) and sends a CONNECT ACKNOWLEDGE message and enters the Active call state N10.

COLP_N01_002 **subclause 9.3.1, fifth paragraph** **mandatory**

Ensure that the IUT in the Call Present call state N06 and no special arrangement applies, on receipt of a CONNECT message containing a Connected number information element with a Screening indicator value and a valid connected number,
discards the Screening indicator value (resulting in the sending of a CONNECT message containing a Connected number information element with the Screening indicator value "user-provided, verified and passed" to the calling user) and sends a CONNECT ACKNOWLEDGE message and enters the Active call state N10.

COLP_N01_003 **subclause 9.3.1, seventh paragraph** **mandatory**

Ensure that the IUT in the Call Present call state N06 and no special arrangement applies, on receipt of a CONNECT message containing a Connected number information element but containing an incorrect connected number,
discards the connected number (resulting in the sending of a CONNECT message containing a Connected number information element with the Screening indicator value "network-provided" and the default number associated with the called access to the calling user) and sends a CONNECT ACKNOWLEDGE message and enters the Active call state N10.

COLP_N01_004 **subclause 9.3.1, seventh paragraph** **mandatory**

Ensure that the IUT in the Call Present call state N06 and no special arrangement applies, on receipt of a CONNECT message containing no Connected number information element,
accepts the message (resulting in the sending of a CONNECT message containing a Connected number information element with the Screening indicator value "network-provided" and the default number associated with the called access to the calling user) and sends a CONNECT ACKNOWLEDGE message and enters the Active call state N10.

COLP_N01_005 **subclause 9.3.1, eighth paragraph** **mandatory**

Ensure that the IUT in the Call Present call state N06 and no special arrangement applies, on receipt of a CONNECT message containing a Connected number information element and containing valid partial connected number information,
accepts the message (resulting in the sending of a CONNECT message containing a Connected number information element with the Screening indicator value "network-provided" and the completed connected number to the calling user) and sends a CONNECT ACKNOWLEDGE message and enters the Active call state N10.

COLP_N01_006 **subclause 9.3.1, ninth paragraph** **mandatory**

Ensure that the IUT in the Call Present call state N06 and no special arrangement applies, on receipt of a CONNECT message containing a Connected number information element and a Connected subaddress information element,
accepts the message (resulting in the sending of a CONNECT message containing a Connected number and a Connected subaddress information element to the calling user) and sends a CONNECT ACKNOWLEDGE message and enters the Active call state N10.

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.

COLP_N02_001 **subclause 9.4.1, fourth paragraph** **mandatory**

Ensure that the IUT in the Call Present call state N06 and a special arrangement applies, on receipt of a CONNECT message containing a Connected number information element with the Type of number coded other than "national number" or "international number",
discards the Connected number information element (resulting in the sending of a CONNECT message containing a Connected number information element with the default number associated with the called access to the calling user) and sends a CONNECT ACKNOWLEDGE message and enters the Active call state N10.

COLP_N02_002 **subclause 9.4.1, fifth paragraph** **mandatory**

Ensure that the IUT in the Call Present call state N06 and a special arrangement applies, on receipt of a CONNECT message containing a Connected number information element with the Numbering plan identifier field coded other than "ISDN/telephony numbering plan" or "unknown",
discards the Connected number information element (resulting in the sending of a CONNECT message containing a Connected number information element with the default number associated with the called access to the calling user) and sends a CONNECT ACKNOWLEDGE message and enters the Active call state N10.

COLP_N02_003 **subclause 9.4.1, sixth paragraph** **mandatory**

Ensure that the IUT in the Call Present call state N06 and a special arrangement applies, on receipt of a CONNECT message containing a Connected number information element with a Screening indicator value,
discards the Screening indicator value (resulting in the sending of a CONNECT message containing a Connected number information element with the Screening indicator value "user-provided, not screened" to the calling user) and sends a CONNECT ACKNOWLEDGE message and enters the Active call state N10.

COLP_N02_004 **subclause 9.4.1, seventh paragraph** **mandatory**

Ensure that the IUT in the Call Present call state N06 and a special arrangement applies, on receipt of a CONNECT message containing no Connected number information element,

accepts the message (resulting in the sending of a CONNECT message containing a Connected number information element with the Screening indicator value "network-provided" and the default number associated with the called access to the calling user) and sends a CONNECT ACKNOWLEDGE message and enters the Active call state N10.

COLP_N02_005 **subclause 9.4.1, ninth paragraph** **mandatory**

Ensure that the IUT in the Call Present call state N06 and a special arrangement applies, on receipt of a CONNECT message containing a Connected number information element and a Connected subaddress information element,

accepts the message (resulting in the sending of a CONNECT message containing a Connected number and a Connected subaddress information element to the calling user) and sends a CONNECT ACKNOWLEDGE message and enters the Active call state N10.

6.2.2 **Calling user interface****COLP_N03_001** **subclause 9.5.1, second paragraph** **optional**

Ensure that the IUT in the Call Delivered call state N04, to indicate that the call has been accepted and the connected number is available and presentation is allowed,

sends a CONNECT message containing a valid Connected number information element with the connected number, Numbering plan identifier set to "unknown" or "ISDN/telephony numbering plan" and the Type of number set to "national number" or "international number" and enters the Active call state N10.

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

COLP_N03_002 **subclause 9.5.1, second paragraph** **optional**

Ensure that the IUT in the Call Delivered call state N04, to indicate that the call has been accepted and the connected number is available together with the connected subaddress and presentation is allowed,

sends a CONNECT message containing a valid Connected number information element with the connected number, Numbering plan identifier set to "unknown" or "ISDN/telephony numbering plan" and the Type of number set to "national number" or "international number" and a Connected subaddress information element and enters the Active call state N10.

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

COLP_N03_003 **subclause 9.5.1, second paragraph** **optional**

Ensure that the IUT in the Call Delivered call state N04, to indicate that the call has been accepted and the connected number is available and presentation is allowed,

sends a CONNECT message containing a valid Connected number information element with the connected number, Numbering plan identifier set to "unknown" or "ISDN/telephony numbering plan" and the Type of number set to "unknown" and enters the Active call state N10.

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

COLP_N03_004 **subclause 9.5.1, second paragraph** **optional**

Ensure that the IUT in the Call Delivered call state N04, to indicate that the call has been accepted and the connected number is available together with the connected subaddress and presentation is allowed,

sends a CONNECT message containing a valid Connected number information element with the connected number, Numbering plan identifier set to "unknown" or "ISDN/telephony numbering plan" and the Type of number set to "national number", "international number" or "unknown" and a Connected subaddress information element and enters the Active call state N10.

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

COLP_N03_005 **subclause 9.5.1, third paragraph** **mandatory**

Ensure that the IUT in the Call Delivered call state N04, to indicate that the call has been accepted and the connected number is available and presentation is not allowed,

sends a CONNECT message containing a valid Connected number 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 no Connected subaddress information element and enters the Active call state N10.

COLP_N03_006 **subclause 9.5.1, fifth paragraph** **mandatory**

Ensure that the IUT in the Call Delivered call state N04, to indicate that the call has been accepted and neither the connected number nor an indication that presentation is restricted is available,

sends a CONNECT message containing a valid Connected number information element with the Presentation indicator set to "number not available due to interworking", the Screening indicator set to "network provided", the Numbering plan identification and Type of number set to "unknown" and no number digits field and no Connected subaddress information element and enters the Active call state N10.

COLP_N03_007 **subclause 9.5.1, sixth paragraph** **mandatory**

Ensure that the IUT in the Call Delivered call state N04, to indicate that the call has been accepted and COLP is not provided to the calling user,

sends a CONNECT message without a Connected number or Connected subaddress information element and enters the Active call state N10.

6.2.3 **Interaction with other networks**

COLP_N04_001 **subclause 11, first bullet** **optional**

Ensure that the IUT in the Call Delivered call state N04, to indicate that the call to a non-ISDN has been accepted and there is no indication that presentation is restricted or allowed,

sends a CONNECT message containing a valid Connected number information element with the Presentation indicator set to "number not available due to interworking", the Screening indicator set to "network provided", the Numbering plan identification and Type of number set to "unknown" and no number digits field and no Connected subaddress information element and enters the Active call state N10.

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.

COLP_N04_002 **subclause 11, second bullet** **optional**

Ensure that the IUT in the Call Delivered call state N04, to indicate that the call to a non-ISDN has been accepted and there is no indication that presentation is restricted or allowed,

sends a CONNECT message containing a valid Connected number 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 Connected subaddress information element and enters the Active call state N10.

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

COLP_N04_003 **subclause 11, third bullet** **optional**

Ensure that the IUT in the Call Delivered call state N04, to indicate that the call to a non-ISDN has been accepted and there is no indication that presentation is restricted or allowed,

sends a CONNECT message containing a valid Connected number information element with the connected 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 Connected subaddress information element (if any) and enters the Active call state N10.

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

COLP_N04_004 **subclause 11, second paragraph** **mandatory**

Ensure that the IUT in the Call Delivered call state N04, to indicate that the call to a non-ISDN has been accepted and there is no complete connected number available,

sends a CONNECT message containing a valid Connected number 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 Connected subaddress information element and enters the Active call state N10.

COLP_N04_005 **subclause 11, third paragraph, first bullet** **mandatory**

Ensure that the IUT in the Call Delivered call state N04, to indicate that the call to a non-ISDN has been accepted and there is an indication that presentation is allowed,

sends a CONNECT message containing a valid Connected number information element with the connected number, Numbering plan identification set to "ISDN/telephony numbering plan" or "unknown", Type of number field coded as "national number", "international number" or "unknown" and containing a Connected subaddress information element (if any) and enters the Active call state N10.

COLP_N04_006 **subclause 11, third paragraph, second bullet** **mandatory**

Ensure that the IUT in the Call Delivered call state N04, to indicate that the call to a non-ISDN has been accepted and there is an indication that presentation is restricted,

sends a CONNECT message containing a valid Connected number information element without the connected 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 Connected subaddress information element and enters the Active call state N10.

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 ETS 300 097-1 [1].

History

Document history			
March 1996	Public Enquiry	PE 103:	1996-03-04 to 1996-06-28
March 1997	Vote	V 9720:	1997-03-18 to 1997-05-16