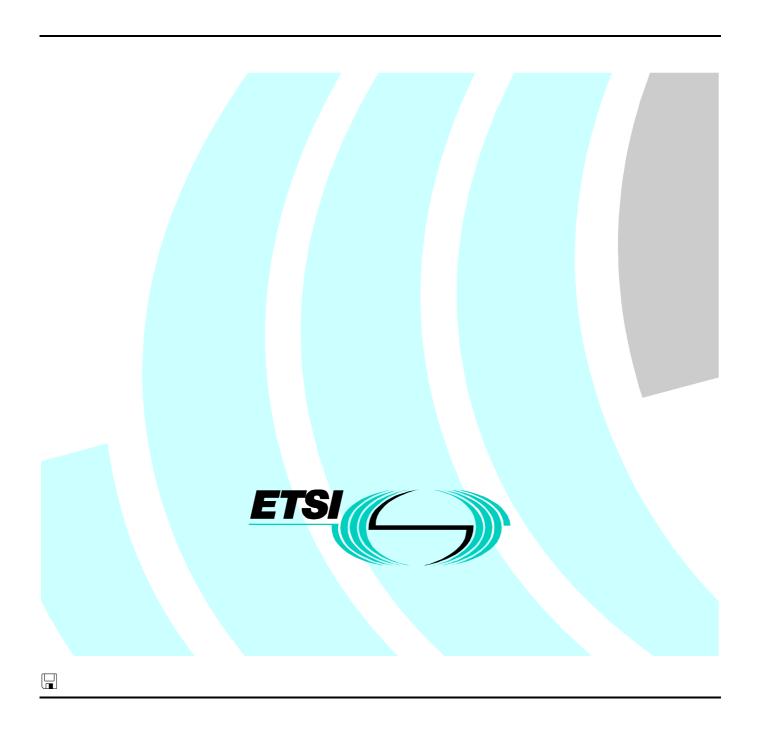
Final draft ETSI EN 301 001-6 V1.1.3 (1999-09)

European Standard (Telecommunications series)

Integrated Services Digital Network (ISDN);
Outgoing Call Barring (OCB) supplementary services;
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/SPS-05107-6 (99pi0ie0.PDF)

Keywords

ATS, call barring, DSS1, ISDN, network, PIXIT, supplementary service

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Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Signalling Protocol and Switching (SPS), and is now submitted for the Voting phase of the ETSI standards Two-step Approval Procedure.

The present document is part 6 of a multi-part standard covering the Integrated Services Digital Network (ISDN); Outgoing Call Barring (OCB) supplementary services; Digital Subscriber Signalling System No. one (DSS1) protocol, 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".

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 Network side of the T reference point or coincident S and T reference point of implementations conforming to the stage three standard for the Outgoing Call Barring (OCB) supplementary service for the pan-European Integrated Services Digital Network (ISDN) by means of the Digital Subscriber Signalling System No. one (DSS1) protocol, EN 301 001-1 [1].

EN 301 001-5 [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 301 001-1 [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.
- 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] EN 301 001-1 (V1.2): "Integrated Services Digital Network (ISDN); Outgoing Call Barring (OCB) supplementary services; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [2] EN 301 001-2 (V1.2): "Integrated Services Digital Network (ISDN); Outgoing Call Barring (OCB) supplementary services; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".
- [3] EN 301 001-5 (V1.1): "Integrated Services Digital Network (ISDN); Outgoing Call Barring (OCB) supplementary services; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 5: Test Suite Structure and Test Purposes (TSS&TP) specification for the network".
- [4] EN 300 196-1: "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: "Information technology Open Systems Interconnection Conformance Testing Methodology and Framework" (all parts).
- [6] TR 101 101 (V1.1): "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: "Information technology ASN.1 encoding rules: Specification of Basic Encoding Rules (BER), Canonical Encoding Rules (CER) and Distinguished Encoding Rules (DER)" (see also ITU-T Recommendation X.690: 1994).

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:

ATS Abstract Test Suite
BER Basic Encoding Rules
ETS Executable Test Suite
IUT Implementation Under Test

LT Lower Tester
MOT Means Of Testing
OCB Outgoing Call Barring

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 TP Test Purpose

TTCN Tree and Tabular Combined Notation

4 Abstract Test Method

The remote test method is applied for the OCB network ATS.

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.

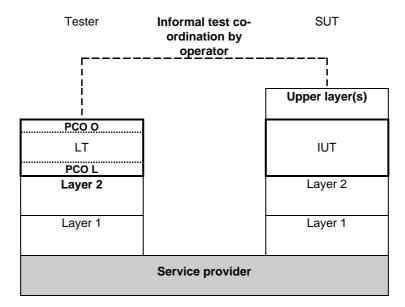


Figure 1: Remote test method with PCO O for test co-ordination

5 Untestable test purposes

There are no untestable test purposes 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 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 [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/AM2 [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: 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
                   DeactInv2
                               SERVED_NR : ServedUserNr )
ASN.1 Type
                  Component
Derivation Path
                  ASN1 Encoding: BER
Comments
                  OCB Deactivate Invoke component
                                            Description
deactivateOcb_Components
 deactivateOcb InvokeComp
      invokeID
      operation_value
                          globalValue deactivateOcb,
         argument
                  basicservice
                                        allServices
                  pin
                                        PX Pin
                   servedUserNr
                                        SERVED NR.
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 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 [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 ExTS for this ATS specification, shall comply with the requirements of ISO/IEC 9646-4 [5], 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 [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:	
	EN 301 001-1
PICS:	
Previous PCTRs (if any):	

A.1.3 Testing environment

PIXIT reference number:	
ATS specification:	EN 301 001-6
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 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

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

A.6 Test campaign report

GCB N01 001 CCB N01 002 CCB N01 003 CCB N01 003 CCB N01 006 CCB N01 006 CCB N01 006 CCB N01 007 CCB N01 007 CCB N01 008 CCB N01 009 CCB N01 009 CCB N01 011 CCB N01 011 CCB N01 011 CCB N01 013 CCB N01 011 CCB N01 013 CCB N01 014 CCB N01 015 CCB N01 016 CCB N01 016 CCB N01 016 CCB N01 017 CCB N01 018 CCB N01 018 CCB N01 019 CCB N01 019 CCB N01 019 CCB N01 019 CCB N01 010 CCB N02 001 CCB N02 004 CCB N02 005 CCB N02 006 CCB N02 007 CCB N02 007 CCB N02 008 CCB N02 009 CCB N02 001 CCB N02 001 CCB N02 001 CCB N02 006 CCB N02 007 CCB N02 007 CCB N02 008 CCB N02 009 CCB N02 001 CCB N02 009 CCB N02 001 CCB N03 001 CCB N04 002 CCB N04 003 CCB N04 006 CCB N04 009 CCB N	ATS reference	Selected? (Y/N)	Run? (Y/N)	Verdict	Observations
GCB N01_004 GCB N01_005 GCB N01_006 GCB N01_006 GCB N01_007 GCB N01_007 GCB N01_009 GCB N01_009 GCB N01_009 GCB N01_010 GCB N01_011 GCB N01_011 GCB N01_013 GCB N01_014 GCB N01_015 GCB N01_016 GCB N01_017 GCB N01_017 GCB N01_018 GCB N01_019 GCB N01_019 GCB N01_019 GCB N01_019 GCB N01_009 GCB N01_009 GCB N02_000 GCB N03_000 GCB N04_000	OCB_N01_001	, ,			
OCB NOT 004 OCB NOT 005 OCB NOT 006 OCB NOT 006 OCB NOT 008 OCB NOT 008 OCB NOT 008 OCB NOT 008 OCB NOT 009 OCB NOT 010 OCB NOT 011 OCB NOT 012 OCB NOT 012 OCB NOT 014 OCB NOT 015 OCB NOT 015 OCB NOT 016 OCB NOT 016 OCB NOT 017 OCB NOT 017 OCB NOT 018 OCB NOT 018 OCB NOT 019 OCB NOT 019 OCB NOT 019 OCB NOT 010 OCB N					
OCB N01 006 OCB N01 006 OCB N01 006 OCB N01 007 OCB N01 009 OCB N01 009 OCB N01 009 OCB N01 001 OCB N01 001 OCB N01 011 OCB N01 011 OCB N01 013 OCB N01 013 OCB N01 014 OCB N01 016 OCB N01 016 OCB N01 017 OCB N01 018 OCB N01 019 OCB N02 001 OCB N02 001 OCB N02 002 OCB N02 001 OCB N03 001 OCB N04 002 OCB N04 004 OCB N04 005 OCB N04 006 OCB N04 009 OCB N04 000	OCB_N01_003				
OCB N01 006 OCB N01 007 OCB N01 007 OCB N01 008 OCB N01 009 OCB N01 001 OCB N01 010 OCB N01 011 OCB N01 012 OCB N01 013 OCB N01 014 OCB N01 015 OCB N01 016 OCB N01 017 OCB N01 018 OCB N01 018 OCB N01 019 OCB N02 001 OCB N03 001 OCB N04 001	OCB_N01_004				
OCB N01 006 OCB N01 007 OCB N01 007 OCB N01 008 OCB N01 009 OCB N01 001 OCB N01 010 OCB N01 011 OCB N01 012 OCB N01 013 OCB N01 014 OCB N01 015 OCB N01 016 OCB N01 017 OCB N01 018 OCB N01 018 OCB N01 019 OCB N02 001 OCB N03 001 OCB N04 001	OCB_N01_005				
OCB N01 007					
GCB, N01, 008 CCB, N01, 010 CCB, N01, 010 CCB, N01, 011 CCB, N01, 014 CCB, N01, 015 CCB, N01, 016 CCB, N01, 017 CCB, N01, 018 CCB, N01, 018 CCB, N01, 019 CCB, N02, 001 CCB, N02, 001 CCB, N02, 001 CCB, N02, 003 CCB, N02, 003 CCB, N02, 004 CCB, N02, 005 CCB, N02, 006 CCB, N02, 006 CCB, N02, 007 CCB, N02, 008 CCB, N02, 009 CCB, N02, 009 CCB, N02, 009 CCB, N02, 008 CCB, N02, 009 CCB, N02, 001 CCB, N03, 009 CCB, N04, 000 CCB, N04, 005 CCB, N04, 006 CCB, N04, 006 CCB, N04, 009					
CCB, N01, 009 CCB, N01, 010 CCB, N01, 011 CCB, N01, 013 CCB, N01, 013 CCB, N01, 014 CCB, N01, 015 CCB, N01, 016 CCB, N01, 018 CCB, N01, 018 CCB, N01, 018 CCB, N01, 019 CCB, N02, 001 CCB, N02, 001 CCB, N02, 001 CCB, N02, 002 CCB, N02, 004 CCB, N02, 005 CCB, N02, 005 CCB, N02, 006 CCB, N02, 006 CCB, N02, 007 CCB, N02, 006 CCB, N02, 007 CCB, N02, 008 CCB, N02, 009 CCB, N02, 001 CCB, N02, 008 CCB, N02, 009 CCB, N02, 009 CCB, N02, 010 CCB, N03, 001 CCB, N03, 006 CCB, N03, 009 CCB, N03, 001 CCB, N03, 009 CCB, N03, 009 CCB, N03, 009 CCB, N03, 009 CCB, N03, 001 CCB, N03, 009 CCB, N03, 009 CCB, N03, 001 CCB, N04, 005 CCB, N04, 005 CCB, N04, 009 CCB, N04, 009					
GCB_N01_010 CCB_N01_011 CCB_N01_013 CCB_N01_014 CCB_N01_015 CCB_N01_016 CCB_N01_016 CCB_N01_017 CCB_N01_019 CCB_N01_019 CCB_N01_020 CCB_N01_020 CCB_N02_001 CCB_N02_002 CCB_N02_003 CCB_N02_004 CCB_N02_005 CCB_N02_006 CCB_N02_006 CCB_N02_007 CCB_N02_007 CCB_N02_007 CCB_N02_009 CCB_N02_009 CCB_N02_010 CCB_N02_010 CCB_N02_010 CCB_N02_010 CCB_N02_009 CCB_N02_010 CCB_N03_001 CCB_N03_001 CCB_N03_001 CCB_N03_001 CCB_N03_005 CCB_N03_006 CCB_N03_006 CCB_N03_006 CCB_N03_006 CCB_N03_006 CCB_N03_006 CCB_N03_006 CCB_N03_007 CCB_N03_006 CCB_N03_006 CCB_N03_007 CCB_N03_006 CCB_N03_006 CCB_N03_007 CCB_N03_006 CCB_N03_006 CCB_N03_006 CCB_N03_007 CCB_N03_006					
OCB N01 011 OCB N01 012 OCB N01 013 OCB N01 014 OCB N01 015 OCB N01 016 OCB N01 016 OCB N01 017 OCB N01 018 OCB N01 0019 OCB N01 0019 OCB N01 0019 OCB N01 0019 OCB N02 001 OCB N02 002 OCB N02 003 OCB N02 003 OCB N02 004 OCB N02 005 OCB N02 006 OCB N02 007 OCB N02 007 OCB N02 008 OCB N02 009 OCB N03 001 OCB N03 009 OCB N04 004 OCB N04 009 OCB N04 009 OCB N04 009 OCB N04 009					
OCB N01 012 OCB N01 014 OCB N01 016 OCB N01 016 OCB N01 016 OCB N01 017 OCB N01 019 OCB N01 019 OCB N01 009 OCB N01 009 OCB N01 009 OCB N02 001 OCB N02 002 OCB N02 004 OCB N02 005 OCB N02 006 OCB N02 006 OCB N02 007 OCB N02 006 OCB N02 007 OCB N02 007 OCB N02 007 OCB N02 008 OCB N02 009 OCB N02 010 OCB N02 010 OCB N02 010 OCB N02 011 OCB N02 012 OCB N02 014 OCB N02 015 OCB N02 016 OCB N02 016 OCB N02 016 OCB N03 001 OCB N03 009 OCB N03 001 OCB N03 009 OCB N04 009 OCB N04 009					
OCB NO1 013 OCB NO1 014 OCB NO1 016 OCB NO1 016 OCB NO1 017 OCB NO1 018 OCB NO1 018 OCB NO1 020 OCB NO1 020 OCB NO2 001 OCB NO2 001 OCB NO2 003 OCB NO2 004 OCB NO2 005 OCB NO2 006 OCB NO2 007 OCB NO2 008 OCB NO2 009 OCB NO2 009 OCB NO2 006 OCB NO2 007 OCB NO2 007 OCB NO2 008 OCB NO2 009 OCB NO2 010 OCB NO3 001 OCB NO3 001 OCB NO3 001 OCB NO3 005 OCB NO3 006 OCB NO3 009 OCB NO3 001 OCB NO3 009 OCB NO4 000 OCB NO4 000 OCB NO4 000 OCB NO4 006 OCB NO4 009					
GCB N01 014 CCB N01 016 CCB N01 016 CCB N01 018 CCB N01 019 CCB N01 019 CCB N02 001 CCB N02 003 CCB N02 003 CCB N02 004 CCB N02 005 CCB N02 006 CCB N02 006 CCB N02 007 CCB N02 008 CCB N02 009 CCB N02 010 CCB N02 011 CCB N02 015 CCB N02 016 CCB N02 016 CCB N03 001 CCB N03 006 CCB N03 007 CCB N03 007 CCB N03 009 CCB N03 001 CCB N03 006 CCB N03 007 CCB N03 007 CCB N03 008 CCB N03 009 CCB N04 001 CCB N04 005 CCB N04 006 CCB N04 006 CCB N04 007 CCB N04 006 CCB N04 006 CCB N04 007 CCB N04 009					
OCB NO1 015 OCB NO1 016 OCB NO1 017 OCB NO1 018 OCB NO1 019 OCB NO1 020 OCB NO2 002 OCB NO2 003 OCB NO2 004 OCB NO2 005 OCB NO2 006 OCB NO2 006 OCB NO2 007 OCB NO2 007 OCB NO2 007 OCB NO2 008 OCB NO2 009 OCB NO2 007 OCB NO2 007 OCB NO2 008 OCB NO2 009 OCB NO2 009 OCB NO2 010 OCB NO2 011 OCB NO2 011 OCB NO2 012 OCB NO2 013 OCB NO2 014 OCB NO2 015 OCB NO2 016 OCB NO2 016 OCB NO2 016 OCB NO2 016 OCB NO3 001 OCB NO3 004 OCB NO3 005 OCB NO3 006 OCB NO3 007 OCB NO3 009 OCB NO4 000					
CCB NO1 016 CCB NO1 017 CCB NO1 018 CCB NO1 018 CCB NO1 019 CCB NO1 020 CCB NO2 001 CCB NO2 002 CCB NO2 002 CCB NO2 003 CCB NO2 004 CCB NO2 005 CCB NO2 006 CCB NO2 006 CCB NO2 006 CCB NO2 006 CCB NO2 007 CCB NO2 007 CCB NO2 007 CCB NO2 008 CCB NO2 009 CCB NO2 010 CCB NO2 011 CCB NO2 011 CCB NO2 013 CCB NO2 014 CCB NO2 015 CCB NO2 016 CCB NO2 016 CCB NO2 017 CCB NO2 018 CCB NO2 019 CCB NO3 001 CCB NO3 005 CCB NO3 006 CCB NO3 006 CCB NO3 007 CCB NO3 009 CCB NO3 001 CCB NO4 001 CCB NO4 001 CCB NO4 003 CCB NO4 004 CCB NO4 005 CCB NO4 006 CCB NO4 006 CCB NO4 007 CCB NO4 006 CCB NO4 007 CCB NO4 008 CCB NO4 008 CCB NO4 009 CCB NO4 008 CCB NO4 009 CCB NO4 008 CCB NO4 009					
OCB NO1 017 OCB NO1 018 OCB NO1 019 OCB NO1 020 OCB NO2 001 OCB NO2 002 OCB NO2 003 OCB NO2 004 OCB NO2 005 OCB NO2 006 OCB NO2 007 OCB NO2 006 OCB NO2 007 OCB NO2 007 OCB NO2 007 OCB NO2 008 OCB NO2 009 OCB NO2 009 OCB NO2 009 OCB NO2 010 OCB NO2 011 OCB NO2 012 OCB NO2 013 OCB NO2 014 OCB NO2 015 OCB NO2 016 OCB NO3 001 OCB NO3 004 OCB NO3 005 OCB NO3 006 OCB NO3 007 OCB NO3 008 OCB NO3 009 OCB NO4 001 OCB NO4 002 OCB NO4 005 OCB NO4 006 OCB NO4 006 OCB NO4 006 OCB NO4 007 OCB NO4 008 OCB NO4 009					
CCB N01_018 CCB_N01_019 CCB_N01_020 CCB_N02_001 CCB_N02_001 CCB_N02_003 CCB_N02_003 CCB_N02_004 CCB_N02_005 CCB_N02_006 CCB_N02_006 CCB_N02_006 CCB_N02_007 CCB_N02_008 CCB_N02_008 CCB_N02_009 CCB_N02_009 CCB_N02_010 CCB_N02_010 CCB_N02_010 CCB_N02_010 CCB_N02_011 CCB_N02_011 CCB_N02_015 CCB_N02_015 CCB_N02_016 CCB_N02_016 CCB_N02_016 CCB_N02_017 CCB_N02_018 CCB_N02_019 CCB_N02_019 CCB_N02_019 CCB_N02_010 CCB_N03_001 CCB_N03_001 CCB_N03_001 CCB_N03_001 CCB_N03_003 CCB_N03_003 CCB_N03_004 CCB_N03_006 CCB_N03_006 CCB_N03_007 CCB_N03_009 CCB_N03_009 CCB_N03_009 CCB_N03_009 CCB_N03_009 CCB_N03_001					
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OCB_NO2_001 OCB_NO2_002 OCB_NO2_002 OCB_NO2_003 OCB_NO2_004 OCB_NO2_005 OCB_NO2_005 OCB_NO2_006 OCB_NO2_007 OCB_NO2_008 OCB_NO2_009 OCB_NO2_009 OCB_NO2_010 OCB_NO2_011 OCB_NO2_011 OCB_NO2_012 OCB_NO2_014 OCB_NO2_015 OCB_NO2_015 OCB_NO2_016 OCB_NO3_001 OCB_NO3_001 OCB_NO3_003 OCB_NO3_003 OCB_NO3_004 OCB_NO3_005 OCB_NO3_008 OCB_NO3_008 OCB_NO3_008 OCB_NO3_008 OCB_NO3_009 OCB_NO3_001 OCB_NO3_009 OCB_NO3_001 OCB_NO3_009 OCB_NO3_001 OCB_NO3_008 OCB_NO3_001 OCB_NO3_009 OCB_NO3_001 OCB_NO3_009 OCB_NO4_001 OCB_NO4_001 OCB_NO4_002 OCB_NO4_003 OCB_NO4_005 OCB_NO4_006 OCB_NO4_008 OCB_NO4_009 OCB_NO4_008 OCB_NO4_009 OCB_NO4_008					
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OCB_N02_005 OCB_N02_006 OCB_N02_007 OCB_N02_008 OCB_N02_009 OCB_N02_009 OCB_N02_010 OCB_N02_011 OCB_N02_011 OCB_N02_012 OCB_N02_013 OCB_N02_014 OCB_N02_014 OCB_N02_015 OCB_N02_016 OCB_N03_001 OCB_N03_001 OCB_N03_002 OCB_N03_003 OCB_N03_003 OCB_N03_004 OCB_N03_006 OCB_N03_006 OCB_N03_008 OCB_N03_009 OCB_N03_010 OCB_N03_010 OCB_N03_008 OCB_N03_010 OCB_N03_009 OCB_N03_010 OCB_N03_010 OCB_N03_010 OCB_N03_010 OCB_N03_010 OCB_N03_010 OCB_N03_010 OCB_N03_010 OCB_N03_010 OCB_N03_010 OCB_N04_001 OCB_N04_001 OCB_N04_002 OCB_N04_003 OCB_N04_006 OCB_N04_006 OCB_N04_006 OCB_N04_008 OCB_N04_009 OCB_N04_008					
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OCB_N02_008 0CB_N02_009 OCB_N02_010 0CB_N02_011 OCB_N02_011 0CB_N02_012 OCB_N02_013 0CB_N02_014 OCB_N02_015 0CB_N02_016 OCB_N02_016 0CB_N03_001 OCB_N03_001 0CB_N03_002 OCB_N03_003 0CB_N03_003 OCB_N03_004 0CB_N03_006 OCB_N03_006 0CB_N03_006 OCB_N03_008 0CB_N03_009 OCB_N03_010 0CB_N03_010 OCB_N03_010 0CB_N03_011 OCB_N04_001 0CB_N04_001 OCB_N04_002 0CB_N04_003 OCB_N04_004 0CB_N04_006 OCB_N04_006 0CB_N04_006 OCB_N04_007 0CB_N04_008 OCB_N04_009 0CB_N04_009					
OCB_N02_009 OCB_N02_010 OCB_N02_011 OCB_N02_012 OCB_N02_013 OCB_N02_014 OCB_N02_014 OCB_N02_015 OCB_N02_016 OCB_N02_016 OCB_N03_001 OCB_N03_001 OCB_N03_002 OCB_N03_003 OCB_N03_004 OCB_N03_005 OCB_N03_006 OCB_N03_006 OCB_N03_009 OCB_N03_009 OCB_N03_010 OCB_N03_009 OCB_N03_011 OCB_N03_011 OCB_N04_001 OCB_N04_002 OCB_N04_002 OCB_N04_004 OCB_N04_006 OCB_N04_006 OCB_N04_008 OCB_N04_008 OCB_N04_008 OCB_N04_008 OCB_N04_009 OCB_N04_008					
OCB_N02_010 0CB_N02_011 OCB_N02_013 0CB_N02_013 OCB_N02_014 0CB_N02_015 OCB_N02_016 0CB_N03_001 OCB_N03_001 0CB_N03_002 OCB_N03_003 0CB_N03_003 OCB_N03_004 0CB_N03_006 OCB_N03_006 0CB_N03_006 OCB_N03_008 0CB_N03_009 OCB_N03_010 0CB_N03_010 OCB_N03_011 0CB_N03_011 OCB_N04_001 0CB_N04_001 OCB_N04_003 0CB_N04_003 OCB_N04_006 0CB_N04_006 OCB_N04_008 0CB_N04_008 OCB_N04_009 0CB_N04_009					
OCB_N02_012 OCB_N02_012 OCB_N02_013 OCB_N02_014 OCB_N02_016 OCB_N02_016 OCB_N03_001 OCB_N03_002 OCB_N03_002 OCB_N03_003 OCB_N03_005 OCB_N03_006 OCB_N03_008 OCB_N03_008 OCB_N03_010 OCB_N03_009 OCB_N03_011 OCB_N03_011 OCB_N04_001 OCB_N04_002 OCB_N04_003 OCB_N04_004 OCB_N04_006 OCB_N04_008 OCB_N04_008 OCB_N04_008 OCB_N04_009 OCB_N04_008					
OCB_N02_012 OCB_N02_013 OCB_N02_014 OCB_N02_016 OCB_N02_016 OCB_N03_001 OCB_N03_001 OCB_N03_002 OCB_N03_003 OCB_N03_004 OCB_N03_005 OCB_N03_006 OCB_N03_007 OCB_N03_008 OCB_N03_009 OCB_N03_009 OCB_N03_010 OCB_N03_010 OCB_N03_010 OCB_N03_011 OCB_N04_001 OCB_N04_001 OCB_N04_003 OCB_N04_003 OCB_N04_004 OCB_N04_005 OCB_N04_008 OCB_N04_008 OCB_N04_009 OCB_N04_008 OCB_N04_009 OCB_N04_009					
OCB_N02_013 OCB_N02_014 OCB_N02_015 OCB_N02_016 OCB_N03_001 OCB_N03_001 OCB_N03_002 OCB_N03_003 OCB_N03_004 OCB_N03_005 OCB_N03_006 OCB_N03_006 OCB_N03_008 OCB_N03_009 OCB_N03_010 OCB_N03_010 OCB_N03_011 OCB_N04_001 OCB_N04_003 OCB_N04_003 OCB_N04_006 OCB_N04_006 OCB_N04_008 OCB_N04_008 OCB_N04_009 OCB_N04_008					
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OCB_N03_007 COB_N03_008 OCB_N03_009 COB_N03_010 OCB_N03_011 COB_N03_011 OCB_N04_001 COB_N04_002 OCB_N04_003 COB_N04_004 OCB_N04_005 COB_N04_006 OCB_N04_008 COB_N04_008 OCB_N04_009 COB_N04_009					
OCB_N03_008 0 OCB_N03_009 0 OCB_N03_010 0 OCB_N03_011 0 OCB_N04_001 0 OCB_N04_002 0 OCB_N04_003 0 OCB_N04_004 0 OCB_N04_005 0 OCB_N04_006 0 OCB_N04_007 0 OCB_N04_008 0 OCB_N04_009 0					
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OCB_N03_011 CB_N04_001 OCB_N04_002 CB_N04_003 OCB_N04_004 CB_N04_005 OCB_N04_006 CB_N04_007 OCB_N04_008 CB_N04_009				+	
OCB_N04_001 CB_N04_002 OCB_N04_003 CB_N04_004 OCB_N04_005 CB_N04_006 OCB_N04_007 CB_N04_008 OCB_N04_009 CB_N04_009				+	
OCB_N04_002 CB_N04_003 OCB_N04_004 CB_N04_005 OCB_N04_006 CB_N04_007 OCB_N04_008 CB_N04_009					
OCB_N04_003 CB_N04_004 OCB_N04_005 CB_N04_006 OCB_N04_007 CB_N04_008 OCB_N04_009 CB_N04_009					
OCB_N04_004 OCB_N04_005 OCB_N04_006 OCB_N04_007 OCB_N04_008 OCB_N04_009					
OCB_N04_005 OCB_N04_006 OCB_N04_007 OCB_N04_008 OCB_N04_009 OCB_N04_009				 	
OCB_N04_006 OCB_N04_007 OCB_N04_008 OCB_N04_009				 	
OCB_N04_007 OCB_N04_008 OCB_N04_009					
OCB_N04_008 OCB_N04_009					
OCB_N04_009					
OCB_N04_010					
	OCB_N04_010				

A.7	Observations
Additional i	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 numbe	er:
Test laborato	ry name:
Date of issue	
Issued to:	
D 0	A begins of took or its or response
B.2	Abstract test suite summary
Protocol spec	EN 301 001-1
ATS specific	ation: EN 301 001-6
Abstract test	method: Remote test method (see ISO/IEC 9646-2)
B.3	Test laboratory
Test laborator	ry identification:
Accreditation	status of the test service:
Accreditation	reference:
Test laborato	ry manager:
Test laborato	ry contact:

Means of te	sting:
Test laborat	ory instructions for completion:
B.4	Client (of the test laboratory)
Client identi	ification:
Client test n	nanager:
Client conta	ct:
Test facilitie	es required:
B.5	System Under Test (SUT)
Name:	
Version:	
SCS referen	ce:
Machine con	nfiguration:
Operating sy	ystem identification:
IUT identifi	cation:
PICS (all lay	yers):
Limitations	of the SUT:

Environmental conditions:

B.6 Protocol information

B.6.1 Protocol identification

Specification reference: EN 301 001-1

Protocol version:

PICS reference:

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

contained in EN 301 001-2.

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	

B.6.2.2 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	such that OCB is provided on an individual number basis		
2.2	such that OCB is provided on an access basis		
2.3	to provide the MSN service		
2.4	not to provide the MSN service		
2.5	such that OCB is provided for a specific basic service		
2.6	such that OCB is provided for all basic services		
2.7	with a specific barring program		
2.8	for access not subscribed to the OCB supplementary service		
2.9	to assign a PIN		
2.10	to make a specific basic service unavailable		
2.11	to mark a Pin as being expired		
2.12	with the number of times an invalid PIN can be specified		
2.13	so that the OCB supplementary service resource is unavailable		
2.14	so that supplementary service interaction is not allowed		

B.6.2.3 Timer values

Table B.3: Timer values

Item	Timer duration	Supported? (Y/N)	Allowed values	Value
3.1	T-ACTIVATE duration in s?		(= 10)	
3.2	T-DEACTIVATE duration in s?		(= 10)	
3.3	T_INTERROGATE duration in s?		(= 10)	
3.4	Wait for the test operator to perform an implicit send action or to wait for a PTC to react (TWAIT). Duration in s.		integer	
3.5	Wait for the IUT to respond to a stimulus sent by the tester (TAC). Duration in s.		integer	
3.6	Control that the IUT does not respond to a stimulus sent by the tester (TNOAC). Duration in s.		integer	
3.7	Wait for RESTART messages after establishment of the multiple frame operation (T_RESTART). Duration in s.		integer	
3.8	Does the IUT send RESTART messages after re-establishment of the multiple frame operation.		Boolean	N/A
NOTE:	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 be beyond the range given by the IUT provider, if this is necessary for achieving satisfactory test results.			

B.6.2.4 Number information parameter values

Table B.4: Parameter values

Item	Question	Supported?	Value		
	provide, if possible,	(Y/N)			
4.1	the coding for a valid individual user number				
4.2	the coding for a invalid individual user number	.			
4.3	a specific basic service for which OCB is activated	OCB is			
4.4	a specific basic service for which OCB is not available				
4.5	a specific basic service for which OCB is not subscribed				
4.6	the value of a valid PIN number				
4.7	the value of an invalid PIN number				
4.8	the value of an expired PIN number				
4.9	the value of an invalid barring program				
4.10	the value of an valid barring program				
4.11	the value of a second valid barring program (used for reactivation)				

B.7 Parameter values - information element codings

Table B.5: 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 and				
	for which the OCB service is not activated, 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 and				
	for which the OCB service is not activated, 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 Bearer Capability information				
	element, which the IUT is compatible with and				
	for which the OCB service is activated, for the				
	purpose of accepting received SETUP				
	messages and which may be used in SETUP				
	messages to be transmitted				
N1.4	a coding of a High layer compatibility information				
	element, which the IUT is compatible with and				
	for which the OCB service is activated, for the				
	purpose of accepting received SETUP				
	messages and which may be used in SETUP				
	messages to be transmitted				
N1.5	a Called party number information element, which	the IUT is compa	atible with, for		
N1.5.1	which the OCB service is activated				
N1.6	preferred channel number to be used for the purp (note)	preferred channel number to be used for the purpose of accepting received SETUP messages, for (note)			
N1.6.1	single call at served user side				
NOTE:	Items N1.6.1 are applicable for primary rate access of	nly.			

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 FormatTM file (ocb_n01.PDF contained in archive 99pi0ie0.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 (ocb_n01.MP contained in archive 99pi0ie0.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.

- ETS 300 196-2: "Integrated Services Digital Network (ISDN); Generic functional protocol for the support of supplementary services; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".
- 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]".
- EN 301 002-1 (V1.1): "Integrated Services Digital Network (ISDN); Security tools (SET) procedures; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- EN 301 082: "Integrated Services Digital Network (ISDN); Outgoing Call Barring-Fixed (OCB-F) supplementary service; Service description".
- EN 301 084: "Integrated Services Digital Network (ISDN); Outgoing Call Barring-User Controlled (OCB-UC) supplementary service; Service description".
- ETR 232: "Security Techniques Advisory Group (STAG); Glossary of security terminology".

History

Document history				
V1.1.2	April 1999	Public Enquiry	PE 9935:	1999-04-30 to 1999-08-27
V1.1.3	September 1999	Vote	V 9949:	1999-09-21 to 1999-11-19