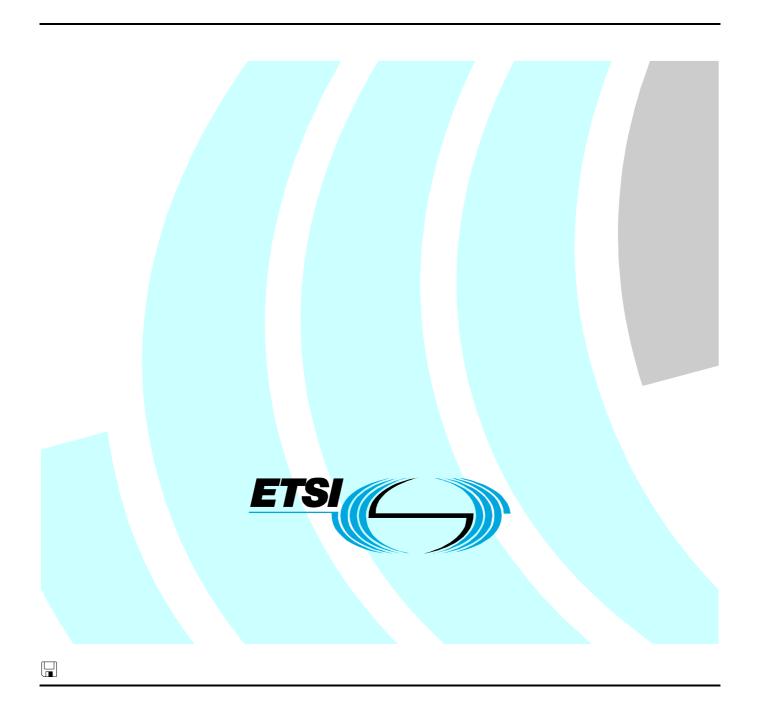
ETSI EN 301 065-4 V1.2.1 (2002-04)

European Standard (Telecommunications series)

Integrated Services Digital Network (ISDN);
Digital Subscriber Signalling System No. one (DSS1) protocol;
Completion of Calls on No Reply (CCNR)
supplementary service;
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

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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. one (DSS1) protocol specification for the Integrated Services Digital Network (ISDN) Completion of Calls on No Reply (CCNR) supplementary service, as identified 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".

National transposition dates		
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Date of latest announcement of this EN (doa):	31 July 2002	
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 January 2003	
Date of withdrawal of any conflicting National Standard (dow):	31 January 2003	

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 of implementations conforming to the stage three standard for the Completion of Calls on No Reply (CCNR) supplementary service for the pan-European Integrated Services Digital Network (ISDN) by means of the Digital Subscriber Signalling System No. one (DSS1) protocol, EN 301 065-1 [1].

EN 301 065-3 [3] 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 301 065-1 [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 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 301 065-1 (V1.2.2): "Integrated Services Digital Network (ISDN); Completion of Calls on No Reply (CCNR) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [2] ETSI EN 301 065-2 (V1.2.2): "Integrated Services Digital Network (ISDN); Completion of Calls on No Reply (CCNR) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".
- [3] ETSI EN 301 065-3 (V1.1.3): "Integrated Services Digital Network (ISDN); Completion of Calls on No Reply (CCNR) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 3: Test Suite Structure and Test Purposes (TSS&TP) specification for the user".
- [4] ETSI EN 300 196-1 (V1.2.2): "Integrated Services Digital Network (ISDN); Generic functional protocol for the support of supplementary services; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [5] ISO/IEC 9646 (all parts): "Information technology Open Systems Interconnection Conformance testing methodology and framework".
- [6] 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)".
- [7] ISO/IEC 8825-1 (1995): "Information technology ASN.1 encoding rules: Specification of Basic Encoding Rules (BER), Canonical Encoding Rules (CER) and Distinguished Encoding Rules (DER)".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in ISO/IEC 9646 [5] apply.

3.2 Abbreviations

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

ATM Abstract Test Method ATS Abstract Test Suite BCAP Bearer CAPability BER Basic Encoding Rules

CCNR Completion of Calls on No Reply
DSS1 Digital Subscriber Signalling No1

ETS Executable Test Suite
HLC High Layer Compatibility

ISDN Integrated Services Digital Network

IUT Implementation Under Test LLC Low Layer Compatibility

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

PTC Parallel Test Component

ROSE Remote Operation Service Element

SUT System Under Test TP Test Purpose

TSS&TP Test Suite Structure and Test Purpose TTCN Tree and Tabular Combined Notation

4 Abstract Test Method (ATM)

The remote test method is applied for the CCNR user ATSs.

A Point of Control and Observation (PCO) resides at the service access point between layers 2 and 3 in the test system. 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.

A second "informal" PCO, called "O" (for Operator) is used to specify control but not observation above the IUT; events at this PCO are never used to generate test case verdicts. Messages sent by the tester at this PCO explicitly indicate to the operator actions which are to be performed on the SUT. This is regarded as a preferred alternative to the use of the implicit send event.

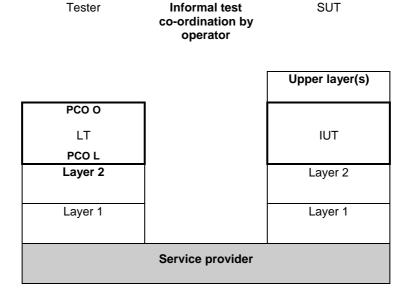


Figure 1: Remote test method with PCO O for test co-ordination

5 Untestable test purposes

There are no untestable test cases associated with this ATS.

6 ATS conventions

6.1 Version of TTCN used

The version of TTCN used is that defined in TR 101 101 [6].

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 [5] and in TR 101 101 [6] 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 ISO/IEC 9646-3 [5] 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 [7]. 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 first line of the table header comment field, the notation "ASN1_Encoding: BER" is used.

Note that within BER, there are a number of variations for the encoding of lengths of fields. According to EN 300 196-1 [4], an IUT should be able to interpret all length forms within BER for received PDUs. When sending PDUs containing BER encoding, EN 300 196-1 [4] gives guidelines but makes no restrictions on the length forms within BER which an IUT may apply.

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

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

```
ASN.1 Type Constraint Declaration
Constraint Name
                  Beg3PTYinv
ASN.1 Type
                  Component
Derivation Path
                  ASN1_Encoding: BER
Comments
                                      Begin3PTY invoke component
                  Receive component:
                                             Description
begin3PTY_Components
 begin3PTY_InvokeComp
      invokeID
                _value
                          localValue
      operation
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 [5], to produce a PCTR conformant with the PCTR template given in annex B of ISO/IEC 9646-5 [5].

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 [5], 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 [5], 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 [5]. 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 [5].

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 301 065-1
PICS:	
Previous PCTRs (if any):	

A.1.3 Testing environment

PIXIT Reference number:	
ATS Specification:	EN 301 065-1
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 word "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.

The test campaign did not reveal errors in the 101.
Strike the appropriate words in this sentence. If there are no "FAIL" verdicts to be recorded (in clause A.6 of this report) strike the 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

ATS reference	Selected? (Y/N)	Run? (Y/N)	Verdict	Observations
CCNR_U01_001				
CCNR_U01_002				
CCNR_U01_003				
CCNR_U01_004				
CCNR_U01_005				
CCNR_U01_006				
CCNR_U01_007				
CCNR_U01_008				
CCNR_U01_009				
CCNR_U01_010				
CCNR_U01_011				
CCNR_U01_012				
CCNR_U02_001				
CCNR_U02_002				
CCNR_U02_003				
CCNR_U02_004				
CCNR_U03_001				
CCNR_U03_002		·		·
CCNR_U03_003				
CCNR_U03_004				
CCNR_U03_005				

CCNR. 104-002 CCNR. 104-003 CCNR. 104-004 CCNR. 104-004 CCNR. 104-006 CCNR. 104-006 CCNR. 104-006 CCNR. 105-001 CCNR. 105-001 CCNR. 105-001 CCNR. 105-003 CCNR. 105-003 CCNR. 105-003 CCNR. 105-004 CCNR. 105-005 CCNR. 105-004 CCNR. 105-005 CCNR. 106-001 CCNR. 106-001 CCNR. 106-001 CCNR. 106-002 CCNR. 106-001 CCNR. 106-004 CCNR. 106-005 CCNR. 106-004 CCNR. 106-005 CCNR. 106-006 CCNR. 106-006 CCNR. 109-001 CCNR. 109-001 CCNR. 109-001 CCNR. 109-002 CCNR. 109-003 CCNR. 109-003 CCNR. 110-001 CCNR. 110-002 CCNR. 111-001 CCNR. 111-004 CCNR. 111-004 CCNR. 111-004 CCNR. 111-005 CCNR. 111-006 CCNR. 111-006 CCNR. 111-006 CCNR. 111-007 CCNR. 111-006 CCNR. 111-007 CCNR. 111-006 CCNR. 111-007 CCNR. 111-007 CCNR. 111-007 CCNR. 111-007 CCNR. 111-008 CCNR. 111-009 CCNR. 111-009 CCNR. 111-009 CCNR. 111-009 CCNR. 111-001 CCNR. 111-006 CCNR. 111-007 CC	ATS reference	Selected? (Y/N)	Run? (Y/N)	Verdict	Observations
CCNR U04 003 CCNR U04 004 CCNR U04 006 CCNR U05 001 CCNR U05 001 CCNR U05 001 CCNR U05 002 CCNR U05 003 CCNR U05 005 CCNR U05 005 CCNR U06 005 CCNR U06 006 CCNR U06 007 CCNR U06 007 CCNR U06 007 CCNR U06 008 CCNR U06 001 CCNR U06 003 CCNR U06 004 CCNR U06 005 CCNR U06 006 CCNR U06 007 CCNR U06 007 CCNR U06 007 CCNR U06 008 CCNR U06 009 CCNR U07 001 CCNR U08 001 CCNR U08 001 CCNR U09 002 CCNR U09 002 CCNR U10 001 CCNR U10 002 CCNR U10 002 CCNR U10 002 CCNR U11 003 CCNR U11 003 CCNR U11 008 CCNR U11 009 CCNR U11 010 CCNR U12 009 CCNR U12 001	CCNR_U04_001				
CCNR U04 005 CCNR U04 005 CCNR U04 006 CCNR U05 001 CCNR U05 002 CCNR U05 002 CCNR U05 003 CCNR U05 004 CCNR U05 005 CCNR U05 006 CCNR U05 006 CCNR U06 001 CCNR U06 001 CCNR U06 001 CCNR U06 002 CCNR U06 003 CCNR U06 003 CCNR U06 005 CCNR U06 006 CCNR U07 001 CCNR U09 001 CCNR U09 001 CCNR U09 002 CCNR U09 002 CCNR U09 003 CCNR U10 001 CCNR U11 001 CCNR U11 002 CCNR U11 001 CCNR U11 002 CCNR U11 005 CCNR U11 006 CCNR U11 007 CCNR U11 006 CCNR U11 007 CCNR U11 007 CCNR U11 008 CCNR U11 009 CCNR U11 009 CCNR U11 001 CCNR U11 005 CCNR U11 006 CCNR U11 007 CCNR U11 007 CCNR U11 008 CCNR U11 009 CCNR U11 009 CCNR U11 001 CCNR U11 006 CCNR U11 007 CCNR U11 007 CCNR U11 008 CCNR U11 009 CCNR U11 009 CCNR U11 010 CCNR U12 000 CCNR U12 001 CCNR U12 001 CCNR U12 001 CCNR U12 001	CCNR_U04_002				
CCNR 104 005 CCNR 105 001 CCNR 105 001 CCNR 105 003 CCNR 105 003 CCNR 105 005 CCNR 105 005 CCNR 105 005 CCNR 106 002 CCNR 106 002 CCNR 106 002 CCNR 106 002 CCNR 106 003 CCNR 106 004 CCNR 106 005 CCNR 107 001 CCNR 109 002 CCNR 100 005 CCNR	CCNR_U04_003				
CCNR U04 006 CCNR U05 001 CCNR U05 002 CCNR U05 003 CCNR U05 004 CCNR U05 004 CCNR U05 005 CCNR U05 006 CCNR U06 001 CCNR U06 001 CCNR U06 002 CCNR U06 003 CCNR U06 004 CCNR U06 006 CCNR U07 001 CCNR U08 001 CCNR U09 001 CCNR U10 001 CCNR U11 001 CCNR U11 002 CCNR U11 003 CCNR U11 004 CCNR U11 005 CCNR U11 006 CCNR U11 006 CCNR U11 007 CCNR U11 008 CCNR U11 009 CCNR U11 010 CCNR U12 000 CCNR U12 001 CCNR U12 001 CCNR U12 001 CCNR U12 001	CCNR_U04_004				
CCNR U05 001 CCNR U05 002 CCNR U05 003 CCNR U05 004 CCNR U05 005 CCNR U06 001 CCNR U06 002 CCNR U06 003 CCNR U06 004 CCNR U06 005 CCNR U06 006 CCNR U06 007 CCNR U06 007 CCNR U06 007 CCNR U06 008 CCNR U06 009 CCNR U07 001 CCNR U08 006 CCNR U08 007 CCNR U09 001 CCNR U09 001 CCNR U09 001 CCNR U09 002 CCNR U10 001 CCNR U10 002 CCNR U10 002 CCNR U11 001 CCNR U11 001 CCNR U11 005 CCNR U11 005 CCNR U11 006 CCNR U11 007 CCNR U11 008 CCNR U11 009 CCNR U11 009 CCNR U11 010 CCNR U11 009 CCNR U11 010 CCNR U11 009 CCNR U11 010 CCNR U12 001 CCNR U12 006 CCNR U12 006 CCNR U12 007 CCNR U12 009 CCNR U12 009 CCNR U12 009 CCNR U12 001	CCNR_U04_005				
CCNR U05 002 CCNR U05 004 CCNR U05 004 CCNR U06 001 CCNR U06 001 CCNR U06 001 CCNR U06 002 CCNR U06 003 CCNR U06 003 CCNR U06 004 CCNR U06 005 CCNR U06 005 CCNR U06 006 CCNR U06 006 CCNR U06 006 CCNR U07 001 CCNR U09 002 CCNR U09 003 CCNR U10 001 CCNR U10 002 CCNR U10 001 CCNR U10 002 CCNR U11 004 CCNR U11 005 CCNR U11 006 CCNR U11 007 CCNR U11 008 CCNR U11 009 CCNR U11 010 CCNR U12 000 CCNR U12 010 CCNR U12 010	CCNR_U04_006				
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CCNR_U11_018 CCNR_U12_001 CCNR_U12_002 CCNR_U12_003 CCNR_U12_004 CCNR_U12_005 CCNR_U12_006 CCNR_U12_007 CCNR_U12_008 CCNR_U12_008 CCNR_U12_009 CCNR_U12_010 CCNR_U12_011 CCNR_U12_012					
CCNR_U12_001 CCNR_U12_002 CCNR_U12_003 CCNR_U12_004 CCNR_U12_005 CCNR_U12_006 CCNR_U12_007 CCNR_U12_008 CCNR_U12_008 CCNR_U12_009 CCNR_U12_010 CCNR_U12_011 CCNR_U12_012					
CCNR_U12_001 CCNR_U12_002 CCNR_U12_003 CCNR_U12_004 CCNR_U12_005 CCNR_U12_006 CCNR_U12_007 CCNR_U12_008 CCNR_U12_009 CCNR_U12_010 CCNR_U12_011 CCNR_U12_012					
CCNR_U12_002 CCNR_U12_003 CCNR_U12_004 CCNR_U12_005 CCNR_U12_006 CCNR_U12_007 CCNR_U12_008 CCNR_U12_009 CCNR_U12_010 CCNR_U12_011 CCNR_U12_012					
CCNR_U12_003 CCNR_U12_004 CCNR_U12_005 CCNR_U12_006 CCNR_U12_007 CCNR_U12_008 CCNR_U12_009 CCNR_U12_010 CCNR_U12_010 CCNR_U12_011 CCNR_U12_012					
CCNR_U12_004 CCNR_U12_005 CCNR_U12_006 CCNR_U12_007 CCNR_U12_008 CCNR_U12_009 CCNR_U12_010 CCNR_U12_011 CCNR_U12_012					
CCNR_U12_005 CCNR_U12_006 CCNR_U12_007 CCNR_U12_008 CCNR_U12_009 CCNR_U12_010 CCNR_U12_011 CCNR_U12_012					
CCNR_U12_006 CCNR_U12_007 CCNR_U12_008 CCNR_U12_009 CCNR_U12_010 CCNR_U12_011 CCNR_U12_012					
CCNR_U12_007 CCNR_U12_008 CCNR_U12_009 CCNR_U12_010 CCNR_U12_011 CCNR_U12_012				-	
CCNR_U12_008 CCNR_U12_009 CCNR_U12_010 CCNR_U12_011 CCNR_U12_012					
CCNR_U12_009 CCNR_U12_010 CCNR_U12_011 CCNR_U12_012					
CCNR_U12_010 CCNR_U12_011 CCNR_U12_012					
CCNR_U12_011 CCNR_U12_012					
CCNR_U12_012					
CCNR_U12_013					
	CCNR_U12_013				

A.7	Observations				
Additiona	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 spec	cification:	EN 301 065-1
ATS specific	ration:	EN 301 065-4
Abstract test	method:	Multi-party test method (see ISO/IEC 9646-2)
B.3 Test laborate	Test laborato	ry
Accreditation	n status of the test service:	
Accreditation	n reference:	
Test laborate	ry manager:	
Test laborate	ory 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)		
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 301 065-1

Protocol version:

PICS reference:

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

contained in EN 301 065-2.

B.6.2 IUT information

B.6.2.1 Parameter values

Table B.1: Parameter values

Item	Question	Supported? (Y/N)	Allowed values	Value
1.1	Does the IUT support basic access?		N/A	N/A
1.2	What length of Call Reference is used?		1, 2	
1.3	What user B address is used?		Address (EN 300 196-1)	
1.4	Consist of a concatenation of the BCAP, HLC and LLC information element: N1.1, N1.2 N1.3, to be included in some ROSE components.		OCTETSTRING	

B.6.2.2 Configuration of IUT

Table B.2: Actions required to configure the IUT

Item	Action: What actions, if possible, have to be taken to configure the IUT	Supported? (Y/N)	Stimulus (action taken)
2.1	to be configured in point-to-multipoint?		
2.2	to be configured so that the IUT has a busy destination at the second call attempt?		

B.6.2.3 Timer values

Table B.3: Timer values

Item	Timer duration	Supported? (Y/N)	Allowed values	Value
3.1	Wait for the test operator to perform an implicit send action or to wait for a PTC to react (TWAIT). Duration in s.			
3.2	Wait for the IUT to respond to a stimulus sent by the tester (TAC). Duration in s.		integer	
3.3	Control that the IUT does not respond to a stimulus sent by the tester (TNOAC). Duration in s.		integer	
NOTE:	he IUT provider may fill in a value range rather than a fixed value for the test management timers. During est execution the test laboratory will choose specific values for the timers dependant on the means of esting used. These specific values may be beyond the range given by the IUT provider, if this is ecessary for achieving satisfactory test results.			

B.7 Basic call PIXIT items

B.7.1 Parameter values - information element codings

Table B.4: Codings 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				
	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				
	messages to be transmitted				
N1.4	a Called party number information element, which	h the IUT is compatible with, for			
N1.4.1	served user access				
N1.4.2	first remote user access				
N1.5	preferred channel number to be used for the purpose of accepting received SETUP messages, for				
	(note 1)				
N1.5.1	single call at served user side				
N1.5.2	second call at served user side				
NOTE 1: I	tems N1.5.1 to N1.5.2 are applicable for primary rate	access only.			
	As this is a general table used for all supplementary s				
1	N1.5.2 (if primary rate access is supported), are not a	lways required, b	ut 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 [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 (CCNR_U02.PDF contained in archive en_30106504v010201p0.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 (CCNR_U02.MP contained in archive en_30106504v010201p0.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.

Annex D (informative): Changes with respect to the previous EN 301 065-4 V1.1.3

The following modifications have been done:

- Update PDU constraints where fields were missing. (e.g. noid in CONNECT message constraints);
- Upon receipt of a SETUP PDU, the assignment of test case variables shall be done using ASP type DL_DAT_IN_SETUP and not the PDU type SETUP_PDU;
- Creation of DL_DAT_IN_FACr, DL_DAT_IN_REGr ASP types, FACr, REGr alias, A_FCr, A_REGr ASP contraints, in order to correct the assignment of test case variable with a received PDU field.

Annex E (informative): Bibliography

- ETSI EN 300 403-1 (V1.2.2): "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]".
- ETSI EN 300 403-3 (V1.2.2): "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 3: Protocol Implementation Conformance Statement (PICS) proforma specification".
- ETSI EN 300 141-2 (V1.2.4): "Integrated Services Digital Network (ISDN); Call Hold (HOLD) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".

History

Document history				
V1.1.3	May 2000	Publication		
V1.2.1	December 2001	One-step Approval Procedure OAP 20020419: 2001-12-19 to 2002-04-19		
V1.2.1	April 2002	Publication		