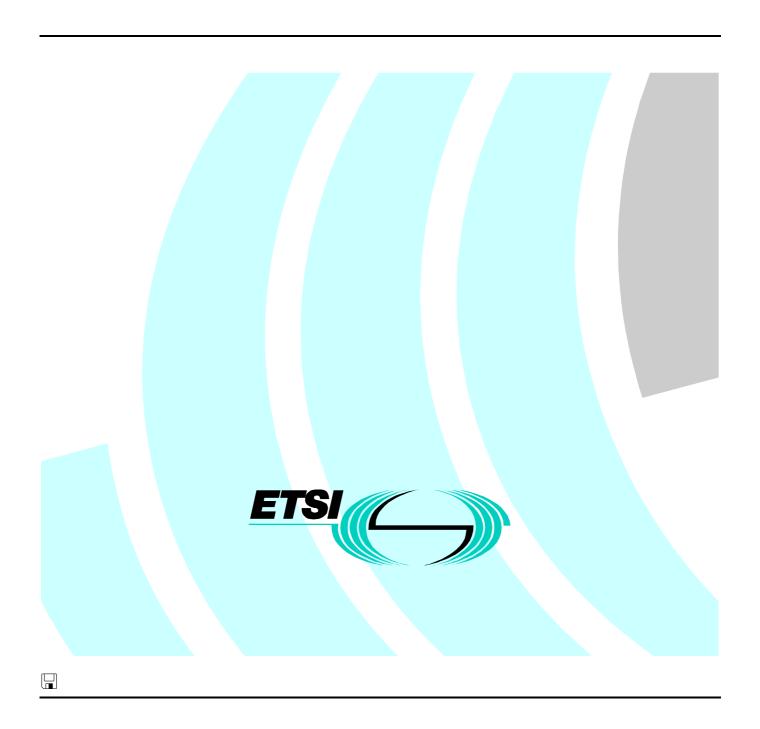
Draft EN 300 745-4 V1.2.2 (1999-01)

European Standard (Telecommunications series)

Integrated Services Digital Network (ISDN);
Message Waiting Indicating (MWI) 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

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Keywords

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Foreword

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

The present document is part 4 of a multi-part standard covering the Digital Subscriber Signalling System No. one (DSS1) protocol specification for the Integrated Services Digital Network (ISDN) Message Waiting Indication (MWI) supplementary service, 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: "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 transpositio	on 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 the 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 the implementations conforming to the stage three standard for the Message Waiting Indication (MWI) supplementary service for the pan-European Integrated Services Digital Network (ISDN) by means of the Digital Subscriber Signalling System No. one (DSS1) protocol, EN 300 745-1 [1].

EN 300 745-3 [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 Network side of the T reference point or coincident S and T reference point of the implementations conforming to EN 300 745-1 [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 300 745-1 (V1.2): "Integrated Services Digital Network (ISDN); Message Waiting Indication(MWI) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [2] EN 300 745-3 (V1.2): "Integrated Services Digital Network (ISDN); Message Waiting Indication(MWI) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 3: "Test Suite Structure and Test Purposes (TSS&TP) specification for the user".
- [3]] 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".
- [4] 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".
- [5] 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]".
- [6] ISO/IEC 9646: "Information technology -- Open Systems Interconnection -- Conformance testing methodology and framework" (all parts).
- [7] 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)".
- [8] ISO/IEC 8825-1: "Information technology Encoding Rules for Abstract Syntax Notation One (ASN.1) Part 1: Specification of Basic Encoding Rules (BER), Canonical Encoding Rules (CER) and Distinguished Encoding Rules (DER)".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in ISO/IEC 9646 [6] apply.

3.2 Abbreviations

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

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

LT Lower Tester
MOT Means Of Testing

MWI Message Waiting Indication
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

4 Abstract Test Method

The remote test method is applied for the MWI user 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 System Under Test (SUT). This is regarded as a preferred alternative to the use of the implicit send event.

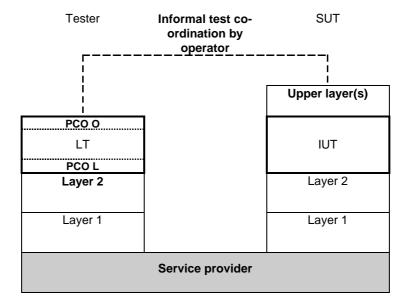


Figure 1: Remote test method with PCO O for test co-ordination

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 [7].

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" Tree and Tabular Combined Notation (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 [6] and in TR 101 101 [7] 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 [6] 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 [8]. 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 [3], 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 [3] 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
                   DeactInv3
ASN.1 Type
                  Component
Derivation
           Path
                  ASN1_Encoding: BER
Comments
                  Receive component: MWI Deactivate Invoke component with no optional parameters
mWIDeactivate_Components
 mWIDeactivate_InvokeComp
      invokeID
                          globalValue mWIDeactivate,
      operation value
         argument
                   receivingUserNr
                                       ?,
                   basicservice
                      }
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 Protocol Conformance Test Report (PCTR), is required, as specified in ISO/IEC 9646-5 [6], to produce a PCTR conformant with the PCTR template given in annex B of ISO/IEC 9646-5 [6].

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 [6], 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 [6], 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 [6], 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 [6].

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 Humber.	
PCTR date:	
Corresponding SCTR number:	
Corresponding Corrections	
Corresponding SCTR date:	
Corresponding SCTR date.	
Test laboratory identification:	
Test laboratory manager:	
, ,	
Signature:	

A.1.2 IUT identification

Name:	
Version:	
Protocol specification: PICS:	EN 300 745-1
Previous PCTRs (if any):	

A.1.3 Testing environment

PIXIT reference number:	
ATS specification:	EN 300 745-4
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 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 Protocol Implementation Conformance Statement (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

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

MWI U01 002 MWI U01 003 MWI U01 004 MWI U01 005 MWI U01 006 MWI U01 007 MWI U01 007 MWI U01 008 MWI U01 007 MWI U01 008 MWI U01 008 MWI U01 009 MWI U01 009 MWI U01 009 MWI U01 009 MWI U01 010 MWI U01 010 MWI U01 010 MWI U01 011 MWI U01 011 MWI U01 012 MWI U02 013 MWI U02 001 MWI U02 003 MWI U02 004 MWI U02 004 MWI U02 005 MWI U02 006 MWI U02 007 MWI U02 008 MWI U02 009 MWI U04 000 MWI U04 001 MWI U04 000 MWI U04 000 MWI U04 001 MWI U04 001 MWI U04 006 MWI U04 007 MWI U04 007 MWI U04 008 MWI U04 009 MWI U05 009	ATS reference	Selected? (Y/N)	Run? (Y/N)	Verdict	Observations
MWI U01 003 MWI U01 005 MWI U01 005 MWI U01 005 MWI U01 005 MWI U01 007 MWI U01 007 MWI U01 008 MWI U01 009 MWI U01 009 MWI U01 011 MWI U01 011 MWI U01 011 MWI U01 013 MWI U02 002 MWI U02 002 MWI U02 003 MWI U02 004 MWI U02 005 MWI U02 006 MWI U02 006 MWI U02 007 MWI U02 007 MWI U02 007 MWI U02 008 MWI U02 009 MWI U02 001 MWI U03 002 MWI U04 001 MWI U03 003 MWI U04 001 MWI U04 001 MWI U04 001 MWI U04 002 MWI U04 002 MWI U04 002 MWI U04 003 MWI U04 001 MWI U04 005 MWI U04 007 MWI U04 008 MWI U04 009 MWI U04 009 MWI U05 007 MWI U05 007 MWI U05 007 MWI U05 008 MWI U05 007 MWI U05 008 MWI U05 009 MW	MWI_U01_001	, ,	• •		
MWI_U01_005 MWI_U01_005 MWI_U01_005 MWI_U01_007 MWI_U01_008 MWI_U01_009 MWI_U01_010 MWI_U01_011 MWI_U01_012 MWI_U01_013 MWI_U01_013 MWI_U02_003 MWI_U02_003 MWI_U02_006 MWI_U02_006 MWI_U02_006 MWI_U02_006 MWI_U02_006 MWI_U02_006 MWI_U02_006 MWI_U02_007 MWI_U02_008 MWI_U02_009 MWI_U04_001 MWI_U04_003 MWI_U04_001 MWI_U04_003 MWI_U04_003 MWI_U04_009 MWI_U05_009 MWI_U05_009 MWI_U05_009 MWI_U06_009 MWI_U06_009					
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MWI, U01, 007 MWI, U01, 008 MWI, U01, 009 MWI, U01, 010 MWI, U01, 011 MWI, U01, 011 MWI, U01, 011 MWI, U01, 012 MWI, U01, 013 MWI, U01, 013 MWI, U02, 001 MWI, U02, 001 MWI, U02, 003 MWI, U02, 006 MWI, U02, 006 MWI, U02, 006 MWI, U02, 007 MWI, U02, 007 MWI, U02, 007 MWI, U02, 007 MWI, U02, 009 MWI, U02, 009 MWI, U02, 009 MWI, U03, 001 MWI, U03, 001 MWI, U03, 001 MWI, U04, 001 MWI, U04, 001 MWI, U04, 004 MWI, U04, 004 MWI, U04, 004 MWI, U04, 007 MWI, U04, 008 MWI, U04, 009 MWI, U04, 009 MWI, U04, 009 MWI, U04, 009 MWI, U04, 001 MWI, U04, 007 MWI, U04, 007 MWI, U04, 008 MWI, U04, 009 MWI, U04, 009 MWI, U04, 009 MWI, U04, 001 MWI, U04, 009 MWI, U04, 009 MWI, U04, 009 MWI, U04, 001 MWI, U04, 001 MWI, U04, 007 MWI, U04, 008 MWI, U04, 009 MWI, U05, 004 MWI, U05, 006 MWI, U06, 006 MWI, U06, 006 MWI, U06, 006 MWI, U06, 008 MWI, U06, 008 MWI, U06, 008					
MWL U01.008 MWL U01.008 MWL U01.008 MWL U01.010 MWI U01.011 MWL U01.012 MWL U01.013 MWL U02.001 MWL U02.002 MWL U02.002 MWL U02.003 MWL U02.004 MWL U02.005 MWL U02.006 MWL U02.006 MWL U02.007 MWL U02.008 MWL U02.008 MWL U02.008 MWL U02.008 MWL U02.009 MWL U03.009 MWL U03.001 MWL U04.001 MWL U04.003 MWL U04.004 MWL U04.005 MWL U04.005 MWL U04.005 MWL U04.006 MWL U04.006 MWL U04.007 MWL U04.008 MWL U04.009 MWL U05.009					
MWI, U01-009 MWI, U01-010 MWI, U01-010 MWI, U01-011 MWI, U01-012 MWI, U01-013 MWI, U02-001 MWI, U02-001 MWI, U02-003 MWI, U02-003 MWI, U02-005 MWI, U02-006 MWI, U02-006 MWI, U02-006 MWI, U02-007 MWI, U02-008 MWI, U02-009 MWI, U02-010 MWI, U02-010 MWI, U03-001 MWI, U03-002 MWI, U04-001 MWI, U04-001 MWI, U04-002 MWI, U04-003 MWI, U04-004 MWI, U04-005 MWI, U04-005 MWI, U04-005 MWI, U04-009 MWI,					
MWI_U01_009 MWI_U01_010 MWI_U01_011 MWI_U01_013 MWI_U02_001 MWI_U02_002 MWI_U02_003 MWI_U02_003 MWI_U02_005 MWI_U02_006 MWI_U02_006 MWI_U02_007 MWI_U02_007 MWI_U02_007 MWI_U02_009 MWI_U02_009 MWI_U02_009 MWI_U02_009 MWI_U02_011 MWI_U03_001 MWI_U03_001 MWI_U03_001 MWI_U03_002 MWI_U03_002 MWI_U04_004 MWI_U04_006 MWI_U04_006 MWI_U04_006 MWI_U04_007 MWI_U04_001 MWI_U04_001 MWI_U04_006 MWI_U04_001 MWI_U04_001 MWI_U04_001 MWI_U04_001 MWI_U04_006 MWI_U04_001 MWI_U04_001 MWI_U04_001 MWI_U04_001 MWI_U04_001 MWI_U04_006 MWI_U04_006 MWI_U04_007 MWI_U04_001 MWI_U04_001 MWI_U04_001 MWI_U04_001 MWI_U04_001 MWI_U04_001 MWI_U04_006 MWI_U04_007 MWI_U04_001 MWI_U05_001 MWI_U05_005 MWI_U05_001 MWI_U05_001 MWI_U05_001 MWI_U05_001 MWI_U06_001 MWI_U06_003 MWI_U06_003 MWI_U06_006 MWI_U06_006 MWI_U06_006 MWI_U06_006 MWI_U06_007 MWI_U06_007 MWI_U06_007 MWI_U06_007 MWI_U06_007 MWI_U06_007 MWI_U06_007 MWI_U06_007 MWI_U06_008					
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MWI U02 005					
MWI_U02_006					
MWI U02 007					
MWI_U02_008					
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MWI_U07_010			

A. /	Observations
Additional inf	formation 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		EN 300 745-1
ATS specific	eation:	EN 300 745-4
Abstract test	method:	Remote test method (see ISO/IEC 9646-2)
B.3	Test laborato	ry
Test laborate	ory identification:	
Accreditation	n status of the test service:	
Accreditation	n reference:	
Test laborate	ry manager:	
Test laborate	ory contact:	
Means of tes	ting:	

Client test manager: Client contact: Test facilities required: B.5 System Under Test (SUT) Name:	1 est laborator	y instructions for completion:
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:		
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:	Client test man	nager:
B.5 System Under Test (SUT) Name: Version: SCS reference: Machine configuration: Operating system identification: IUT identification: PICS (all layers): Limitations of the SUT:	Client contact:	:
Name: Version: SCS reference: Machine configuration: Operating system identification: IUT identification: PICS (all layers): Limitations of the SUT:	Test facilities	required:
SCS reference: Machine configuration: Operating system identification: IUT identification: PICS (all layers): Limitations of the SUT:	B.5 Name:	System Under Test (SUT)
Machine configuration: Operating system identification: IUT identification: PICS (all layers): Limitations of the SUT:	Version:	
Operating system identification: IUT identification: PICS (all layers): Limitations of the SUT:	SCS reference	:
IUT identification: PICS (all layers): Limitations of the SUT:	Machine confi	iguration:
PICS (all layers): Limitations of the SUT:	Operating syst	tem identification:
Limitations of the SUT:	IUT identifica	tion:
	PICS (all layer	rs):
Environmental conditions:	Limitations of	the SUT:
	Environmenta	l conditions:

B.6 Protocol information

B.6.1 Protocol identification

Specification reference: EN 300 745-1

Protocol version:

PICS reference:

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

contained in EN 300 745-2.

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	Indicate the basic service being used?			

B.6.2.2 Sending of messages by IUT

Table B.2: Actions required to stimulate IUT to send messages

Item	Action: What actions, if possible, have to be taken to cause the IUT to	Supported? (Y/N)	Stimulus (action taken)
2.1	Activate the MWI supplementary service at the controlling user?		
2.2	Deactivate the MWI supplementary service at the controlling user?		

B.6.2.3 Timer values

Table B.3: Timer values

Item	Timer:	Value	
	Give a value for the timer that is used to	(in seconds)	
3.1	wait for the test operator to perform an implicit send action (TWAIT)		
3.2	wait for the IUT to respond to a stimulus sent by the tester (TAC)		
3.3	check that the IUT does not respond to a stimulus sent by the tester (TNOAC)		
NOTE:	IOTE: The IUT provider may fill in a value range rather than a fixed value for the test management timers. During test execution the test laboratory will choose specific values for the timers dependant on the means of testing used. These specific values may even be beyond the range given by the IUT provider, this is necessary for achieving satisfactory test results.		

B.6.2.4 Number information parameter values

Table B.4: Parameter values

Item	Question	Supported? (Y/N)	Value
4.1	Give the coding for a receiving user number		
4.2	Give the coding for a controlling user number		
4.3	Give the coding of a controlling user provided number		
4.4	Give the coding for an invalid receiving user number		
4.5	Give the coding for an invalid served user number		
4.6	Give the coding for an unsubscribed receiving user number		
4.7	Give the coding for the message identification		
4.8	Give the coding for an unregistered controlling user number		
4.9	Give the coding for an unsubscribed controlling user number		

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 [6].

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.

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

The TTCN.GR representation of this ATS is contained in an Adobe Portable Document Format[™] file (sp506941.PDF contained in archive 6wd00ipc.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 (sp506941.MP contained in archive 6wd00ipc.ZIP) which accompanies the present document.

NOTE: According to ISO/IEC 9646-3 [6], in case of a conflict in interpretation of the operational semantics of TTCN.GR and TTCN.MP, the operational semantics of the TTCN.GR representation takes precedence.

Bibliography

The following material, though not specifically referenced in the body of the present document (or not publicly available), gives supporting information.

- ITU-T Recommendation Q.931 (1993): "ISDN user-network interface layer 3 specification for basic call control".
- ITU-T Recommendation X.690 (1994):"Information technology ASN.1 encoding rules: Specification of Basic Encoding Rules (BER), Canonical Encoding Rules (CER) and Distinguished Encoding Rules (DER)".
- EN 300 745-2 (V1.2): "Integrated Services Digital Network (ISDN); Message Waiting Indication(MWI) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".

History

Document history					
V1.2.2	January 1999	Public Enquiry	PE 9918:	1999-01-01 to 1999-04-30	