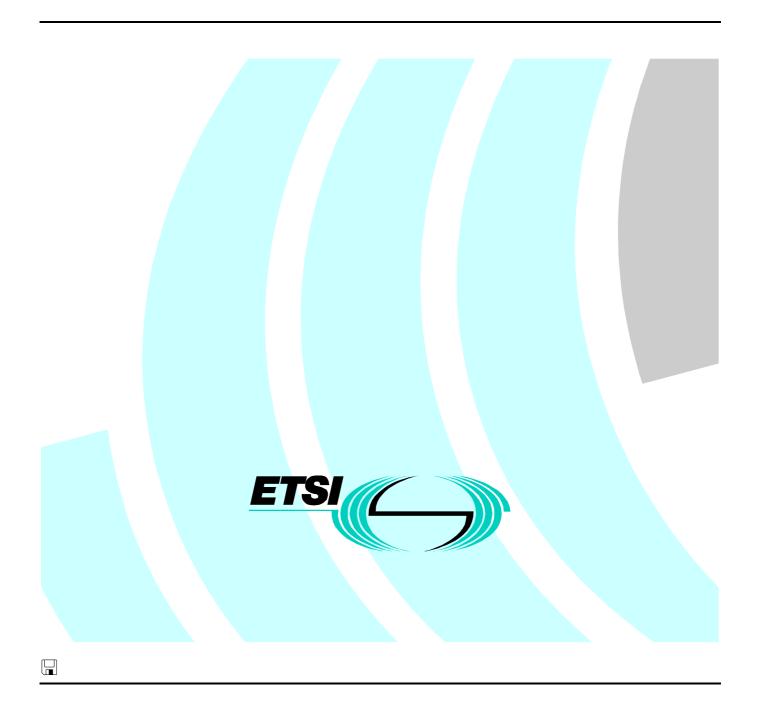
Final draft ETSI EN 301 003-6 V1.1.2 (1999-09)

European Standard (Telecommunications series)

Broadband Integrated Services Digital Network (B-ISDN);
Digital Subscriber Signalling System No. two (DSS2) protocol;
Connection characteristics;
Peak cell rate modification by the connection owner;
Part 6: Abstract Test Suite (ATS) and partial Protocol
Implementation eXtra Information for Testing (PIXIT)
proforma specification for the network



Reference

DEN/SPS-05152-6 (9adi0idc.PDF)

Keywords

ATM, ATS, B-ISDN, broadband, DSS2, ISDN, network, PIXIT, UNI

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Contents

Intelle	ectual Property Rights	5
Forew	word	5
1	Scope	6
2	References	6
3 3.1 3.1.1 3.1.2 3.2	Definitions and abbreviations Definitions Definitions related to conformance testing Definitions related to EN 301 003-1 Abbreviations	7 7 7
4 4.1 4.2	Abstract Test Method (ATM) Description of ATM used Conventions for test components and PCOs	8
5	Untestable test purposes	10
6	ATS to TP map	10
7	PCTR conformance	10
8	PIXIT conformance	10
9	ATS Conformance	11
Anne	ex A (normative): Protocol Conformance Test Report (PCTR) proforma	12
A.1 A.1.1 A.1.2 A.1.3 A.1.4 A.1.5	Testing environment Limits and reservations	
A.2	IUT Conformance status	
A.3	Static conformance summary	13
A.4	Dynamic conformance summary	
A.5	Static conformance review report	
A.6	Test campaign report	
A.7	Observations	
	ex B (normative): Partial PIXIT proforma	
B.1	Identification summary	
В.1	Abstract test suite summary	
	·	
B.3	Test laboratory	
B.4	Client (of the Test Laboratory)	
B.5	SUT	
B.6 B.6.1 B.6.2 B.6.3 B.6.4	Protocol information Protocol identification Configuration to be tested Test management timers Parameter Values	19 19 19

Final draft ETSI EN 301 003-6 V1.1.2 (1999-09)

Anne	x C (normative): Abstract Test Suite (ATS)	21
C.1	The TTCN Graphical form (TTCN.GR)	21
C.2	The TTCN Machine Processable form (TTCN.MP)	21
Biblic	graphy	22
Histor	y	23

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Foreword

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

The present document is part 6 of a multi-part standard covering the Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Connection characteristics; Peak cell rate modification by the connection owner, 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".

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

The present document specifies the network Abstract Test Suite (ATS) for the T_B reference point or coincident S_B and T_B reference point (as defined in ITU-T Recommendation I.413 [11]) of implementations conforming to the standards for the signalling user-network layer 3 specification for Peak cell rate modification by the connection owner of the Digital Subscriber Signalling System No. two (DSS2) protocol for the pan-European Broadband Integrated Services Digital Network (B-ISDN), EN 301 003-1 [1].

A further part of the present document specifies the Test Suite Structure and Test Purposes (TSS&TP) related to this ATS and partial PIXIT proforma. Other parts specify the TSS&TP and the ATS and partial PIXIT proforma for the User side of the T_B reference point or coincident S_B and T_B reference point of implementations conforming to EN 301 003-1 [1].

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.
- 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 301 003-1 (V1.1): "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Connection characteristics; Peak cell rate modification by the connection owner; Part 1: Protocol specification [ITU-T Recommendation Q.2963.1 (1996), modified]".
- [2] EN 301 003-2 (V1.1): "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Connection characteristics; Peak cell rate modification by the connection owner; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".
- [3] EN 301 003-5 (V1.1): "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Connection characteristics; Peak cell rate modification by the connection owner; Part 5: Test Suite Structure and Test Purposes (TSS&TP) specification for the network".
- [4] EN 300 443-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; B-ISDN user-network interface layer 3 specification for basic call/bearer control; Part 1: Protocol specification [ITU-T Recommendation Q.2931 (1995), modified]".
- [5] EN 300 443-2: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; B-ISDN user-network interface layer 3 specification for basic call/bearer control; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".
- [6] ISO/IEC 9646-1 (1994): "Information technology Open Systems Interconnection Conformance testing methodology and framework Part 1: General concepts".
- [7] ISO/IEC 9646-2 (1994): "Information technology Open Systems Interconnection Conformance testing methodology and framework Part 2: Abstract Test Suite specification".

7

[8]	ISO/IEC 9646-3 (1998): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 3: The Tree and Tabular Combined Notation (TTCN)".
[9]	ISO/IEC 9646-4 (1994): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 4: Test realization".
[10]	ISO/IEC 9646-5 (1994): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 5: Requirements on test laboratories and clients for the conformance assessment process".
[11]	ITU-T Recommendation I.413 (1993): "B-ISDN user-network interface".

Definitions and abbreviations

3.1 Definitions

3

For the purposes of the present document, the following definitions apply, in addition to those given in EN 301 003-1 [1] and EN 300 443-1 [4].

3.1.1 Definitions related to conformance testing

abstract test case: refer to ISO/IEC 9646-1 [6].

Abstract Test Method (ATM): refer to ISO/IEC 9646-1 [6].

Abstract Test Suite (ATS): refer to ISO/IEC 9646-1 [6].

Implementation Under Test (IUT): refer to ISO/IEC 9646-1 [6].

System Under Test (SUT): see ISO/IEC 9646-1 [6].

Upper Tester (UT): see ISO/IEC 9646-1 [6].

lower tester: refer to ISO/IEC 9646-1 [6].

Protocol Implementation Conformance Statement (PICS): refer to ISO/IEC 9646-1 [6].

PICS proforma: refer to ISO/IEC 9646-1 [6].

Protocol Implementation eXtra Information for Testing (PIXIT): refer to ISO/IEC 9646-1 [6].

PIXIT proforma: refer to ISO/IEC 9646-1 [6].

Test Purpose (TP): refer to ISO/IEC 9646-1 [6].

Point of Control and Observation (PCO): see ISO/IEC 9646-1 [6].

3.1.2 Definitions related to EN 301 003-1

user: DSS2 protocol entity at the User side of the user-network interface where a T_B reference point or coincident S_B and T_B reference point applies.

user (S_B/T_B): DSS2 protocol entity at the User side of the user-network interface where a coincident S_B and T_B reference point applies.

user (T_B) : DSS2 protocol entity at the User side of the user-network interface where a T_B reference point applies (user is a private ISDN).

3.2 Abbreviations

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

ATM Abstract Test Method ATS Abstract Test Suite

B-ISDN Broadband Integrated Services Digital Network

CM Coordination Messages

DSS2 Digital Subscriber Signalling System No. two

ExTS Executable Test Suite IUT Implementation Under Test

LT Lower Tester
MOT Means Of Testing
MTC Main Test Component

PCO Point of Control and Observation

PDU Protocol Data Unit

PICS Protocol Implementation Conformance Statement
PIXIT Protocol Implementation eXtra Information for Testing

PTC Parallel Test Components
SUT System Under Test
TP Test Purpose
TSS Test Suite Structure

TTCN Tree and Tabular Combined Notation

UT Upper Tester

VCI Virtual Channel Identifier
VPCI Virtual Path Connection Identifier

4 Abstract Test Method (ATM)

4.1 Description of ATM used

The requirement for testing the network IUT is to focus on the behaviour of the network IUT at the user-network interface where a T_B reference point or coincident S_B and T_B reference point applies. Thus the IUT is the network DSS2 protocol entity at a particular user-network interface and is not the whole network.

It is possible to specify an ATS based on a Single party (remote) test method for such an IUT. However, it is considered that an ATS based on such an approach is of limited use as the only way to specify IUT generated PDUs is to use the "implicit send" statement. Many users of such an ATS would replace the "implicit send" statements with descriptions of the behaviour at other interfaces.

An ATS based on a multi-party test method is considered to be more useful in that it is closer to how a real test suite would be constructed. Such a test method specifies behaviour at multiple network interfaces. One very important limitation here is that tests are focussed on one particular interface. Thus the test system is made up one Main Test Component (MTC) and one or more Parallel Test Components (PTC), see figure 1.

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4.2 Conventions for test components and PCOs

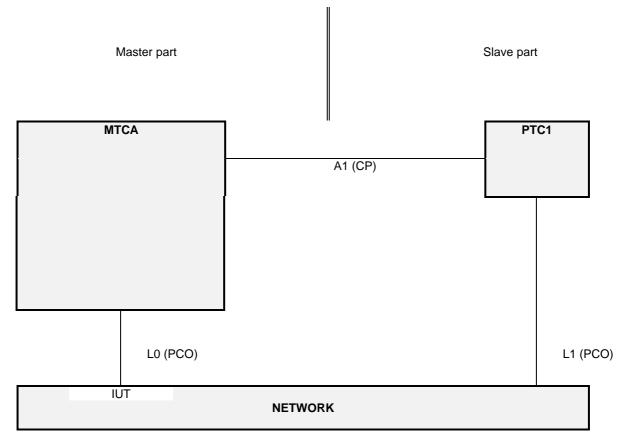


Figure 1: Multi-party test method

In a master/slave arrangement, the MTC is considered to be the master while the PTCs are the slaves. The "slave" testers are only an explicit description of how to deal with the remote interfaces during the testing process, i.e. "how to make the IUT send the required message".

This means, in particular, that the verdict will only be assigned from the protocol aspects observed on *the* interface under test (i.e. by the "master" tester), as it would be observed by a terminal connected to this interface. A failure in the correlation between the protocol at the different interfaces to which the different testers are connected, i.e. in the mechanism of the functional service itself, will not cause a FAIL verdict. For instance, if the IUT fails to send a message on the tested interface after another interface has received the proper stimulus, the verdict will be INCONCLUSIVE.

The MTC MTCA has two functions in this configuration. Firstly, it has the MTC function of controlling the one or more PTCs. Thus it is responsible for starting the PTCs and afterwards coordinates activities by exchanging Coordination Messages (CM) with the PTCs. Secondly it is responsible for the behaviour of the Lower Tester (LT) at PCO L0.

A combination of the remote and multi-party test methods is applied. As can be seen from figure 1, several PCOs are used. All PCOs reside at the service access points between layers 2 and 3.

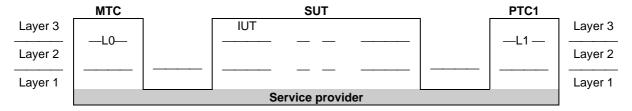


Figure 2: Combination of the remote and multi-party test methods

The MTC PCO is named "L0" ("L" for Lower). The L0 PCO is used to control and observe the behaviour of the IUT and test case verdicts are assigned depending on the behaviour observed at this PCO. The PTCs PTC1, PTC2 etc. use PCOs L1, L2 etc. These PCOs are used to control and, in a limited way, observe the behaviour of the network equipment at interfaces other than the one under test. No verdicts are assigned at these PCOs.

As stated in a previous paragraph, the non-receipt of network generated messages at L0, which are stimulated by events at the L1, L2 etc., will result in INCONCLUSIVE rather than FAIL verdicts being assigned.

PTC2 is only activated in that test cases that test the procedures at the access between a root user and the IUT, when more than one party is involved in the call between the root user and the IUT. In test cases which verify that the IUT rejects invalid or unacceptable SETUP messages, no PTC is activated at all, as these rejection procedures are considered local to the access between IUT and MTC.

5 Untestable test purposes

There are no untestable test purposes associated with this ATS.

6 ATS to TP map

The identifiers used for the TPs (see EN 301 003-5 [3]) are reused as test case names. Thus there is a straightforward one-to-one mapping.

7 PCTR conformance

A test laboratory, when requested by a client to produce a PCTR, is required, as specified in ISO/IEC 9646-5 [10], to produce a PCTR conformant with the PCTR template given in Annex B of ISO/IEC 9646-4 [9].

Furthermore, a test laboratory, offering testing for the ATS specification contained in Annex C, when requested by a client to produce a PCTR, is required to produce a PCTR conformant with the PCTR proforma contained in Annex A of the present document.

A PCTR which conforms to this PCTR proforma specification shall preserve the content and ordering of the clauses contained in annex A. Clause A.6 of the PCTR may contain additional columns. If included, these shall be placed to the right of the existing columns. Text in italics may be retained by the test laboratory.

8 PIXIT conformance

A test realizer, producing an executable test suite for the Abstract Test Suite (ATS) specification contained in annex C, is required, as specified in ISO/IEC 9646-4 [9], to produce an augmented partial PIXIT proforma conformant with this partial PIXIT proforma specification.

An augmented partial PIXIT proforma which conforms to this partial PIXIT proforma specification shall, as a minimum, have contents which are technically equivalent to annex B. The augmented partial PIXIT proforma may contain additional questions that need to be answered in order to prepare the Means Of Testing (MOT) for a particular Implementation Under Test (IUT).

A test laboratory, offering testing for the ATS specification contained in Annex C, is required, as specified in ISO/IEC 9646-5 [10], to further augment the augmented partial PIXIT proforma to produce a PIXIT proforma conformant with this partial PIXIT proforma specification.

A PIXIT proforma which conforms to this partial PIXIT proforma specification shall, as a minimum, have contents which are technically equivalent to annex B. The PIXIT proforma may contain additional questions that need to be answered in order to prepare the test laboratory for a particular IUT.

9 ATS Conformance

The test realizer, producing a Means Of Testing (MOT) and Executable Test Suite (ExTS) for this Abstract Test Suite (ATS) specification, shall comply with the requirements of ISO/IEC 9646-4 [9]. In particular, these concern the realization of an Executable Test Suite (ExTS) based on each ATS. The test realizer shall provide a statement of conformance of the MOT to this ATS specification.

An ExTS which conforms to this ATS specification shall contain test groups and test cases which are technically equivalent to those contained in the ATS in Annex C. All sequences of test events comprising an abstract test case shall be capable of being realized in the executable test case. Any further checking which the test system might be capable of performing is outside the scope of this ATS specification and shall not contribute to the verdict assignment for each test case.

Test laboratories running conformance test services using this ATS shall comply with ISO/IEC 9646-5 [10].

A test laboratory which claims to conform to this ATS specification shall use an MOT which conforms to this ATS.

Annex A (normative): Protocol Conformance Test Report (PCTR) proforma

Notwithstanding the provisions of the copyright clause related to the text of the present document, ETSI grants that users of the present document may freely reproduce the PCTR proforma in this annex so that it can be used for its intended purposes and may further publish the completed PCTR.

A.1 Identification summary

A.1.1 Protocol conformance test report

PCTR number:	
PCTR Date:	
Corresponding SCTR number:	
Corresponding SCTR date:	
Test Laboratory identification:	
Test Laboratory Manager:	
Signature:	

A.1.2 IUT identification

Name:	
Version:	
Protocol specification:	EN 301 003-1
PICS:	
Previous PCTRs (if any)	

A.1.3 Testing environment

PIXIT Reference number:	
ATS Specification:	EN 301 003-6
Abstract Test Method:	Multi-party test method (see ISO/IEC 9646-2)
Means of Testing identification:	
Dates of testing:	
Conformance Log reference(s):	
Retention Date for Log reference(s):	

A.1.4 Limits and reservations

Additional information relevant to the technical contents or further use of the test report, or to the rights and obligations of the test laboratory and the client, may be given here. Such information may include restriction on the publication of the report.		
A.1.5 Comments		
Additional comments may be given by either the client or the test laboratory on any of the contents of the PCTR, for example, to note disagreement between the two parties.		

A.2 IUT Conformance status

This IUT has/has not been shown by conformance assessment to be non-conforming to the specified protocol specification.

Strike the appropriate words in this sentence. If the PICS for this IUT is consistent with the static conformance requirements (as specified in clause A.3 of this report) and there are no "FAIL" verdicts to be recorded (in clause A.6) strike the words "has or", otherwise strike the words "or has not".

A.3 Static conformance summary

The PICS for this IUT is/is not consistent with the static conformance requirements in the specified protocol.

Strike the appropriate words in this sentence.

A.4 Dynamic conformance summary

The test campaign did/did not reveal errors in the IUT.

The test campaign did/did not reveal errors in the 101.
Strike the appropriate words in this sentence. If there are no "FAIL" verdicts to be recorded (in clause A.6 of this report) strike the words "did or", otherwise strike the words "or did not".
Summary of the results of groups of tests:
A.5 Static conformance review report
If clause A.3 indicates non-conformance, this subclause itemizes the mismatches between the PICS and the static conformance requirements of the specified protocol specification.

A.6 Test campaign report

ATS Reference	Selected ? (Y/N)	Run ? (Y/N)	Verdict	Observations
Signalling procedures a			reference points	
MODN_01_01		, . B a a at a b . B .		
MODN_01_02				
MODN_01_03				
MODN_01_04				
MODN_01_05				
MODN_01_06				
MODN_01_07				
MODN_01_08				
MODN_01_09				
MODN_02_01				
MODN_02_02				
MODN_02_03				
MODN_02_04				
MODN_02_05				
MODN_02_06				
MODN_02_07				
MODN_02_08				
MODN_02_09				
MODN_02_10				
MODN_02_11				
MODN_02_12				

MODN 02 15 MODN 02 15 MODN 02 16 MODN 02 17 MODN 02 17 MODN 02 19 MODN 02 19 MODN 02 29 MODN 02 20 MODN 02 21 MODN 02 22 MODN 02 22 MODN 02 23 MODN 03 23 MODN 04 04 MODN 04 04 MODN 04 05 MODN 04 06 MODN 05 06 MODN 05 06 MODN 05 06 MODN 05 07 MODN 05 11 MODN 05 12 MODN 05 14 MODN 05 18 MODN 05 18 MODN 05 18 MODN 05 12 MODN 05 17 MODN 05 18 MODN 05 19 MODN 05 10 MODN 05 11 MODN 05 11 MODN 05 11 MODN 05 12 MODN 05 16 MODN 05 17 MODN 05 17 MODN 05 18 MODN 05 18 MODN 05 19 MODN 05 10 MODN 05 11 MODN 05 11 MODN 05 12 MODN 05 16 MODN 05 17 MODN 05 18 MODN 05 18 MODN 05 19 MODN 05 10 MODN 05 11 MODN 05 12 MODN 05 12 MODN 05 12 MODN 05 13 MODN 05 14 MODN 05 16 MODN 05 17 MODN 05 18 MODN 05 18 MODN 05 22 MODN 05 22 MODN 05 22 MODN 05 22 MODN 05 23 MODN 05 22 MODN 05 23 MODN 05 26 MODN 05 26 MODN 05 27 MODN 05 28 MODN 05 29 MODN 05 20 MODN 05 20 MODN 05 20 MODN 05 21 MODN 05 22 MODN 05 23 MODN 05 26 MODN 05 26 MODN 05 27 MODN 05 28 MODN 05 29 MODN 05 33	ATS Reference	Selected ? (Y/N)	Run ? (Y/N)	Verdict	Observations
MODN 02-14 MODN 02-15 MODN 02-16 MODN 02-16 MODN 02-17 MODN 02-18 MODN 02-18 MODN 02-19 MODN 02-19 MODN 02-20 MODN 02-20 MODN 02-20 MODN 02-22 MODN 02-22 MODN 02-22 MODN 02-22 MODN 02-22 MODN 02-23 MODN 02-23 MODN 02-23 MODN 02-23 MODN 02-24 MODN 02-24 MODN 02-24 MODN 03-24 MODN 04-04 MODN 04-05 MODN 05-05 MODN 05-06 MODN 05-06 MODN 05-06 MODN 05-07 MODN 05-07 MODN 05-07 MODN 05-12 MODN 05-12 MODN 05-14 MODN 05-14 MODN 05-14 MODN 05-16 MODN 05-27 MODN 05-28 MODN 05-28 MODN 05-28 MODN 05-28 MODN 05-29 MODN 05-29 MODN 05-29 MODN 05-29 MODN 05-29 MODN 05-36 MODN	Signalling procedures a	t the coincident S _B	T _B and at the T _B	reference points	
MODN 02-16 MODN 02-17 MODN 02-17 MODN 02-18 MODN 02-18 MODN 02-19 MODN 02-29 MODN 02-29 MODN 02-21 MODN 02-23 MODN 02-23 MODN 03-21 MODN 03-61 MODN 04-01 MODN 04-01 MODN 04-01 MODN 04-01 MODN 04-05 MODN 04-05 MODN 05-02 MODN 05-01	MODN_02_13			·	
MODN 02-16 MODN 02-17 MODN 02-18 MODN 02-19 MODN 02-29 MODN 02-21 MODN 02-21 MODN 02-21 MODN 02-22 MODN 02-22 MODN 02-23 MODN 02-23 MODN 02-23 MODN 02-23 MODN 02-23 MODN 03-01 MODN 03-01 MODN 04-01 MODN 04-02 MODN 04-02 MODN 04-04 MODN 04-04 MODN 04-05 MODN 05-01 MODN 05-03 MODN 05-04 MODN 05-05 MODN 05-05 MODN 05-06 MODN 05-07 MODN 05-12 MODN 05-12 MODN 05-14 MODN 05-16 MODN 05-16 MODN 05-16 MODN 05-22 MODN 05-23 MODN 05-24 MODN 05-25 MODN 05-25 MODN 05-26 MODN 05-27 MODN 05-28 MODN 05-29 MODN 05-29 MODN 05-24 MODN 05-29 MODN 05-33 MODN 05-24 MODN 05-33 MODN 05-24 MODN 05-25 MODN 05-26 MODN 05-27 MODN 05-28 MODN 05-29 MODN 05-33 MODN 05-33 MODN 05-34 MODN 05-35 MODN 05-36 MODN 05-36 MODN 05-27 MODN 05-37 MODN 05-38 MODN 05-38 MODN 05-38 MODN 05-39 MODN 05-38 MODN 05-34	MODN_02_14				
MODN, 02, 17 MODN, 02, 18 MODN, 02, 19 MODN, 02, 20 MODN, 02, 21 MODN, 02, 23 MODN, 03, 23 MODN, 03, 23 MODN, 03, 01 MODN, 04, 01 MODN, 04, 01 MODN, 04, 03 MODN, 04, 03 MODN, 04, 03 MODN, 04, 05 MODN, 05, 02 MODN, 05, 03 MODN, 05, 03 MODN, 05, 05 MODN, 05, 06 MODN, 05, 07 MODN, 05, 07 MODN, 05, 09 MODN, 05, 11 MODN, 05, 11 MODN, 05, 11 MODN, 05, 11 MODN, 05, 13 MODN, 05, 14 MODN, 05, 15 MODN, 05, 15 MODN, 05, 16 MODN, 05, 17 MODN, 05, 18 MODN, 05, 18 MODN, 05, 19 MODN, 05, 11 MODN, 05, 11 MODN, 05, 11 MODN, 05, 11 MODN, 05, 12 MODN, 05, 13 MODN, 05, 14 MODN, 05, 15 MODN, 05, 16 MODN, 05, 16 MODN, 05, 17 MODN, 05, 18 MODN, 05, 22 MODN, 05, 22 MODN, 05, 22 MODN, 05, 24 MODN, 05, 27 MODN, 05, 28 MODN, 05, 29 MODN, 05, 29 MODN, 05, 21 MODN, 05, 21 MODN, 05, 22 MODN, 05, 22 MODN, 05, 23 MODN, 05, 24 MODN, 05, 27 MODN, 05, 33 MODN, 05, 31 MODN, 05, 31 MODN, 05, 32 MODN, 05, 33 MODN, 05, 35 MODN, 05, 36 MODN, 05, 36 MODN, 05, 37 MODN, 05, 38 MODN, 05, 39 MODN, 05, 39 MODN, 05, 30 MODN, 05, 30 MODN, 05, 30 MODN, 05, 31 MODN, 05, 35 MODN, 05, 36 MODN, 05, 44 MODN, 05, 44	MODN_02_15				
MODN, 02-18 MODN, 02-19 MODN, 02-19 MODN, 02-21 MODN, 02-21 MODN, 02-22 MODN, 02-22 MODN, 02-23 MODN, 02-23 MODN, 03-10 MODN, 04-04 MODN, 04-04 MODN, 04-04 MODN, 04-04 MODN, 04-04 MODN, 04-04 MODN, 04-05 MODN, 05-03 MODN, 05-22 MODN, 05-24 MODN, 05-26 MODN, 05-26 MODN, 05-26 MODN, 05-27 MODN, 05-28 MODN, 05-29 MODN, 05-33 MODN, 05-33 MODN, 05-33 MODN, 05-33 MODN, 05-33 MODN, 05-33 MODN, 05-34 MODN, 05-35 MODN, 05-35 MODN, 05-36 MODN, 05-36 MODN, 05-37 MODN, 05-38 MODN, 05-39 MODN, 05-40 MO	MODN_02_16				
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MODN 04 01 MODN 04 02 MODN 04 02 MODN 04 02 MODN 04 04 MODN 04 05 MODN 05 01 MODN 05 01 MODN 05 03 MODN 05 06 MODN 05 06 MODN 05 06 MODN 05 08 MODN 05 08 MODN 05 08 MODN 05 08 MODN 05 11 MODN 05 11 MODN 05 11 MODN 05 11 MODN 05 15 MODN 05 11 MODN 05 11 MODN 05 15 MODN 05 11 MODN 05 15 MODN 05 11 MODN 05 15 MODN 05 15 MODN 05 15 MODN 05 16 MODN 05 17 MODN 05 18 MODN 05 18 MODN 05 10 MODN 05 20 MODN 05 20 MODN 05 20 MODN 05 21 MODN 05 25 MODN 05 26 MODN 05 26 MODN 05 27 MODN 05 30 MODN 05 31 MODN 05 32 MODN 05 31 MODN 05 33 MODN 05 36 MODN 05 37 MODN 05 37 MODN 05 38 MODN 05 39 MODN 05 30 MODN 05 30 MODN 05 340 MODN 05 340 MODN 05 340 MODN 05 37 MODN 05 38 MODN 05 39 MODN 05 30 MODN 05 340 MODN 05 340 MODN 05 340 MODN 05 341 MODN 05 341 MODN 05 340 MODN 05 341 MODN 05 342 MODN 05 344 MODN 05 344 MODN 05 35 MODN 05 344 MODN 05 344 MODN 05 35 MODN 05 364					
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MODN_05_03 MODN_05_04 MODN_05_05 MODN_05_06 MODN_05_07 MODN_05_07 MODN_05_08 MODN_05_08 MODN_05_10 MODN_05_11 MODN_05_11 MODN_05_11 MODN_05_12 MODN_05_13 MODN_05_14 MODN_05_16 MODN_05_16 MODN_05_16 MODN_05_18 MODN_05_18 MODN_05_18 MODN_05_19 MODN_05_20 MODN_05_21 MODN_05_22 MODN_05_23 MODN_05_24 MODN_05_25 MODN_05_26 MODN_05_27 MODN_05_28 MODN_05_29 MODN_05_30 MODN_05_31 MODN_05_31 MODN_05_32 MODN_05_32 MODN_05_33 MODN_05_34 MODN_05_35 MODN_05_36 MODN_05_36 MODN_05_37 MODN_05_38 MODN_05_39 MODN_05_30 MODN_05_31 MODN_05_31 MODN_05_33 MODN_05_34 MODN_05_35 MODN_05_36 MODN_05_36 MODN_05_36 MODN_05_37 MODN_05_37 MODN_05_38 MODN_05_38 MODN_05_39 MODN_05_39 MODN_05_36 MODN_05_36 MODN_05_37 MODN_05_38 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_36 MODN_05_36 MODN_05_37 MODN_05_39 MODN_05_42	MODN_05_01				
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MODN_05_09 MODN_05_10 MODN_05_11 MODN_05_11 MODN_05_12 MODN_05_13 MODN_05_14 MODN_05_14 MODN_05_15 MODN_05_16 MODN_05_16 MODN_05_16 MODN_05_17 MODN_05_18 MODN_05_19 MODN_05_20 MODN_05_21 MODN_05_21 MODN_05_22 MODN_05_23 MODN_05_23 MODN_05_25 MODN_05_26 MODN_05_26 MODN_05_27 MODN_05_28 MODN_05_29 MODN_05_29 MODN_05_29 MODN_05_29 MODN_05_30 MODN_05_30 MODN_05_31 MODN_05_31 MODN_05_32 MODN_05_33 MODN_05_34 MODN_05_35 MODN_05_35 MODN_05_36 MODN_05_36 MODN_05_37 MODN_05_37 MODN_05_38 MODN_05_38 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_36 MODN_05_37 MODN_05_37 MODN_05_38 MODN_05_38 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_36 MODN_05_37 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_40 MODN_05_41 MODN_05_41					
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MODN_05_11 MODN_05_11 MODN_05_13 MODN_05_13 MODN_05_14 MODN_05_15 MODN_05_16 MODN_05_16 MODN_05_17 MODN_05_17 MODN_05_18 MODN_05_19 MODN_05_19 MODN_05_20 MODN_05_21 MODN_05_22 MODN_05_23 MODN_05_24 MODN_05_25 MODN_05_26 MODN_05_26 MODN_05_27 MODN_05_26 MODN_05_27 MODN_05_28 MODN_05_29 MODN_05_29 MODN_05_30 MODN_05_31 MODN_05_32 MODN_05_32 MODN_05_33 MODN_05_33 MODN_05_35 MODN_05_36 MODN_05_37 MODN_05_37 MODN_05_38 MODN_05_38 MODN_05_37 MODN_05_38 MODN_05_37 MODN_05_38 MODN_05_38 MODN_05_37 MODN_05_38 MODN_05_38 MODN_05_39 MODN_05_37 MODN_05_38 MODN_05_38 MODN_05_38 MODN_05_39 MODN_05_37 MODN_05_38 MODN_05_38 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_30 MODN_05_37 MODN_05_38 MODN_05_39 MODN_05_40 MODN_05_41					
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MODN_05_13 MODN_05_14 MODN_05_16 MODN_05_16 MODN_05_17 MODN_05_18 MODN_05_19 MODN_05_20 MODN_05_21 MODN_05_21 MODN_05_22 MODN_05_23 MODN_05_24 MODN_05_25 MODN_05_25 MODN_05_26 MODN_05_26 MODN_05_27 MODN_05_28 MODN_05_29 MODN_05_29 MODN_05_30 MODN_05_31 MODN_05_31 MODN_05_31 MODN_05_32 MODN_05_33 MODN_05_34 MODN_05_35 MODN_05_36 MODN_05_37 MODN_05_36 MODN_05_37 MODN_05_38 MODN_05_38 MODN_05_39 MODN_05_39 MODN_05_37 MODN_05_38 MODN_05_38 MODN_05_37 MODN_05_38 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_36 MODN_05_37 MODN_05_38 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_30 MODN_05_39 MODN_05_39 MODN_05_30 MODN_05_30 MODN_05_39 MODN_05_30 MODN_05_40 MODN_05_41					
MODN_05_14 MODN_05_15 MODN_05_16 MODN_05_17 MODN_05_18 MODN_05_19 MODN_05_20 MODN_05_21 MODN_05_21 MODN_05_22 MODN_05_23 MODN_05_23 MODN_05_24 MODN_05_25 MODN_05_26 MODN_05_26 MODN_05_27 MODN_05_28 MODN_05_29 MODN_05_29 MODN_05_30 MODN_05_31 MODN_05_30 MODN_05_31 MODN_05_31 MODN_05_32 MODN_05_32 MODN_05_32 MODN_05_33 MODN_05_34 MODN_05_34 MODN_05_35 MODN_05_36 MODN_05_36 MODN_05_36 MODN_05_37 MODN_05_38 MODN_05_38 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_36 MODN_05_37 MODN_05_38 MODN_05_38 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_30 MODN_05_30 MODN_05_31 MODN_05_36 MODN_05_37 MODN_05_37 MODN_05_38 MODN_05_39 MODN_05_39 MODN_05_40 MODN_05_41					
MODN_05_16 MODN_05_17 MODN_05_18 MODN_05_19 MODN_05_19 MODN_05_20 MODN_05_21 MODN_05_22 MODN_05_23 MODN_05_24 MODN_05_25 MODN_05_26 MODN_05_26 MODN_05_26 MODN_05_27 MODN_05_28 MODN_05_29 MODN_05_30 MODN_05_31 MODN_05_31 MODN_05_32 MODN_05_32 MODN_05_33 MODN_05_34 MODN_05_36 MODN_05_36 MODN_05_36 MODN_05_36 MODN_05_36 MODN_05_37 MODN_05_38 MODN_05_38 MODN_05_38 MODN_05_38 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_36 MODN_05_36 MODN_05_37 MODN_05_38 MODN_05_38 MODN_05_38 MODN_05_39 MODN_05_30 MODN_05_30 MODN_05_31 MODN_05_31 MODN_05_32 MODN_05_33 MODN_05_34 MODN_05_36 MODN_05_37 MODN_05_38 MODN_05_39 MODN_05_40 MODN_05_41					
MODN_05_16 MODN_05_17 MODN_05_18 MODN_05_19 MODN_05_20 MODN_05_21 MODN_05_22 MODN_05_22 MODN_05_23 MODN_05_25 MODN_05_25 MODN_05_25 MODN_05_26 MODN_05_26 MODN_05_27 MODN_05_28 MODN_05_28 MODN_05_29 MODN_05_30 MODN_05_31 MODN_05_31 MODN_05_32 MODN_05_33 MODN_05_33 MODN_05_33 MODN_05_34 MODN_05_35 MODN_05_35 MODN_05_36 MODN_05_36 MODN_05_37 MODN_05_38 MODN_05_38 MODN_05_38 MODN_05_38 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_36 MODN_05_37 MODN_05_38 MODN_05_38 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_31 MODN_05_36 MODN_05_37 MODN_05_38 MODN_05_39 MODN_05_39 MODN_05_34 MODN_05_39 MODN_05_34 MODN_05_34 MODN_05_36 MODN_05_37 MODN_05_38 MODN_05_39 MODN_05_34					
MODN_05_17 MODN_05_18 MODN_05_19 MODN_05_20 MODN_05_21 MODN_05_22 MODN_05_22 MODN_05_23 MODN_05_24 MODN_05_25 MODN_05_25 MODN_05_26 MODN_05_27 MODN_05_28 MODN_05_29 MODN_05_29 MODN_05_30 MODN_05_31 MODN_05_31 MODN_05_31 MODN_05_32 MODN_05_33 MODN_05_34 MODN_05_35 MODN_05_36 MODN_05_36 MODN_05_37 MODN_05_37 MODN_05_38 MODN_05_38 MODN_05_39 MODN_05_30 MODN_05_31 MODN_05_31 MODN_05_34 MODN_05_35 MODN_05_36 MODN_05_37 MODN_05_38 MODN_05_39 MODN_05_40 MODN_05_41					
MODN_05_18 MODN_05_19 MODN_05_20 MODN_05_21 MODN_05_21 MODN_05_23 MODN_05_23 MODN_05_24 MODN_05_25 MODN_05_26 MODN_05_26 MODN_05_27 MODN_05_28 MODN_05_29 MODN_05_30 MODN_05_31 MODN_05_31 MODN_05_32 MODN_05_33 MODN_05_33 MODN_05_34 MODN_05_35 MODN_05_35 MODN_05_36 MODN_05_36 MODN_05_37 MODN_05_38 MODN_05_38 MODN_05_39 MODN_05_340 MODN_05_39 MODN_05_340 MODN_05_39 MODN_05_341 MODN_05_39 MODN_05_340 MODN_05_340 MODN_05_341 MODN_05_342					
MODN_05_19 MODN_05_20 MODN_05_21 MODN_05_22 MODN_05_23 MODN_05_23 MODN_05_25 MODN_05_25 MODN_05_26 MODN_05_27 MODN_05_28 MODN_05_28 MODN_05_29 MODN_05_30 MODN_05_31 MODN_05_31 MODN_05_32 MODN_05_32 MODN_05_33 MODN_05_33 MODN_05_34 MODN_05_35 MODN_05_35 MODN_05_36 MODN_05_36 MODN_05_37 MODN_05_38 MODN_05_38 MODN_05_39 MODN_05_30 MODN_05_30 MODN_05_31 MODN_05_31 MODN_05_31 MODN_05_32 MODN_05_34 MODN_05_36 MODN_05_37 MODN_05_37 MODN_05_38 MODN_05_39 MODN_05_39 MODN_05_40 MODN_05_40 MODN_05_41					
MODN_05_20 MODN_05_21 MODN_05_22 MODN_05_23 MODN_05_23 MODN_05_25 MODN_05_26 MODN_05_26 MODN_05_27 MODN_05_28 MODN_05_29 MODN_05_30 MODN_05_30 MODN_05_31 MODN_05_32 MODN_05_32 MODN_05_32 MODN_05_33 MODN_05_34 MODN_05_35 MODN_05_36 MODN_05_36 MODN_05_37 MODN_05_38 MODN_05_38 MODN_05_39 MODN_05_30 MODN_05_30 MODN_05_31 MODN_05_31 MODN_05_32 MODN_05_33					
MODN_05_21 MODN_05_22 MODN_05_23 MODN_05_24 MODN_05_25 MODN_05_25 MODN_05_26 MODN_05_27 MODN_05_28 MODN_05_29 MODN_05_30 MODN_05_31 MODN_05_31 MODN_05_33 MODN_05_33 MODN_05_34 MODN_05_35 MODN_05_36 MODN_05_36 MODN_05_37 MODN_05_38 MODN_05_38 MODN_05_38 MODN_05_38 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_40 MODN_05_41 MODN_05_41					
MODN_05_22 MODN_05_23 MODN_05_24 MODN_05_25 MODN_05_26 MODN_05_27 MODN_05_28 MODN_05_28 MODN_05_29 MODN_05_30 MODN_05_31 MODN_05_31 MODN_05_32 MODN_05_33 MODN_05_33 MODN_05_35 MODN_05_36 MODN_05_36 MODN_05_37 MODN_05_38 MODN_05_38 MODN_05_39 MODN_05_40 MODN_05_41 MODN_05_41	MODN_05_20				
MODN_05_23 MODN_05_24 MODN_05_25 MODN_05_26 MODN_05_27 MODN_05_28 MODN_05_29 MODN_05_30 MODN_05_31 MODN_05_31 MODN_05_32 MODN_05_33 MODN_05_33 MODN_05_35 MODN_05_35 MODN_05_36 MODN_05_36 MODN_05_37 MODN_05_38 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_39 MODN_05_40 MODN_05_41 MODN_05_42					
MODN_05_24 MODN_05_25 MODN_05_26 MODN_05_27 MODN_05_28 MODN_05_29 MODN_05_30 MODN_05_31 MODN_05_31 MODN_05_32 MODN_05_33 MODN_05_33 MODN_05_34 MODN_05_35 MODN_05_36 MODN_05_36 MODN_05_37 MODN_05_39 MODN_05_40 MODN_05_41 MODN_05_42					
MODN_05_25 MODN_05_26 MODN_05_27 MODN_05_28 MODN_05_29 MODN_05_30 MODN_05_31 MODN_05_32 MODN_05_32 MODN_05_33 MODN_05_34 MODN_05_35 MODN_05_36 MODN_05_37 MODN_05_38 MODN_05_38 MODN_05_39 MODN_05_40 MODN_05_41 MODN_05_42					
MODN_05_26 MODN_05_27 MODN_05_28 MODN_05_29 MODN_05_30 MODN_05_31 MODN_05_32 MODN_05_33 MODN_05_34 MODN_05_35 MODN_05_36 MODN_05_37 MODN_05_38 MODN_05_39 MODN_05_40 MODN_05_41 MODN_05_42					
MODN_05_27 MODN_05_28 MODN_05_29 MODN_05_30 MODN_05_31 MODN_05_32 MODN_05_33 MODN_05_34 MODN_05_35 MODN_05_36 MODN_05_37 MODN_05_38 MODN_05_39 MODN_05_40 MODN_05_41 MODN_05_42					
MODN_05_28 MODN_05_29 MODN_05_30 MODN_05_31 MODN_05_32 MODN_05_33 MODN_05_34 MODN_05_35 MODN_05_36 MODN_05_37 MODN_05_38 MODN_05_38 MODN_05_39 MODN_05_40 MODN_05_41 MODN_05_42					
MODN_05_29 MODN_05_30 MODN_05_31 MODN_05_32 MODN_05_33 MODN_05_33 MODN_05_34 MODN_05_35 MODN_05_36 MODN_05_37 MODN_05_38 MODN_05_38 MODN_05_39 MODN_05_40 MODN_05_41 MODN_05_42					
MODN_05_30 MODN_05_31 MODN_05_32 MODN_05_32 MODN_05_33 MODN_05_34 MODN_05_35 MODN_05_36 MODN_05_37 MODN_05_38 MODN_05_39 MODN_05_40 MODN_05_41 MODN_05_42				1	
MODN_05_31 MODN_05_32 MODN_05_33 MODN_05_34 MODN_05_35 MODN_05_36 MODN_05_37 MODN_05_38 MODN_05_39 MODN_05_40 MODN_05_41 MODN_05_42				1	
MODN_05_32 MODN_05_33 MODN_05_34 MODN_05_35 MODN_05_36 MODN_05_37 MODN_05_38 MODN_05_38 MODN_05_39 MODN_05_40 MODN_05_41 MODN_05_42					
MODN_05_33					
MODN_05_34 MODN_05_35 MODN_05_36 MODN_05_37 MODN_05_38 MODN_05_39 MODN_05_40 MODN_05_41 MODN_05_42				1	
MODN_05_35 MODN_05_36 MODN_05_37 MODN_05_38 MODN_05_39 MODN_05_40 MODN_05_41 MODN_05_42				1	
MODN_05_36 MODN_05_37 MODN_05_38 MODN_05_39 MODN_05_40 MODN_05_41 MODN_05_42				1	
MODN_05_37 MODN_05_38 MODN_05_39 MODN_05_40 MODN_05_41 MODN_05_42					
MODN_05_38 MODN_05_39 MODN_05_40 MODN_05_41 MODN_05_42					
MODN_05_39 MODN_05_40 MODN_05_41 MODN_05_42				1	
MODN_05_40 MODN_05_41 MODN_05_42				1	
MODN_05_41					
MODN_05_42				1	
				1	
MODN_05_43	MODN_05_42				
	MODN_05_43				

A.7 Observations Additional information relevant to the technical content of the PCTR are given here.

Annex B (normative): Partial PIXIT proforma

Notwithstanding the provisions of the copyright clause related to the text of the present document, ETSI grants that users of the present document may freely reproduce the partial PIXIT proforma in this annex so that it can be used for its intended purposes and may further publish the completed PIXIT.

B.1	B.1 Identification summary		
PIXIT Numb	ber:		
Test Laborat	tory Name:		
D			
Date of Issue	e:		
Issued to:			
B.2	Abstract test suite summary		
Protocol Spe	ecification: EN 301 003-1		
ATS Specific	cation: EN 301 003-6		
Abstract Tes	st Method: Multi-party test method (see ISO/IEC 9646-2)		
B.3	Test laboratory		
Test Laborat	tory Identification:		
Accreditation	n status of the test service:		
Accreditation	n reference:		
Test Laboratory Manager:			
Test Laborat	tory contact:		
Means of Te	Means of Testing:		

Test Laboratory instructions for Completion:		
B.4 Client (of the Test Laboratory) Client Identification:		
Client Test manager:		
Client contact:		
Test Facilities required:		
B.5 SUT		
Name:		
Version:		
SCS Reference:		
Machine configuration:		
Operating System Identification:		
IUT Identification:		
PICS (all layers):		
Limitations of the SUT:		
Environmental Conditions:		

B.6 Protocol information

B.6.1 Protocol identification

Specification reference: EN 301 003-1

Protocol Version:

PICS Reference:

NOTE: The PICS Reference should reference a completed PICS which is conformant with the PICS proforma contained in EN 300 443-2 and EN 301 003-2.

B.6.2 Configuration to be tested

Table B.1: Configuration to be tested

Item	Configuration Is the access to be tested	Supported Y/N
1.1	releasing layer 2 after entering the Null link state No?	

B.6.3 Test management timers

Table B.2: Timer values

Item	Timer	Value		
	Give a value for the timer that is used	(in seconds)		
3.1	a user side value for T313 (default value 4 seconds).			
3.2	to wait for the IUT to respond to a stimulus sent by the tester (TAC).			
3.3	to control that the IUT does not respond to a stimulus sent by the tester (TNOAC).			
3.4	to wait for the test operator to perform an implicit send action (TWAIT).			
NOTE:	e IUT provider may fill in a value range rather than a fixed value for the test management timers. During at execution the test laboratory will choose specific values for the timers dependant on the means of sting used. These specific values may even be beyond the range given by the IUT provider, if this is cessary for achieving satisfactory test results.			

B.6.4 Parameter Values

Table B.3: Parameter values

Item	Parameter values	Value
	Give	
4.1	a coding of a Bearer capability information element, which the IUT	
	is compatible with, for the purpose of accepting incoming calls.	
4.2	a coding of the Type of number and the Addressing/Numbering	
	plan identification fields of the Called party number information	
	elements to be sent to the IUT.	
4.3	a coding of the number digits of the access related to the PTC1.	
4.4	a coding of the number digits of the access related to the MTC.	
4.5	a coding of the ATM traffic descriptor (octet 5 onwards) to be sent	
	to the IUT at call establishment.	
4.6	a coding of the ATM traffic descriptor (octet 5 onwards) to be sent	
	to the IUT at modification request.	
4.7	a coding of an incompatible ATM traffic descriptor (octet 5	
	onwards) to be sent to the IUT at modification request.	
4.8	a coding of a not supported ATM traffic descriptor (octet 5	
	onwards) to be sent to the IUT at modification request.	
4.9	a value for the preferred VPCI.	
4.10	a value for the preferred VCI.	
4.11	a value for an unrecognized message type.	
4.12	a value for an unrecognized information element identifier.	

Annex C (normative): Abstract Test Suite (ATS)

This ATS has been produced using the Tree and Tabular Combined Notation (TTCN) according to ISO/IEC 9646-3 [8].

The ATS was developed on a separate TTCN software tool and therefore the TTCN tables are not completely referenced in the table of contents. The ATS itself contains a test suite overview part which provides additional information and references.

C.1 The TTCN Graphical form (TTCN.GR)

The TTCN.GR representation of this ATS is contained in an Adobe Portable Document FormatTM file (003_6_1.PDF contained in archive 9adi0idc.ZIP) which accompanies the present document.

C.2 The TTCN Machine Processable form (TTCN.MP)

The TTCN.MP representation corresponding to this ATS is contained in an ASCII file (003_6_1.MP contained in archive 9adi0idc.ZIP) which accompanies the present document.

Bibliography

The following material, though not specifically referenced in the body of the present document (or not publicly available), gives supporting information.

- ETS 300 406: "Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".

History

		Document history		
V1.1.1	April 1999	Public Enquiry	PE 9935:	1999-04-30 to 1999-08-27
V1.1.2	September 1999	Vote	V 9949:	1999-09-21 to 1999-11-19