

**Integrated Services Digital Network (ISDN);
Calling Line Identification Presentation (CLIP)
supplementary service;
Digital Subscriber Signalling System No. one (DSS1) protocol;
Part 4: Abstract Test Suite (ATS) and partial Protocol
Implementation eXtra Information for Testing (PIXIT)
proforma specification for the user**



Reference

REN/SPAN-130273-4

Keywords

ATS, CLIP, DSS1, ISDN, PIXIT,
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Contents

Intellectual Property Rights	5
Foreword.....	5
1 Scope	6
2 References	6
3 Definitions and abbreviations.....	7
3.1 Definitions	7
3.2 Abbreviations	7
4 Abstract Test Method (ATM).....	8
5 Untestable test purposes	8
6 ATS conventions	8
6.1 Version of TTCN used	8
7 ATS to TP map.....	8
8 PCTR conformance	9
9 PIXIT conformance	9
10 ATS conformance	9
Annex A (normative): Protocol Conformance Test Report (PCTR) proforma.....	10
A.1 Identification summary.....	10
A.1.1 Protocol conformance test report.....	10
A.1.2 IUT identification	10
A.1.3 Testing environment.....	11
A.1.4 Limits and reservations	11
A.1.5 Comments.....	11
A.2 IUT conformance status	11
A.3 Static conformance summary	11
A.4 Dynamic conformance summary.....	12
A.5 Static conformance review report.....	12
A.6 Test campaign report	12
A.6.1 Test campaign report for normative tests	12
A.6.2 Test campaign report for informative tests.....	13
A.7 Observations.....	13
Annex B (normative): Partial PIXIT proforma	14
B.1 Identification summary.....	14
B.2 Abstract test suite summary	14
B.3 Test laboratory.....	14
B.4 Client (of the test laboratory)	15
B.5 System Under Test (SUT).....	15
B.6 Protocol information.....	16
B.6.1 Protocol identification	16
B.6.2 IUT information	16
B.6.2.1 Parameters.....	16

B.6.2.2	Parameter values	16
B.6.2.3	Sending of messages by IUT	16
B.7	Basic call PIXIT items	17
B.7.1	Parameter values - information element codings	17
B.7.2	Sending of message by IUT	17
Annex C (normative):	Abstract Test Suite (ATS)	18
C.1	The TTCN Graphical form (TTCN.GR)	18
C.1.1	ATS for basic access	18
C.1.2	ATS for primary rate access	18
C.2	The TTCN Machine Processable form (TTCN.MP)	18
C.2.1	ATS for basic access	18
C.2.2	ATS for primary rate access	18
Annex D (informative):	Additional ATS for the served user (S/T or T)	19
D.1	The TTCN Graphical form (TTCN.GR)	19
D.1.1	ATS for basic access	19
D.1.2	ATS for primary rate access	19
D.2	The TTCN Machine Processable form (TTCN.MP)	19
D.2.1	ATS for basic access	19
D.2.2	ATS for primary rate access	20
Annex E (informative):	Change record	21
E.1	Changes between EN 300 092- 4 and EN 300 092-4 v1.2	21
E.2	Changes between EN 300 092-4 v1.2 and EN 300 092-4 Edition 1	22
Annex F (informative):	Bibliography	23
History		24

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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 deliverable covering the Calling Line Identification Presentation (CLIP) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol specification for the Integrated Services Digital Network (ISDN), 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".

The present version updates the references to the basic call specifications.

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 Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma for the User side of the T reference point or coincident S and T reference point (as defined in ITU-T Recommendation I.411 [10]) of implementations conforming to the stage three standard for the Calling Line Identification Presentation (CLIP) supplementary service for the pan-European Integrated Services Digital Network (ISDN) by means of the Digital Subscriber Signalling System No. one (DSS1) protocol, EN 300 092-1 [2].

EN 300 092-3 [4] 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 Network side of the T reference point or coincident S and T reference point of implementations conforming to EN 300 092-1 [2].

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 and/or edition number or version number) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

- [1] ETSI EN 300 403-1: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 1: Protocol specification [ITU-T Recommendation Q.931 (1993), modified]".
- [2] ETSI EN 300 092-1: "Integrated Services Digital Network (ISDN); Calling Line Identification Presentation (CLIP) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [3] ETSI EN 300 092-2: "Integrated Services Digital Network (ISDN); Calling Line Identification Presentation (CLIP) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".
- [4] ETSI EN 300 092-3: "Integrated Services Digital Network (ISDN); Calling Line Identification Presentation (CLIP) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 3: Test Suite Structure and Test Purposes (TSS&TP) specification for the user".
- [5] ISO/IEC 9646-1: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [6] ISO/IEC 9646-2: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 2: Abstract Test Suite specification".
- [7] ISO/IEC 9646-3: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 3: The Tree and Tabular Combined Notation (TTCN)".
- [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] ITU-T Recommendation I.411 (1993): "ISDN user-network interfaces - Reference configurations".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the following terms and definitions apply:

Abstract Test Suite (ATS): See ISO/IEC 9646-1 [5].

Implementation Under Test (IUT): See ISO/IEC 9646-1 [5].

Lower Tester (LT): See ISO/IEC 9646-1 [5].

Point of Control and Observation (PCO): See ISO/IEC 9646-1 [5].

Protocol Implementation Conformance Statement (PICS): See ISO/IEC 9646-1 [5].

PICS proforma: See ISO/IEC 9646-1 [5].

Protocol Implementation Extra Information For Testing (PIXIT): See ISO/IEC 9646-1 [5].

PIXIT proforma: See ISO/IEC 9646-1 [5].

System Under Test (SUT): See ISO/IEC 9646-1 [5].

Upper Tester (UT): See ISO/IEC 9646-1 [5].

3.2 Abbreviations

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

ATM	Abstract Test Method
ATS	Abstract Test Suite
CLIP	Calling Line Identification Presentation
ExTS	Executable Test Suite
IUT	Implementation Under Test
LT	Lower Tester
MOT	Means Of Testing
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
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 remote test method is applied for the CLIP user ATS. The Point of Control and Observation (PCO) resides at the service access point between layers 2 and 3. This PCO is named "L" (for Lower). The L 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.

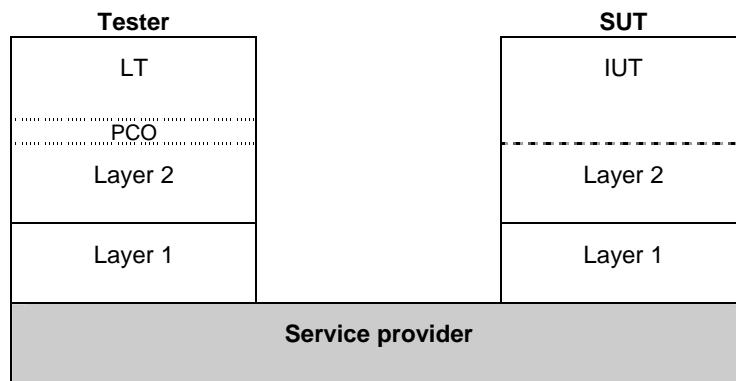


Figure 1: Remote test method

ISO/IEC 9646-2 [6] 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 conventions

6.1 Version of TTCN used

The version of TTCN used is that defined in ISO/IEC 9646-3 [7].

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 [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.

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 [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 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.

10 ATS conformance

The test realizer, producing MOT and ExTS for this ATS specification, shall comply with the requirements of ISO/IEC 9646-4 [8]. In particular, these concern the realization of an 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 300 092-1
PICS:	
Previous PCTRs (if any):	

A.1.3 Testing environment

PIXIT reference number:	
ATS specification:	EN 300 092-4
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/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 the present document) 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 the present document) strike the word "did", otherwise strike the words "did not".

Summary of the results of groups of tests:

.....

.....

.....

.....

A.5 Static conformance review report

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

.....

.....

.....

.....

.....

.....

A.6 Test campaign report

A.6.1 Test campaign report for normative tests

ATS reference	Selected? (Y/N)	Run? (Y/N)	Verdict	Observations
CLIP_U01_001				
CLIP_U01_002				

A.6.2 Test campaign report for informative tests

ATS reference	Selected? (Y/N)	Run? (Y/N)	Verdict	Observations
CLIP_U02_001				
CLIP_U02_002				
CLIP_U02_003				
CLIP_U02_004				
CLIP_U02_005				
CLIP_U02_006				
CLIP_U02_007				
CLIP_U02_008				
CLIP_U02_009				
CLIP_U02_010				
CLIP_U02_011				
CLIP_U02_012				
CLIP_U02_013				
CLIP_U02_014				
CLIP_U02_015				
CLIP_U02_016				
CLIP_U02_017				
CLIP_U02_018				

The verdicts contained in the table above are not to be considered in assessing conformance of the IUT to the CLIP supplementary service as specified in EN 300 092-1. These verdicts may be used to give an indication of an IUT's ability (at the called user side) to display information related to the calling party.

A.7 Observations

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

[illegible]

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 number:

.....

Test laboratory name:

.....

Date of issue:

.....

Issued to:

.....

B.2 Abstract test suite summary

Protocol specification: EN 300 092-1

ATS specification: EN 300 092-4

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:

.....

B.4 Client (of the test laboratory)

Client identification:

.....

Client test manager:

.....

Client contact:

.....

Test facilities required:

.....

B.5 System Under Test (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 300 092-1

Protocol version:

PICS reference:

NOTE: The PICS reference should reference a completed PICS which is conformant with the PICS proforma contained in EN 300 092-2.

B.6.2 IUT information

B.6.2.1 Parameters

Table B.1: Parameters

Item	Question	Supported? (Y/N)	Value
1.1	Does the IUT support CLIP for basic access point-to-multipoint?		N/A
1.2	Does the IUT support CLIP for basic access point-to-point?		N/A
1.3	Does the IUT support CLIP for primary rate access?		N/A

B.6.2.2 Parameter values

Table B.2: Parameter values

Item	Description	Supported? (Y/N)	Value
2.1	Length of Calling party number with included octet 3a		
2.2	Length of Calling party number with omitted octet 3a		
2.3	Length of Calling party subaddress		
2.4	Digits of Calling party number		
2.5	Digits of Calling party subaddress (IA5)		
2.6	Automatic or non-automatic terminal		
2.7	True, if a special arrangement applies		

B.6.2.3 Sending of messages by IUT

No items requiring response.

B.7 Basic call PIXIT items

B.7.1 Parameter values - information element codings

Table B.3: Codings of information elements

Item	Information element: provide, if possible, ...	Supported? (Y/N)	Value
BC1.1	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		
BC1.2	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 messages to be transmitted		
BC1.3	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 messages to be transmitted		
BC1.4	a Called party number information element, which the IUT is compatible with, for ...		
BC1.4.1	party number length value		
BC1.4.2	party number value		
BC1.5	channel number		

B.7.2 Sending of message by IUT

Table B.4: Actions required to stimulate IUT to send messages

Item	Action: What actions, if possible, have to be taken to cause the IUT to send a ...	Supported? (Y/N)	Stimulus (action taken)
BC2.1	SETUP message		

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 [7].

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 (see also annex E).

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

C.1.1 ATS for basic access

The TTCN.GR representation of this ATS is contained in a Portable Document Format file (CLIP_user_BAM1.PDF contained in archive en_30009204v010301o0.ZIP) which accompanies the present document.

This ATS shall be used where the IUT claims to support CLIP and basic access. It is specified for **point-to-multipoint** configuration. To re-configure for **point-to-point** operation it is necessary to make the following modification:

In the "Alias Definitions" table locate the expansion DL_UDAT_RQ and replace with DL_DAT_RQ.

C.1.2 ATS for primary rate access

The TTCN.GR representation of this ATS is contained in a Portable Document Format file (CLIP_user_PAM1.PDF contained in archive en_30009204v010301o0.ZIP) which accompanies the present document.

This ATS shall be used where the IUT claims to support CLIP and primary rate access.

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

C.2.1 ATS for basic access

The TTCN.MP representation corresponding to this ATS is contained in an ASCII file (CLIP_user_BAM1.MP contained in archive en_30009204v010301o0.ZIP) which accompanies the present document.

This ATS shall be used where the IUT claims to support CLIP and basic access. It is specified for **point-to-multipoint** configuration. To re-configure for **point-to-point** operation it is necessary to make the following modification:

Replace the pattern "\$ExpandedId DL_UDAT_RQ" with "\$ExpandedId DL_DAT_RQ".

C.2.2 ATS for primary rate access

The TTCN.MP representation corresponding to this ATS is contained in an ASCII file (CLIP_user_PAM1.MP contained in archive en_30009204v010301o0.ZIP) which accompanies the present document.

This ATS shall be used where the IUT claims to support CLIP and primary rate access.

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.

Annex D (informative): Additional ATS for the served user (S/T or T)

EN 300 092-1 [2] places no requirements on the called terminal on how it should treat a received Calling party number and Calling party subaddress information elements. While, for conformance, only the tests in annex C need to be performed, the test cases contained in the additional ATS may prove useful in ascertaining behaviour over and above the requirements of EN 300 092-1 [2].

This ATS has been produced using Tree and Tabular Combined Notation (TTCN) according to ISO/IEC 9646-3 [7].

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

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

D.1.1 ATS for basic access

The TTCN.GR representation of this ATS is contained in an Adobe Portable Document Format™ file (CLIP_user_BAV1.PDF contained in archive en_30009204v010301o0.ZIP which accompanies the present document.

This ATS is intended for an IUT claiming to support CLIP and basic access. It is specified for **point-to-multipoint** configuration. To re-configure for **point-to-point** operation it is necessary to make the following modification:

In the "Alias Definitions" table locate the expansion DL_UDAT_RQ and replace with DL_DAT_RQ.

D.1.2 ATS for primary rate access

The TTCN.GR representation of this ATS is contained in a Portable Document Format file (CLIP_user_PAV1.PDF contained in archive en_30009204v010301o0.ZIP) which accompanies the present document.

This ATS is intended for an IUT claiming to support CLIP and primary rate access.

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

D.2.1 ATS for basic access

The TTCN.MP representation corresponding to this ATS is contained in an ASCII file (CLIP_user_BAV1.MP contained in archive en_30009204v010301o0.ZIP) which accompanies the present document.

This ATS is intended for an IUT claiming to support CLIP and basic access. It is specified for **point-to-multipoint** configuration. To re-configure for **point-to-point** operation it is necessary to make the following modification:

Replace the pattern "\$ExpandedId DL_UDAT_RQ" with "\$ExpandedId DL_DAT_RQ".

D.2.2 ATS for primary rate access

The TTCN.MP representation corresponding to this ATS is contained in an ASCII file (CLIP_user_PAV1.MP contained in archive en_30009204v010301o0.ZIP) which accompanies the present document.

This ATS is intended for an IUT claiming to support CLIP and primary rate access.

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.

Annex E (informative): Change record

E.1 Changes between EN 300 092- 4 and EN 300 092-4 v1.2

The following comments received in document 4DT174 (for the Plenary Meeting 11-2000) were analysed and included when needed. In addition, revisions including the update of the PIXIT tables and the removal of superfluous and out of date material from clause 6 and old annex E were done.

- In CLIP_user_BAM1.MP

- The type CAU has been modified. The type of the field cau_di OCTETSTRING[1 TO 28] has been replaced to OCTETSTRING[0 TO 28], because the diagnostic is optional. The type of the field cau_e3a BITSTRING [8] has also been replace by OCTETSTRING[0 TO 8], because this is an optional field.
- The test suite parameter PIC_PRESENT_COMPLETE_CGPN has been added to indicate if the IUT supports the presentation of the complete calling party number in the calling party number information element.
- The test suite parameter PIC_PRESENT_PARTIAL_CGPN has been added to indicate if the IUT supports the presentation of the partial calling party number in the calling party number information element
- The test case selection expressions SEL_SETUP_COMP_CGPN has been created, the expression is BXSET AND PIC_PRESENT_COMPLETE_CGPN. This is TRUE, if the sending of a SETUP message with a complete calling party number can be provoked.
- The test case selection expressions SEL_SETUP_PARTIAL_CGPN has been created, the expression is BXSET AND PIC_PRESENT_PARTIAL_CGPN. This is TRUE, if the sending of a SETUP message with a partial party number can be provoked.
- In the constraint CAU2, the field cau_e3_eb and cau_e3_cs are missing. They have been added with the respective values '1'B and '000'B. Then the field cau_e3_loc is of type BITSTRING [4], so the value '10000010'B is too long, it has been replaced to '0010'B. The field cau_e3a has been added with the value - (OMIT).
- In the constraint CAU4, the field cau_e3_eb and cau_e3_cs are missing. They have been added with the value. The field cau_e3a has also been added with the value "*".
- The test cases CLIP_U01_001 is selected with the test case selection expression SEL_SETUP_COMP_CGPN, because it is testing the sending of a complete CGPN in the SETUP PDU.
- The test cases CLIP_U01_002 is selected with the test case selection expression SEL_SETUP_PARTIAL_CGPN, because it is testing the sending of a partial CGPN in the SETUP PDU.

- In CLIP_user_BAV1.MP
 - The type CAU has been modified. The type of the field cau_di OCTETSTRING[1 TO 28] has been replaced to OCTETSTRING[0 TO 28], because the diagnostic is optional. The type of the field cau_e3a BITSTRING [8] has also been replaced by OCTETSTRING[0 TO 8], because this is an optional field.
 - In the constraint CAU2, the field cau_e3_eb and cau_e3_cs are missing. They have been added with the respective values '1'B and '000'B. Then the field cau_e3_loc is of type BITSTRING [4], so the value '10000010'B is too long, it has been replaced to '0010'B. The field cau_e3a has been added with the value - (OMIT).
 - In the constraint CAU4, the field cau_e3_eb and cau_e3_cs are missing. They have been added with the value. The field cau_e3a has also been added with the value "*".

E.2 Changes between EN 300 092-4 v1.2 and EN 300 092-4 Edition 1

The following changes have been done:

- conversion to EN layout;
- replacement of references to ETS 300 102 with EN 300 403-1 [1];
- substitution of non-specific references to basic standards where the intention is to refer to the latest version.

Annex F (informative): Bibliography

- ETSI ETS 300 102 (all parts): "Integrated Services Digital Network (ISDN); User-network interface layer 3".

History

Document history		
Edition 1	May 1997	Publication as ETS 300 0292-4
V1.2.4	June 1998	Publication
V1.3.1	December 2001	One-step Approval Procedure OAP 20020419: 2001-12-19 to 2002-04-19