

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

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**Reference**

REN/SPAN-05242-4

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**Keywords**ATM, ATS, B-ISDN, broadband, DSS2, ISDN,  
PIXIT, UNI, user**ETSI**

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Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

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## Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Services and Protocols for Advanced Networks (SPAN), and is now submitted for the ETSI Standards One-step Approval Procedure.

The present document is part 4 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 identified:

- Part 1: "Protocol specification [ITU-T Recommendation Q.2963.1 [12] (1996), 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".

<b>Proposed national transposition dates</b>	
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

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# 1 Scope

The present document 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 [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 Network 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] ETSI 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] ETSI 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] ETSI EN 301 003-3 (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 3: Test Suite Structure and Test Purposes (TSS&TP) specification for the user".
- [4] 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]".
- [5] 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".
- [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".
- [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): "Overview of Recommendations on Layer 1 for ISDN and B-ISDN customer accesses".
- [12] ITU-T Recommendation Q.2963.1 (1999): "Digital Subscriber Signalling System No. 2 - Connection modification: peak cell rate modification by the connection owner".

## 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 301 003-1 [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 (LT):** 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

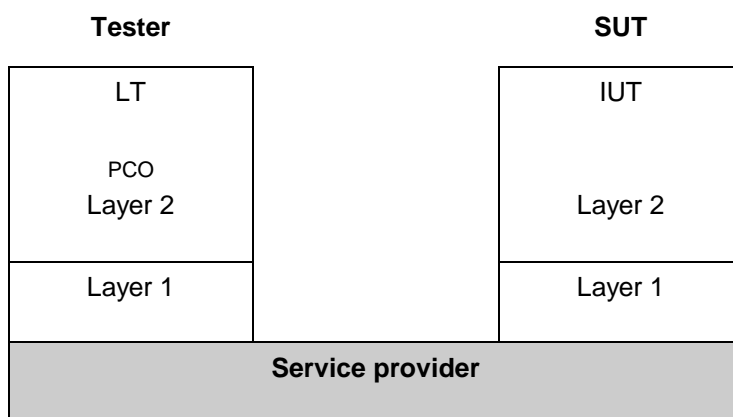
For the purposes of the present document, the following abbreviations apply:

ATM	Abstract Test Method
ATS	Abstract Test Suite
B-ISDN	Broadband Integrated Services Digital Network
DSS2	Digital Subscriber Signalling System No. two
ExTS	Executable Test Suite
IUT	Implementation Under Test
LT	Lower Tester
MOT	Means Of Testing
PCO	Point of Control and Observation
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation eXtra Information for Testing
SUT	System Under Test
TP	Test Purpose
TSS	Test Suite Structure
TTCN	Tree and Tabular Combined Notation
U0	Null link state
U7	Call Received link state
UT	Upper Tester
VCI	Virtual Channel Identifier
VP	Virtual Path
VPCI	Virtual Path Connection 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 [7] 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.



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## 5 Untestable test purposes

There are no untestable test purposes associated with this ATS.

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## 6 ATS to TP map

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

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## 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 9646-5 [10].

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.

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## 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.

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## 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 301 003-4
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.*

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## 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.*

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## 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.

*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:

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.....  
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## 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.*

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.....  
.....

## A.6 Test campaign report

ATS Reference	Selected ? (Y/N)	Run ? (Y/N)	Verdict	Observations
Signalling procedures at the coincident $S_B/T_B$ and at the $T_B$ reference points				
MODU_01_01				
MODU_01_02				
MODU_01_03				
MODU_01_04				
MODU_01_05				
MODU_01_06				
MODU_01_07				
MODU_01_08				
MODU_01_09				
MODU_01_10				
MODU_02_01				
MODU_03_01				
MODU_03_02				
MODU_03_03				
MODU_03_04				
MODU_03_05				
MODU_03_06				
MODU_03_07				
MODU_03_08				
MODU_03_09				
MODU_03_10				
MODU_03_11				
MODU_03_12				
MODU_03_13				
MODU_03_14				
MODU_03_15				
MODU_03_16				
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MODU_03_18				
MODU_03_19				
MODU_03_20				
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MODU_03_23				
MODU_03_24				
MODU_03_25				
MODU_03_26				
MODU_03_27				
MODU_03_28				
MODU_03_29				
MODU_03_30				
MODU_03_31				
MODU_03_32				
MODU_03_33				
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MODU_05_01				
MODU_06_01				
MODU_06_02				
MODU_06_03				
MODU_06_04				
MODU_06_05				
MODU_06_06				
MODU_06_07				
MODU_06_08				
MODU_06_09				

ATS Reference	Selected ? (Y/N)	Run ? (Y/N)	Verdict	Observations
Signalling procedures at the coincident S <sub>B</sub> /T <sub>B</sub> and at the T <sub>B</sub> reference points				
MODU_06_10				
MODU_06_11				
MODU_06_12				
MODU_06_13				
MODU_06_14				
MODU_06_15				
MODU_06_16				
MODU_06_17				
MODU_06_18				
MODU_06_19				
MODU_06_20				
MODU_06_21				
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MODU_06_36				
MODU_06_37				
MODU_06_38				
MODU_06_39				
MODU_06_40				
MODU_06_41				
MODU_06_42				
MODU_06_43				
MODU_06_44				
MODU_06_45				
MODU_06_46				
MODU_06_47				
MODU_06_48				
MODU_06_49				
MODU_06_50				
MODU_06_51				

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## A.7 Observations

*Additional information relevant to the technical content of the PCTR are given here.*

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## 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 summary

PIXIT Number:

.....

Test Laboratory Name:

.....

Date of Issue:

.....

Issued to:

.....

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### B.2 Abstract test suite summary

Protocol Specification: EN 301 003-1

ATS Specification: EN 301 003-4

Abstract Test Method: Remote test method (see ISO/IEC 9646-2)

---

### B.3 Test laboratory

Test Laboratory Identification:

.....

Accreditation status of the test service:

.....

Accreditation reference:

.....

Test Laboratory Manager:

.....

Test Laboratory contact:

.....

Means of Testing:

.....

Test Laboratory instructions for Completion:

.....

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## B.4 Client (of the Test Laboratory)

Client Identification:

.....

Client Test manager:

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Client contact:

.....

Test Facilities required:

.....

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## B.5 SUT

Name:

.....

Version:

.....

SCS Reference:

.....

Machine configuration:

.....

Operating System Identification:

.....

IUT Identification:

.....

PICS (all layers):

.....

.....

Limitations of the SUT:

.....

Environnemental 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 U0?	
1.2	stable in Call Received call state U7 (i.e. CONNECT message is not sent automatically)?	
1.3	stable in Incoming Call Proceeding call state U9 (i.e. ALERTING and CONNECT messages are not sent automatically)?	
1.4	stable in Modify Received call state U14 (i.e. MODIFY ACKNOWLEDGE 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**

<b>Item</b>	<b>Parameter values Give...</b>	<b>Value</b>
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 to be sent to the IUT.	
4.4	a coding of the ATM traffic descriptor (octet 5 onwards) to be sent to the IUT at call establishment.	
4.5	a coding of the ATM traffic descriptor (octet 5 onwards) to be sent to the IUT at modification request.	
4.6	a coding of an incompatible ATM traffic descriptor (octet 5 onwards) to be sent to the IUT at modification request.	
4.7	a value for the preferred VPCI.	
4.8	a value for the preferred VCI.	
4.9	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.

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 (003\_4\_2.PDF contained in archive en\_30100304v010201o0.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\_4\_2.MP contained in archive en\_30100304v010201o0.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.

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

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## History

<b>Document history</b>		
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