



**SLOVENSKI STANDARD**  
**DSIST ETS 300 188-4:1997**  
**01-c\_1cVYf-1997**

---

8 [[ ]HJbc`ca fYy`Y`n`]bhY[ f]fUb]a ]`g]c]f]h]j Ua ]`f]G8 B!`'8 cdc`b]`bU]g]c]f]h]j .  
\_cbZyfYbWU]fY `fi DHM!`Dfc]c\_c`X[[ ]HJbY`bU]c b]y`Y`g[[ bU]nUW]Y`y]h`%fB GG%!  
( "XY. `B]n`UVg]fU`fb] `dfYg\_i gcj `f5 HGL]b`XY`bU]XcXU]bU]bZ]fa UW]U`nU  
dfYg\_i yUb`Y]nj YXVY`dfc]c\_c`U]fD`L`+L!`DfcZ]fa bU]gdYW]Z\_UW]U`nU`i dcfUWb]\_U

Integrated Services Digital Network (ISDN); Three-Party (3PTY) 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

**Ta slovenski standard je istoveten z: ETS 300 188-4 Edition 1**

---

**ICS:**

33.080	Digitalno omrežje z integriranimi storitvami (ISDN)	Integrated Services Digital Network (ISDN)
--------	---	--

<b>DSIST ETS 300 188-4:1997</b>	<b>en</b>
---------------------------------	-----------





**E**UROPEAN  
**T**ELECOMMUNICATION  
**S**TANDARD

**ETS 300 188-4**

October 1996

---

Source: ETSI TC-SPS

Reference: DE/SPS-05061-J2-4

ICS: 33.080

**Key words:** ISDN, DSS1, supplementary service, 3PTY, testing, ATS, PIXIT, user

**Integrated Services Digital Network (ISDN);  
Three-Party (3PTY) 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**

**ETSI**

European Telecommunications Standards Institute

**ETSI Secretariat**

**Postal address:** F-06921 Sophia Antipolis CEDEX - FRANCE

**Office address:** 650 Route des Lucioles - Sophia Antipolis - Valbonne - FRANCE

**X.400:** c=fr, a=atlas, p=etsi, s=secretariat - **Internet:** secretariat@etsi.fr

Tel.: +33 4 92 94 42 00 - Fax: +33 4 93 65 47 16

---

**Copyright Notification:** No part may be reproduced except as authorized by written permission. The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 1996. All rights reserved.



## Contents

Foreword .....	5
1 Scope .....	7
2 Normative references .....	7
3 Definitions and abbreviations .....	8
3.1 Definitions .....	8
3.2 Abbreviations .....	8
4 Abstract Test Method (ATM) .....	9
5 Untestable test purposes .....	9
6 ATS conventions .....	9
6.1 Declarations part .....	9
6.1.1 Type definitions .....	9
6.1.1.1 Simple type definitions .....	9
6.1.1.2 Structured type definitions .....	10
6.1.1.2.1 TTCN structured type definitions .....	10
6.1.1.2.2 ASN.1 structured type definitions .....	10
6.1.1.3 ASP type definitions .....	11
6.1.1.3.1 TTCN ASP type definitions .....	11
6.1.1.3.2 ASN.1 ASP type definitions .....	12
6.1.1.4 PDU type definitions .....	12
6.1.1.4.1 TTCN PDU type definitions .....	12
6.1.1.4.2 ASN.1 PDU type definitions .....	12
6.1.2 Test suite constants .....	12
6.1.3 Test suite parameters .....	12
6.1.4 Variables .....	12
6.1.4.1 Test suite variables .....	12
6.1.4.2 Test case variables .....	12
6.1.5 Test suite operation definitions .....	13
6.2 Constraints part .....	13
6.2.1 Structured type constraint declaration .....	13
6.2.2 ASN.1 type constraint declaration .....	13
6.2.2.1 Specification of encoding rules .....	14
6.2.3 ASP type constraint declaration .....	15
6.2.3.1 ASN.1 ASP type constraint declaration .....	15
6.2.3.2 TTCN ASP type constraint declaration .....	15
6.2.4 PDU type constraint declaration .....	15
6.2.4.1 ASN.1 PDU type constraint declaration .....	15
6.2.4.2 TTCN PDU type constraint declaration .....	15
6.2.5 Chaining of constraints .....	15
6.2.5.1 Static chaining .....	15
6.2.5.2 Dynamic chaining .....	15
6.2.6 Derived constraints .....	16
6.2.7 Parameterized constraints .....	16
6.2.8 Value assignment .....	16
6.2.8.1 Specific values .....	16
6.2.8.2 Matching values .....	16
6.3 Dynamic part .....	16
6.3.1 Test cases .....	16
6.3.2 Test steps .....	16
6.3.3 Defaults .....	16
7 ATS to TP map .....	17

8	PCTR conformance .....	17
9	PIXIT conformance.....	17
10	ATS conformance.....	17
	Annex A (normative): Protocol Conformance Test Report (PCTR) proforma .....	18
A.1	Identification summary.....	18
A.1.1	Protocol conformance test report.....	18
A.1.2	IUT identification.....	18
A.1.3	Testing environment.....	18
A.1.4	Limits and reservations .....	19
A.1.5	Comments.....	19
A.2	IUT conformance status .....	19
A.3	Static conformance summary.....	19
A.4	Dynamic conformance summary.....	19
A.5	Static conformance review report.....	20
A.6	Test campaign report.....	20
A.7	Observations.....	21
	Annex B (normative): Partial PIXIT proforma .....	22
B.1	Identification summary.....	22
B.2	Abstract test suite summary .....	22
B.3	Test laboratory.....	22
B.4	Client (of the test laboratory) .....	23
B.5	System Under Test (SUT) .....	23
B.6	Protocol information.....	24
B.6.1	Protocol identification .....	24
B.6.2	Parameter values .....	24
B.6.3	Sending of messages by IUT .....	24
	Annex C (normative): Abstract Test Suite (ATS) .....	25
C.1	The TTCN Graphical form (TTCN.GR) .....	25
C.2	The TTCN Machine Processable form (TTCN.MP) .....	25
	Annex D (informative): General structure of ATS .....	26
	History .....	27

**Foreword**

This European Telecommunication Standard (ETS) has been produced by the Signalling Protocols and Switching (SPS) Technical Committee of the European Telecommunications Standards Institute (ETSI).

This ETS 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) Three-Party (3PTY) 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: "ATS and partial PIXIT proforma specification for the network".

<b>Transposition dates</b>	
Date of adoption of this ETS:	4 October 1996
Date of latest announcement of this ETS (doa):	31 January 1997
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	31 July 1997
Date of withdrawal of any conflicting National Standard (dow):	31 July 1997

Blank page