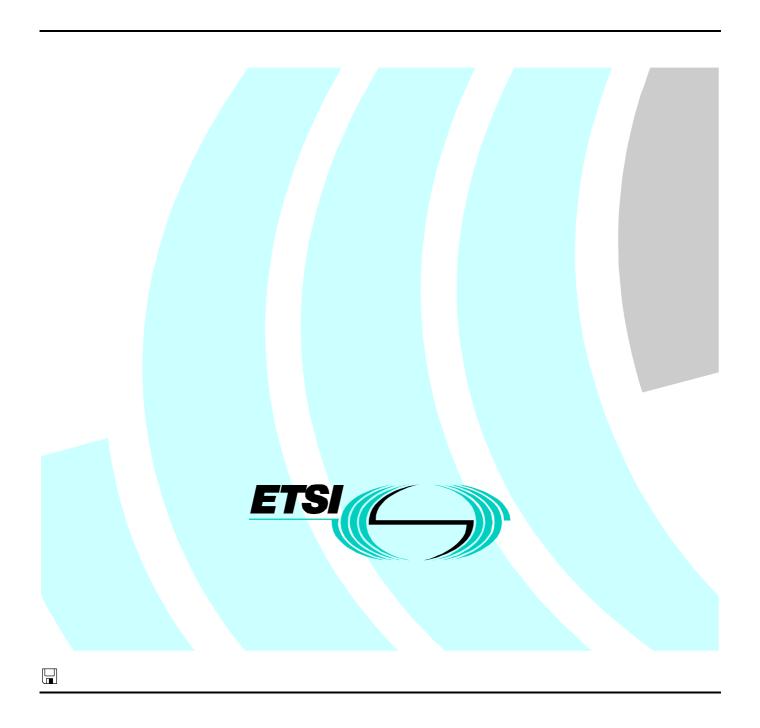
Draft ETSI EN 301 799-6 V1.1.1 (2001-02)

European Standard (Telecommunications series)

Integrated Services Digital Network (ISDN);
Remote Control (RC) supplementary service;
Digital Subscriber Signalling System No. one (DSS1) protocol;
Part 6: Abstract Test Suite (ATS) and partial Protocol
Implementation eXtra Information for Testing (PIXIT)
proforma specification for the network



Reference DEN/SPAN-130117-6

Keywords

ISDN, DSS1, supplementary service, RC, ATS, PIXIT, network

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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 Public Enquiry phase of the ETSI standards Two-step Approval Procedure.

The present document is part 6 of a multi-part deliverable, covering the Digital Subscriber Signalling System No. one (DSS1) protocol specification for the Integrated Services Digital Network (ISDN); Remote Control supplementary service, as described below:

- Part 1: "Functional 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

This sixth part of EN 301 799 specifies the Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma for the Network side of the T reference point or coincident S and T reference point of implementations conforming to the stage three standard for the Remote Control supplementary service for the pan-European Integrated Services Digital Network (ISDN) by means of the Digital Subscriber Signalling System No. one (DSS1) protocol, EN 301 799-1 [1].

EN 301 799-5 specifies the Test Suite Structure and Test Purposes (TSS&TP) related to this ATS and partial PIXIT proforma specification. Other parts specify the TSS&TP and the ATS and partial PIXIT proforma for the User side of the T reference point or coincident S and T reference point of implementations conforming to EN 301 799-1 [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, subsequent revisions do apply.
- [1] ETSI EN 301 799-1 (V1.1.1): "Integrated Services Digital Network (ISDN); Remote Control (RC) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Functional protocol specification".
- [2] ETSI EN 301 799-2 (V1.1.1): "Integrated Services Digital Network (ISDN); Remote Control (RC) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".
- [3] ETSI EN 301 799-5 (V1.1.1): "Integrated Services Digital Network (ISDN); Remote Control (RC) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 5: Test Suite Structure and Test Purposes (TSS&TP) specification for the network".
- [4] ISO/IEC 9646 (all parts): "Information technology Open Systems Interconnection Conformance testing methodology and framework".
- [5] ETSI TR 101 666: "Information technology Open Systems Interconnection Conformance testing methodology and framework; The Tree and Tabular Combined Notation (TTCN) (Ed. 2++)".
- [6] ISO/IEC 8825-1: "Information technology Encoding Rules for Abstract Syntax Notation One (ASN.1) Part 1: Specification of Basic Encoding Rules (BER), Canonical Encoding Rules (CER) and Distinguished Encoding Rules (DER)" (See also ITU-T Recommendation X.690): 1994.
- [7] ETSI EN 301 264: "Private Integrated Services Network (PISN); Inter-exchange signalling protocol; Advice of Charge (AoC) supplementary services [ISO/IEC 15050 (1997), modified]".
- [8] ETSI TR 101 101: "Methods for Testing and Specification (MTS); TTCN interim version including ASN.1 1994 support [ISO/IEC 9646-3] (Second Edition Mock-up for JTC1/SC21 Review)".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in ISO/IEC 9646 [4] apply.

3.2 Abbreviations

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

ASP **Abstract Service Primitive** ATM Abstract Test Method **ATS** Abstract Test Suite **BER Basic Encoding Rules** Co-ordination Message CM**Executable Test Suite ETS Executable Test Suite ExTS** FIE **Facility Information Element IUT** Implementation Under Test

LT Lower Tester
MOT Means Of Testing
MTC Main Test Component

PCO Point of Control and Observation
PCTR Protocol Conformance Test Report

PDU Protocol Data Unit

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

PTC Parallel Test Component

RC Remote Control SUT System Under Test

TCP Test Co-ordination Procedures

TP Test Purpose

TTCN Tree and Tabular Combined Notation

UT Upper Tester

4 Abstract Test Method (ATM)

The multi-party test method is applied for testing the IUT.

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 reference point or coincident S and T reference point applies. Thus the IUT is the network DSS1 protocol entity at a particular user-network interface and is not the whole network.

In practice the behaviour at a single user-network interface does not occur in isolation, but depends on the activity at other user-network interfaces. Therefore a multi-party test method is used.

The general configuration used is shown in Figure 1. In this ATS the PTCs act as slaves to the MTC; all active behaviour at the PTCs is initiated by CMs sent by the MTC and all verdicts are assigned by the MTC. Not all components are used in every test case.

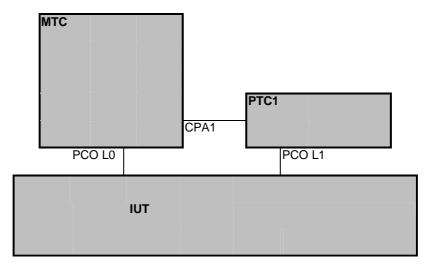


Figure 1: Multi-party test method

Not all components are used in every test case and the relationship between the IUT and the tester depends on the test group.

5 Untestable test purposes

There are no untestable test cases associated with this ATS and ATM.

6 ATS conventions

6.1 Version of TTCN used

The version of TTCN used is that defined in TR 101 666 [5].

6.2 Use of ASN.1

6.2.1 Situations where ASN.1 is used

ASN.1 has been used for three major reasons. First, types defined in ASN.1 can model problems that "pure" TTCN cannot. For instance, data structures modelling ordered or unordered sequences of data are preferably defined in ASN.1. Second, ASN.1 provides a better restriction mechanism for type definitions by using sub-type definitions. Third, it is necessary to use ASN.1 to reproduce the type definitions for remote operation components as specified in the base standards in ASN.1.

The possibility to use TTCN and ASN.1 in combination is used, i.e. referring to an ASN.1 type from a TTCN type.

6.2.2 Specification of encoding rules

There is a variation in the encoding rules applied to ASN.1 types and constraints specified in this ATS and therefore a mechanism is needed to differentiate the encoding rules. However the mechanism specified in ISO/IEC 9646-3/AM2 [4] and in TR 101 101 [8] does not facilitate definition of the encoding rules as needed for this ATS. A solution is therefore used which is broadly in the spirit of ISOIEC 9646-3/AM2 [4] in which comment fields have been used as a means of encoding rules.

For ASN.1 used in this ATS, two variations of encoding rules are used. One is the commonly known Basic Encoding Rules (BER) as specified in ISO/IEC 8825-1 [6]. In the second case the encoding is according to ISDN, i.e. the ASN.1 data types are a representation of structures contained within the ISDN specification (basic call, Generic functional protocol or individual supplementary service). For example, if octets of an information element are specified in ASN.1 as a SEQUENCE then this should be encoded in an Executable Test Suite (ETS) as any other ISDN information element specified using tabular TTCN. This ISDN encoding variation is the default encoding rule for this ATS. This means that all ASN.1 constraint tables are encoded using ISDN (non-BER) encoding unless stated otherwise. BER encoding should never be applied to an ASN.1 constraint where BER encoding has not been specified. This encoding rule is sometimes named "Direct Encoding".

For BER encoding, an indication is given in the comments field of the table header. For this ATS such indications appear in the ASN.1 type constraint declaration tables only. In the table header comment field, the notation "ASN1_Encoding: BER" is used.

In this particular ATS all ASN.1 type constraints which are of type "Component" are to be encoded using BER.

Table 1 shows an example of a ASN.1 type Constrained Declaration used in this ATS.

Table 1: ASN.1 type constraint declaration showing use of encoding variation

```
ASN.1 Type Constraint Declaration
Constraint Name : actRC Inv R1
ASN.1 Type
                : Component
Derivation Path :
                : received activationRC invoke component with don't care values.
Comments
                                             Description
ActRC
actRC_InvokeComp
{ invokeID ?
                 - invoke identifier don't care value
operation rCAct ,
 servedUserNr ? ,
   pin * tan *
Detailed comments :
```

7 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.

8 PCTR conformance

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

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.

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.

9 PIXIT conformance

A test realizer, producing an executable test suite for the ATS specification contained in annex C, is required, as specified in ISO/IEC 9646-4 [4], 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 IUT.

A test laboratory, offering testing for the ATS specification contained in annex C, is required, as specified in ISO/IEC 9646-5 [4], 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.

10 ATS conformance

The test realizer, producing MOT and ETS for this ATS specification, shall comply with the requirements of ISO/IEC 9646-4 [4]. In particular, these concern the realization of an ETS based on each ATS. The test realizer shall provide a statement of conformance of the MOT to this ATS specification.

An ETS 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 [4].

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 301 799-1
PICS:	
Previous PCTRs (if any):	

A.1.3 Testing environment

PIXIT reference number:	
ATS specification:	EN 301 799-2
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", otherwise strike the words "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 word "did", otherwise strike the words "did not". Summary of the results of groups of tests:

A.5 Static conformance review report

f clause A.3 indicates non-conformance, this clause itemizes the mismatches between the PICS and the static onformance requirements of the specified protocol specification.				

A.6 Test campaign report

ATS reference	Selected? (Y/N)	Run? (Y/N)	Verdict	Observations
RC_N01_001				
RC_N01_002				
RC_N01_003				
RC_N01_004				
RC_N01_005				
RC_N01_006				
RC_N01_007				
RC_N01_008				
RC_N01_009				
RC_N01_010				
RC_N01_011				
RC_N01_012				
RC_N01_013				
RC_N01_014				
RC_N02_001				
RC_N02_002				
RC_N02_003				
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RC_N03_001				
RC_N03_002				
RC_N03_003				
RC_N03_004				
RC_N03_005				
RC_N03_006				
RC_N03_007				
RC_N03_008				
RC_N03_009				
RC_N03_010				
RC_N03_011				
RC_N03_012				
RC_N03_013				
RC_N04_001	Т			
RC_N04_002				
RC_N04_003				
RC_N04_004	†			
RC_N04_005				
RC_N04_006				
RC_N04_007				
RC_N04_008				
RC_N04_009				
RC_N04_010				
RC_N04_011				
RC_N04_012	†			
	1		1	
RC_N05_001				

ATS reference	Selected? (Y/N)	Run? (Y/N)	Verdict	Observations
RC_N05_002				
RC_N05_003				
RC_N05_004				
RC_N05_005				
RC_N05_006				
RC_N05_007				
RC_N05_008				
RC_N05_009				
RC_N05_010				
RC_N05_011				
RC_N05_012				
RC_N06_001				
RC_N06_002				
RC_N06_003				
RC_N06_004				
RC_N06_005				
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RC_N08_006				
RC_N08_007				
RC_N08_008				
RC_N08_009				
RC_N08_010				
RC_N08_011				
RC_N08_012				
RC_N08_013				
RC_N09_001				
RC_N09_002				
RC_N09_003				
RC_N09_004				
-	•	•	•	

ATS reference	Selected? (Y/N)	Run? (Y/N)	Verdict	Observations
RC_N09_005				
RC_N09_006				
RC_N09_007				
RC_N09_008				
RC_N09_009				
RC_N09_010				
RC_N09_011				
RC_N09_012				
RC_N09_013				
RC_N09_014				
RC_N10_001				
RC_N10_002				
RC_N10_003				
RC_N10_004				
RC_N10_005				
RC_N10_006				
RC_N10_007				
RC_N10_008				
RC_N10_009				
RC_N10_010				
RC_N10_011				
RC_N10_012				
RC_N10_013				
RC_N10_014				
RC_N10_015				

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	Identification summary
PIXIT numb	er:
Test laborate	ry name:
Date of issue	:
Issued to:	

B.2 Abstract test suite summary

Protocol specification: EN 301 264

ATS specification: EN 301 799-2

Abstract test method: Multi-party test method (see ISO/IEC 9646-2)

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:

B.4	Client (of the test laboratory)
Client ident	ification:
Client test n	nanager:
Client conta	nct:
Test facilitie	es required:
B.5 Name:	System Under Test (SUT)
Version:	
SCS referen	nce:
Machine co	nfiguration:
Operating s	ystem identification:
IUT identifi	cation:
PICS (all la	yers):
Limitations	of the SUT:
Environmer	ntal conditions:

B.6 Protocol information

B.6.1 Protocol identification

Specification reference: EN 301 799-1

Protocol version:

PICS reference:

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

contained in EN 301 799-2.

B.6.2 Parameter values

Table B.1: Configuration aspects

Item	Question	Supported? (Y/N)	Allowed values	Value
1.1	What length of Call Reference is used?		1 for BA 2 for PRA	
1.2	Does the IUT need to activate the RC before to send a deactivation component?		Y/N	
1.3	Does the IUT need to deactivate the RC before to send an activation component again?		Y/N	
1.4	Does the IUT need to invoke the RC before to send a revoke component?		Y/N	
1.5	Does the IUT need to revoke the RC before to send a invokation component again?		Y/N	
1.6	Does the IUT send RESTART message after the re-establishment of the multiple frame operation?		Y/N	

B.6.3 Configuration of IUT

Table B.2: Actions required to configure the IUT

Item	Action:	Supported?	Stimulus (action taken)
	What actions, if possible, have to be taken to configure the IUT	(Y/N)	
2.1	so that the Remote Control service is not available.		
2.2	so that the Remote Control service is not available.		
2.3	so that deactivation and activation are not supported at the home location.		
2.4	so that the activation of the Remote Control service is precluded by a supplementary service interaction procedure.		
2.5	so that deactivation and activation are not supported at the remote location.		
2.6	so that deactivation and activation are not subscribed at the remote location.		
2.7	is forced to send the error value "userControlBolcked". After executing the corresponding test case, user control is not longer possible and the IUT has to be reseted.		

B.6.4 Parameter values

Table B.3: Parameter values

Item	Give an example of	Supported? (Y/N)	Allowed values	Value
3.1	a valid ServedUserNumber			
3.2	an valid ServedUserNumber			
3.3	a valid PIN number.			
3.4	an invalid PIN number.			
3.5	a PIN number that is expired.			
3.6	a valid TAN number for the first transaction. (note)			
3.7	a valid TAN number for the second transaction. (note)			
3.8	a valid TAN number for the third transaction. (note)			
3.9	a valid TAN number for the fourth transaction. (note)			
3.10	an invalid TAN number.			

B.6.5 Timer values

Table B.4: Timer values

Item			Allowed values	Value
4.1	Timer that is used to wait for the test operator to perform an implicit send action or to wait for a PTC to react (TWAIT). Duration in s.	Integer		
4.2	Timer that is used to wait for the IUT to respond to a stimulus sent by the tester (TAC). Duration in s.	Integer		
4.3	Timer that is used to control that the IUT does not respond to a stimulus sent by the tester (TNOAC). Duration in s.		Integer	
4.4	Timer that is used to wait for a RESTART PDU(T_RESTART). Duration in s		Integer	
4.5	Timer that is used to control the procedures associated with T-IDLEGUARD. Timer value in second.		Integer	
NOTE:	NOTE: The IUT provider 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.7 Basic call PIXIT items

B.7.1 Parameter values - information element coding

Table B.5: Coding of information elements

Item	Information element:	Supported?	Value
	provide, if possible,	(Y/N)	
N1.1	a coding of a Bearer Capability information		
	element, which the IUT is compatible with, for		
	the purpose of accepting received SETUP		
	messages and which may be used in SETUP		
	messages to be transmitted		
N1.2	a coding of a High layer compatibility information		
	element, which the IUT is compatible with, for		
	the purpose of accepting received SETUP		
	messages and which may be used in SETUP		
114.0	messages to be transmitted		
N1.3	a coding of a Low layer compatibility information		
	element, which the IUT is compatible with, for		
	the purpose of accepting received SETUP		
	messages and which may be used in SETUP		
N1.4	messages to be transmitted a Called party number information element, which	the IIIT is some	stible with for
	served user access	the for is compa	aubie with, for
N1.4.1			
N1.4.2	first remote user access		
N1.4.3	second remote user access		
N1.4.4	third remote user access		
N1.5	preferred channel number to be used for the purp	ose of accepting r	received SETUP messages, for
	(note 1)		
N1.5.1	single call at served user side		
N1.5.2	second call at served user side		
N1.5.3	first call at remote user side		
N1.5.4	second call at remote user side		
N1.5.5	third call at remote user side		
NOTE 4. IA	oma N1 E 1 to N1 E E are applicable for primary rate		

NOTE 1: Items N1.5.1 to N1.5.5 are applicable for primary rate access only.

NOTE 2: As this is a general table used for all supplementary services, all items N1.4.1 to N1.4.4, and N1.5.1 to N1.5.5 (if primary rate access is supported), are not always required, but should be supplied if possible.

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 [4].

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 (sp1311761.PDF contained in archive en_30179906v010101c0.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 (sp1311761.MP contained in archive en_30179906v010101c0.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.

History

Document history					
V1.1.1	February 2001	Public Enquiry	PE 20010608: 2001-02-07 to 2001-06-08		