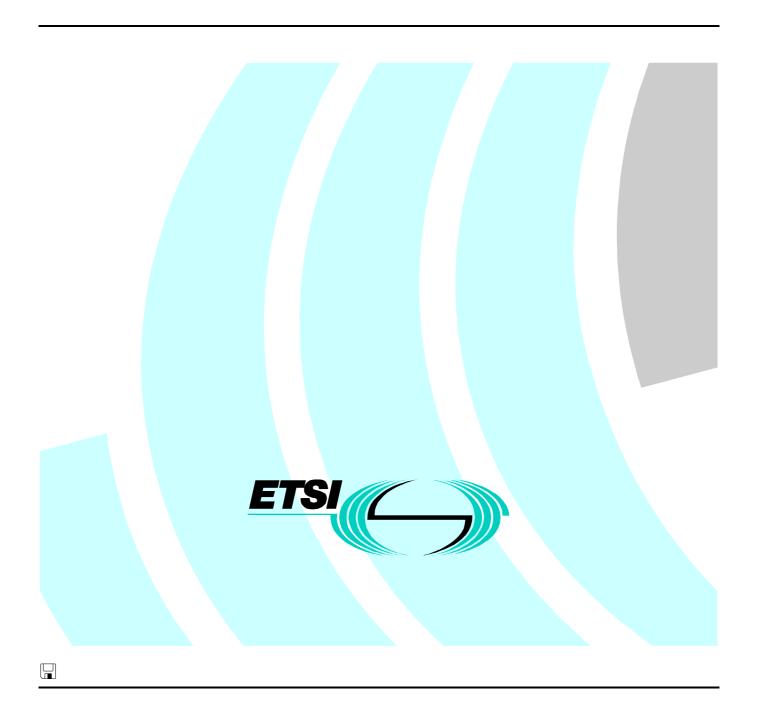
ETSI EN 301 068-4 V1.1.1 (2000-10)

European Standard (Telecommunications series)

Broadband Integrated Services Digital Network (B-ISDN);
Digital Subscriber Signalling System No. two (DSS2) protocol;
Connection characteristics;
ATM transfer capability and traffic parameter indication;
Part 4: Abstract Test Suite (ATS) and partial Protocol
Implementation eXtra Information for Testing (PIXIT)
proforma specification for the user



Reference

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Keywords

B-ISDN, DSS2, ATM, testing, ATS, PIXIT, UNI

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Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Services and Protocols for Advanced Networks (SPAN).

The present document is part 4 of a multi-part deliverable covering the Digital Subscriber Signalling System No. 2 (DSS2) protocol specification for the B-ISDN ATM transfer capability and traffic parameter indication, as identified below:

- Part 1: "Protocol specification [ITU-T Recommendations Q.2961.1 (1995), Q.2961.2 (1997), Q.2961.3 (1997), Q.2961.4 (1997), modified]";
- 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".

National transposition dates			
Date of adoption of this EN:	6 October 2000		
Date of latest announcement of this EN (doa):	31 January 2001		
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 July 2001		
Date of withdrawal of any conflicting National Standard (dow):	31 July 2001		

1 Scope

This fourth part of EN 301 068 specifies the user 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 [6]) of implementations conforming to the standards for the signalling user-network layer 3 specification for ATM transfer capability and traffic parameter indication of the Digital Subscriber Signalling System No. two (DSS2) protocol for the pan-European Broadband Integrated Services Digital Network (B-ISDN), EN 301 068-1 [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 Network side of the T_B reference point or coincident S_B and T_B reference point of implementations conforming to EN 301 068-1 [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] ETSI EN 301 068-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Connection characteristics; ATM transfer capability and traffic parameter indication; Part 1: Protocol specification [ITU-T Recommendations Q.2961.1 (1995), Q.2961.2 (1997), Q.2961.3 (1997), Q.2961.4 (1997), modified]".
- [2] ETSI EN 301 068-2: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Connection characteristics; ATM transfer capability and traffic parameter indication; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".
- [3] ISO/IEC 9646-1: "Information technology; Open Systems Interconnection; Conformance testing methodology and framework; Part 1: General concepts".
- [4] ISO/IEC 9646-2: "Information technology; Open Systems Interconnection; Conformance testing methodology and framework; Part 2: Abstract Test Suite specification".
- [5] ISO/IEC 9646-3: "Information technology; Open Systems Interconnection; Conformance testing methodology and framework; Part 3: The Tree and Tabular Combined Notation (TTCN)".
- [6] ITU-T Recommendation I.413 (1993): "B-ISDN user-network interface".
- [7] ETSI 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]".
- [8] ISO/IEC 9646-4: "Information technology; Open Systems Interconnection; Conformance testing methodology and framework; Part 4: Test realization".
- [9] ISO/IEC 9646-5: "Information technology; Open Systems Interconnection; Conformance testing methodology and framework; Part 5: Requirements on test laboratories and clients for the conformance assessment process".

[10] ETSI 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".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the following terms and definitions apply, in addition to those given in EN 301 068-1 [1] and EN 300 443-1 [7].

3.1.1 Definitions related to conformance testing

Abstract test case: refer to ISO/IEC 9646-1 [3]

Abstract Test Method (ATM): refer to ISO/IEC 9646-1 [3]

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

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

System Under Test (SUT): see ISO/IEC 9646-1 [3]

Upper Tester (UT): see ISO/IEC 9646-1 [3]

Lower tester: 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]

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

Point of Control and Observation (PCO): see ISO/IEC 9646-1 [3]

3.1.2 Definitions related to EN 301 068-1

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

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

user (**TB**): DSS2 protocol entity at the User side of the user-network interface where a TB 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

CR Call Reference

DSS2 Digital Subscriber Signalling System No. two IE_flag Information element instruction indicator flag

IE AI Information element action indicator

IUT Implementation Under Test

PCR Peak Cell Rate

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

TSS Test Suite Structure
ExTS Executable Test Suite
LT Lower Tester

MOT Lower Tester

MoT Means Of Testing

PCO Point of Control and Observation

PDU Protocol Data Unit SUT System Under Test TP Test Purpose

TTCN Tree and Tabular Combined Notation

UT Upper Tester U0 Null link state

U1 Call Initiated link state

U3 Outgoing Call Proceeding link state

U4 Call Delivered link state
U6 Call Present link state
U7 Call Received link state
U8 Connect Request link state

U9 Incoming Call Proceeding link state

U10 Active link state

U12 Disconnect Indication call state
U13 Modify Requested call state
U14 Modify Received call state

VC Virtual Channel

VCI Virtual Channel Identifier VPC Virtual Path Connection

VPCI Virtual Path Connection Identifier

VP Virtual Path

VPI Virtual Path Identifier

4 Abstract Test Method (ATM)

The remote test method is applied for the user ATS. The Point of Control and Observation (PCO) resides at the service access point between layers 2 and 3. This PCO is named "L0" (for Lower). The L0 PCO is used to control and observe the behaviour of the Implementation Under Test (IUT) and test case verdicts are assigned depending on the behaviour observed at this PCO.

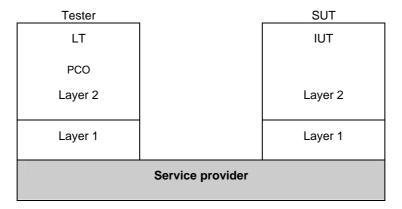


Figure 1: Remote test method

ISO/IEC 9646-2 [4] allows the informal expression of Test Co-ordination Procedures (TCP) between the System Under Test (SUT) upper layer(s) and the Lower Tester (LT). In the ATS contained in annex C, TCP is achieved by use of a second "informal" PCO, called "O" (for Operator). This PCO is used to specify control but not observation above the IUT and consequently, events at this PCO are never used to generate test case verdicts. The use of this O PCO is regarded as a preferred alternative to the use of the implicit send event, in that it allows the ATS to specify in a clear and meaningful way what actions are required to be performed on the IUT.

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 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 [9], to produce a PCTR conformant with the PCTR template given in annex B of ISO/IEC 9646-5 [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 [8], 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 [9], 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 [8]. 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 [9].

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 301 068-1
PICS:	
Previous PCTRs (if any)	

A.1.3 Testing environment

PIXIT Reference number:		
ATS Specification:	EN 301 068-4	
Abstract Test Method:	Remote 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 or 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".	ı
A.3 Static conformance summary	
The PICS for this IUT is or 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 or did not reveal errors in the IUT.	
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 at t	he coincident S _B /T _B	and at the T _B refer	ence points	
INDU_01_01				
INDU_01_02				
INDU_01_03				
INDU_02_01				
INDU_02_02				
INDU_02_03				
INDU_02_04				
INDU_02_05				
INDU_02_06				
INDU_02_07				
INDU_02_08				
INDU_02_09				
INDU_02_10				
INDU_03_01				
INDU_04_01				
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INDU_06_04				
INDU_06_05				
INDU_06_06				
INDU_06_07				
INDU_06_08				
INDU_07_01				
INDU_07_02	_			
INDU_08_01				
INDU_08_02				
INDU_08_03				
INDU_08_04				
INDU_08_05	_			
INDU_09_01				

ATS Reference	Selected ? (Y/N)	Run ? (Y/N)	Verdict	Observations
INDU_10_01				
INDU_10_02				
INDU_10_03				
INDU_10_04				
INDU_11_01				
INDU_11_02				
INDU_11_03				
INDU_11_04				
INDU_12_01				
INDU_12_02				
INDU_12_03				
INDU_12_04				
INDU_12_05				
INDU_12_06		<u> </u>		
INDU_12_07		·		
INDU_12_08		·		

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 PIXIT proforma in this annex so that it can be used for its intended purposes and may further publish the completed PIXIT.

B.1	Identification	n summary
PIXIT Num	ber:	
Test Labora	ntory Name:	
Date of Issu	ie:	
Issued to:		
B.2	Abstract tes	t suite summary
Protocol Sp	ecification:	EN 301 068-1
ATS Specif	ïcation:	EN 301 068-4
Abstract Te	st Method:	Remote test method (see ISO/IEC 9646-2)
B.3	Test laborat	ory
Test Labora	atory Identification:	
Accreditation	on status of the test service	:
Accreditation	on reference:	
Test Labora	ntory Manager:	
Test Labora	ntory contact:	

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 301 068-1

Protocol Version:

PICS Reference:

NOTE: The PICS Reference should reference a completed PICS which is conformant with the PICS proforma

contained in ETS 300 443-2 and EN 301 068-2.

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 U0?	
1.2	stable in Call Received link state U7 (i.e. CONNECT message is not sent automatically)?	

B.6.3 Test management timers

Table B.2: Timer values

Item	Timer Give a value for the timer that is used	Value (in seconds)
3.1	as network side value for T310 (default value 10 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: The IUT provider may fill in a value range rather than a fixed value for the test management timers. During test execution the test laboratory will choose specific values for the timers dependant on the means of testing used. These specific values may even be beyond the range given by the IUT provider, if this is necessary for achieving satisfactory test results.

B.6.4 Parameter Values

Table B.3: Parameter values

Item	Parameter values Give	Value		
4.1	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.			
4.2	a coding of the number digits to be sent to the IUT.			
4.3	a coding of the ATM traffic descriptor (octet 5 onwards) to be sent to the IUT at call establishment.			
4.4	a coding of a Bearer capability information element, which the IUT is compatible with, for the purpose of accepting incoming calls.			
4.5	a coding of a Bearer capability information element, which the IUT is compatible with, for the purpose of accepting incoming calls with ABR transfer capability.			
4.6	a coding of a Bearer capability information element, which the IUT is compatible with, for the purpose of accepting incoming calls including broadband transfer capability.			
4.7	a coding of a Bearer capability information element, which the IUT is incompatible with, for the purpose of accepting incoming calls.			
4.8	a coding of an compatible ABR set-up parameter ie (octet 5 onwards) to be sent to the IUT.			
4.9	a coding of an incompatible ABR set-up parameter ie (octet 5 onwards) to be sent to the IUT.			
4.10	a coding of the minimum acceptable ATM traffic descriptor (octet 5 onwards) to be sent to the IUT.			
4.11	a coding of the ATM traffic descriptor (octet 5 onwards) to be sent to the IUT.			
4.12	a coding of a compatible ATM traffic descriptor including sustainable cell rate parameter (octet 5 onwards) to be sent to the IUT.			
4.13	a coding of a compatible ATM traffic descriptor including MCR for ABR negotiation (octet 5 onwards) to be sent to the IUT.			
4.14	a coding of a not supported ATM traffic descriptor (octet 5 onwards) to be sent to the IUT.			
4.15	a coding of a compatible ATM traffic descriptor including RM pcr parameter for ATM block transfer negotiation (octet 5 onwards) to be sent to the IUT.			
4.16	a value for the preferred VPCI.			
4.17	a value for the preferred VCI.			

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 [5].

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 Format™ file (068_4_2.PDF contained in archive en_30106804v010101p0.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 (068_4_2.MP contained in archive en_30106804v010101p0.ZIP) which accompanies the present document.

NOTE: Where an ETSI Abstract Test Suite (in TTCN) is published in both .GR and .MP format these two forms shall be considered equivalent. In the event that there appears to be syntactical or semantic differences between the two then the problem shall be resolved and the erroneous format (whichever it is) shall be corrected.

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	December 1999	Public Enquiry	PE 200017: 1999-12-29 to 2000-04-28
V1.1.1	August 2000	Vote	V 20001006: 2000-08-07 to 2000-10-06
V1.1.1	October 2000	Publication	