

SLOVENSKI STANDARD SIST ETS 300 403-6:1998

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Digitalno omrežje z integriranimi storitvami (ISDN) - Protokol digitalne naročniške signalizacije št. 1 (DSS1) - Signalizacijska omrežna plast za krmiljenje vodovnega osnovnega klica - 6. del: Zgradba preskušalnega niza in namen preskušanja (TSS&TP) - Specifikacija za omrežje

Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 6: Test Suite Structure and Test Purposes (TSS&TP) specification for the network

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33.080 Digitalno omrežje z Integrated Services Digital

integriranimi storitvami Network (ISDN)

(ISDN)

35.100.30 Omrežni sloj Network layer

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Signalling network layer for circuit-mode basic call control;
Part 6: Test Suite Structure and Test Purposes (TSS&TP)

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specification for the network

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Contents

Fore	eword					5
1	Scope.					7
2	Normat	tive reference	ces			7
3	Definition	ons				8
	3.1					
	3.2					
4	Abbrev	iations				9
5	Test Su	uite Structur	e (TSS)			10
6	Test purposes (TP)					
	6.1					
		6.1.1 TP naming convention				
		6.1.2				
		6.1.3	TP structure.			12
		6.1.4	Test strategy	,		12
		6.1.5	Test of call st	tates		12
		6.1.6	Test of point-	to-multipoint confid	gufations I	13
		6.1.7	Test of inopp	ortune and syntact	ically invalid behaviour	13
	6.2	TPs for th			R.i.)	
		6.2.1	Null call state	N00	······	13
			6.2.1.1 SIST	Valid		13
		1-44 //-4-	<u> 2121 </u> -1-4-1/1-4/-1-1-	6.2.1.1.1	Outgoing call 60-bincoming call - point-to-point	13
		nttps://sta	andards.iten.avcatalo	6.2.1.1.2	incoming call - point-to-point	
			/6a//b4eb10	c4/sist-ets-300-403-6-	configuration	17
				6.2.1.1.3	Incoming call - point-to-multipoint	
					configuration	
				6.2.1.1.4	Call rearrangement	
			6.2.1.2			
			6.2.1.3		valid	
		6.2.2				
			6.2.2.1			
			6.2.2.2	Inopportune		25
			6.2.2.3		valid	
		6.2.3			tate N03	
			6.2.3.1			
			6.2.3.2			
			6.2.3.3		valid	
		6.2.4				
			6.2.4.1			
			6.2.4.2			
			6.2.4.3		valid	
		6.2.5				
			6.2.5.1			
				6.2.5.1.1	Point-to-point configuration	
				6.2.5.1.2	Point-to-multipoint configuration	
			6.2.5.2			
			6.2.5.3		valid	
		6.2.6				
			6.2.6.1	Valid		
				6.2.6.1.1	Point-to-point configuration	
				6.2.6.1.2	Point-to-multipoint configuration	41

Page 4 ETS 300 403-6: January 1997

		6.2.6.2			
	0.07	6.2.6.3		d	
	6.2.7	•		e N09	
		6.2.7.1	6.2.7.1.1	Doint to point configuration	
			*	Point-to-point configuration	
		6272	6.2.7.1.2	Point-to-multipoint configuration	
		6.2.7.2		٠	
	0.00	6.2.7.3		d	
	6.2.8			ll)	
		6.2.8.1 6.2.8.2			
	620	6.2.8.3		id	
	6.2.9			ll)	
		6.2.9.1			
		6.2.9.2			
	0.040	6.2.9.3		d	
	6.2.10			2 (Incoming call)	
		6.2.10.1			
		6.2.10.2			
	0.044	6.2.10.3		d	
	6.2.11			2 (Outgoing call)	
		6.2.11.1			
		6.2.11.2			
	0.040	6.2.11.3		d	
	6.2.12			ncoming call)	
		6.2.12.1			
		6.2.12.2			
		6.2.12.3	Syntactically invali	d utgoing call)	. 66
	6.2.13	Release Reque	est call state N19 (C	outgoing call)	. 66
		6.2.13.1	Valid	teh.ai)	66
		6.2.13.3		d	
	6.2.14			6:1998	
	6.2.15	Overlap Receiv	ing call state N25	st/effa4b60-b974-44a2-a5ae-	. 70
		6.2.15.1 _{76a}	7 264e61c4/sist-ets-300	0-403-6-1998	70
		, 04	6.2.15.1.1)-403-6-1998 Point-to-point configuration	70
			6.2.15.1.2	Point-to-multipoint configuration	71
		6.2.15.2			
		6.2.15.3		d	
	6.2.16	Restart Null cal		ng call)	
		6.2.16.1			
		6.2.16.2			
		6.2.16.3		d	
	6.2.17	Restart null cal		ng call)	
		6.2.17.1			
		6.2.17.2	Inopportune		. 80
		6.2.17.3		d	
	6.2.18	Restart Reques			
		6.2.18.1	Valid		82
		6.2.18.2	Inopportune		. 82
		6.2.18.3		d	
	6.2.19	Message segm			
		6.2.19.1	•		
		6.2.19.2	Inopportune		. 85
		6.2.19.3		d	
7	Compliance				. 86
8	Requirements for a	comprehensive te	sting service		86
	•	•	-		
Histo	ry				. 87

Page 5 ETS 300 403-6: January 1997

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 6 of a multi-part standard covering the Digital Subscriber Signalling System No. one (DSS1) protocol specification for the Integrated Services Digital Network (ISDN) signalling network layer for circuit-mode basic call control, as described below:

Part 1:	"Protocol specification	ITU-T Recommendation Q.931 (1993), modified]";

Part 2: "Specification and Description Language (SDL) diagrams";

Part 3: "Protocol Implementation Conformance Statement (PICS) proforma specification";

Part 4: "Test Suite Structure and Test Purposes (TSS&TP) specification for the user";

Part 5: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing

(PIXIT) proforma specification for the user";

Part 6: "TSS&TP specification for the network";

Part 7: "ATS and partial PIXIT proforma specification for the network".

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SIST ETS 300 403-6:1998

Page 6

ETS 300 403-6: January 1997

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Page 7 ETS 300 403-6: January 1997

1 Scope

This sixth part of ETS 300 403 specifies the network Test Suite Structure and Test Purposes (TSS&TP) for the T reference point or coincident S and T reference point (as defined in ITU-T Recommendation I.411 [9]) of implementations conforming to the standards for the signalling network layer for circuit-mode basic call control of the Digital Subscriber Signalling System No. one (DSS1) protocol for the pan-European Integrated Services Digital Network (ISDN), ETS 300 403-1 [1] and ETS 300 403-2 [2].

A further part of this ETS specifies the Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma based on this ETS. 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 ETS 300 403-1 [1] and ETS 300 403-2 [2].

2 Normative references

This ETS incorporates by dated and undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this ETS only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

[1]	ETS 300 403-1 (1995): "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 1: Protocol specification [ITU-T Recommendation Q.931 (1993), modified]".
[2]	ETS 300 403-2 (1995): "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 2: Specification and Description Language (SDL) diagrams 1: 10.21
[3]	ETS 300 403-3 (1996): "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".
[4]	ISO/IEC 9646-1: "Information Technology - OSI Conformance Testing Methodology and Framework; Part 1: General Concepts".
[5]	ISO/IEC 9646-2: "Information Technology - OSI Conformance Testing Methodology and Framework; Part 2: Abstract Test Suite Specification".
[6]	ISO/IEC 9646-3: "Information Technology - OSI Conformance Testing Methodology and Framework; Part 3: The Tree and Tabular Combined Notation".
[7]	CCITT Recommendation E.164 (1991): "Numbering plan for the ISDN era".
[8]	ITU-T Recommendation I.112 (1993): "Vocabulary and terms for ISDNs".
[9]	ITU-T Recommendation I.411 (1993): "ISDN user-network interfaces - Reference configurations".

Page 8

ETS 300 403-6: January 1997

3 Definitions

For the purposes of this ETS, the following definitions apply, in addition to those given in ETS 300 403-1 [1]:

3.1 Definitions related to conformance testing

abstract test case: Refer to ISO/IEC 9646-1 [4].

Abstract Test Method (ATM): Refer to ISO/IEC 9646-1 [4].

Abstract Test Suite (ATS): Refer to ISO/IEC 9646-1 [4].

active test: A test case where the IUT is required to send a particular message, but not in reaction to a received message. This would usually involve the use of PIXIT information to see how this message can be generated and quite often is specified in an ATS using an implicit send event.

Implementation Under Test (IUT): Refer to ISO/IEC 9646-1 [4].

implicit send event: Refer to ISO/IEC 9646-3 [6].

lower tester: Refer to ISO/IEC 9646-1 [4].

passive test: A test case where the IUT is required to respond to a protocol event (e.g. received message) with another protocol event (sends message) and which normally does not require any special operator intervention such as is associated with the implicit send event.

point of control and observation: Refer to ISO/IEC 9646-1 [4]. PREVIEW

Protocol Implementation Conformance Statement (PICS): Refer to ISO/IEC 9646-1 [4].

PICS proforma: Refer to ISO/IEC 9646-1 [4]. SIST ETS 300 403-6:1998

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Protocol Implementation eXtra Information for Testing (PIXIT): Refer to ISO/IEC 9646-1 [4].

PIXIT proforma: Refer to ISO/IEC 9646-1 [4].

system under test: Refer to ISO/IEC 9646-1 [4].

Test Purpose (TP): Refer to ISO/IEC 9646-1 [4].

3.2 Definitions related to ETS 300 403-1

Integrated Services Digital Network (ISDN): See ITU-T Recommendation I.112 [8], definition 308.

ISDN number: A number conforming to the numbering and structure specified in CCITT Recommendation E.164 [7].

network: The DSS1 protocol entity at the Network side of the user-network interface where a T reference point or coincident S and T reference point applies.

network (S/T): The DSS1 protocol entity at the Network side of the user-network interface where a coincident S and T reference point applies.

network (T): The DSS1 protocol entity at the Network side of the user-network interface where a T reference point applies (user is the private ISDN).

Page 9 ETS 300 403-6: January 1997

4 Abbreviations

For the purposes of this ETS, the following abbreviations apply:

ATM Abstract Test Method ATS Abstract Test Suite

CES Connection Endpoint Suffix

CR Call Reference

DSS1 Digital Subscriber Signalling System No. one

I Inopportune stimulus

ISDN Integrated Services Digital Network

IUT Implementation Under Test

N00 Null call state

N01 Call Initiated call state
N02 Overlap Sending call state

N03 Outgoing Call Proceeding call state

N04 Call Delivered call state
N06 Call Present call state
N07 Call Received call state
N08 Connect Request call state

N09 Incoming Call Proceeding call state

N10 Active call state

N11 Disconnect Request call state
 N12 Disconnect Indication call state
 N15 Suspend Request call state
 N17 Resume Request call state
 N19 Release Request call state

N22
N25
PICS

T Call Abort call state PREVIEW
Overlap Receiving call state
Protocol Implementation Conformance Statement

PIXIT Protocol Implementation eXtra Information for Testing R00 Restart Null call state

R01 Restart Request call state 3-6:1998

R02 https://staRestaitecall/state/standards/sist/effa4b60-b974-44a2-a5ae-

S Syntactically invalidistimulus-403-6-1998
SEG message Segmentation procedure

TP Test Purpose
TSS Test Suite Structure
V Valid stimulus

Page 10 ETS 300 403-6: January 1997

5 **Test Suite Structure (TSS)**

- Null call state N00
 - Valid
- · Outgoing call
- Incoming call point-to-point configuration
- Incoming call point-to-multipoint configuration
- Call rearrangement
- Inopportune
- Syntactically invalid
- Overlap Sending call state N02
 - Valid
 - Inopportune
 - · Syntactically invalid
- Outgoing Call Proceeding call state N03
 - Valid
 - Inopportune
 - · Syntactically invalid
- Call Delivered call state N04
 - Valid
 - Inopportune
 - · Syntactically invalid
- · Call Present call state N06
 - Valid
- Point-to-point configuration
- Point-to-multipoint configuration
- Inopportune
- Syntactically invalid DARD PREVIEW
 Call Received call state N07
- - Valid

Point-to-point configuration

- Point-to-multipoint configuration
- Inopportune <u>SIST ETS 300 403-6:1998</u>
- htepsSyntacticallyhinvalidog/standards/sist/effa4b60-b974-44a2-a5ae-
- Incoming Call Proceeding call state N09s-300-403-6-1998
 - Valid
- Point-to-point configuration
- Point-to-multipoint configuration
- Inopportune
- · Syntactically invalid
- Active call state N10 (Incoming call)
 - Valid
 - Inopportune
 - · Syntactically invalid
- Active call state N10 (Outgoing call)
 - Valid
 - Inopportune
 - · Syntactically invalid
- Disconnect Indication call state N12 (Incoming call)
 - Valid
 - Inopportune
 - · Syntactically invalid
- Disconnect Indication call state N12 (Outgoing call)
 - Valid
 - Inopportune
 - Syntactically invalid
- Release Request call state N19 (Incoming call)
 - Valid
 - Inopportune
 - · Syntactically invalid

Figure 1 (sheet 1 of 2): Test suite structure

Page 11 ETS 300 403-6: January 1997

- Release Request call state N19 (Outgoing call)
 - Valid
 - Inopportune
 - · Syntactically invalid
- Call Abort call state N22
- Overlap Receiving call state N25
 - Valid
- Point-to-point configuration
- Point-to-multipoint configuration
- Inopportune
- · Syntactically invalid
- Restart Null call state R00 (Incoming call)
 - Valid
 - Inopportune
 - · Syntactically invalid
- Restart Null call state R00 (Outgoing call)
 - Valid
 - Inopportune
 - · Syntactically invalid
- Restart Request call state R01
 - Valid
 - Inopportune
 - Syntactically invalid
- Message segmentation procedure
 - Valid
 - Inopportune
 - · Syntactically invalid

Teh Figure 1 (sheet 2 of 2): Test suite structure

6 Test Purposes (TP)standards.iteh.ai)

6.1 Introduction

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For each test requirement, a TP is 7defined: 4/sist-ets-300-403-6-1998

6.1.1 TP naming convention

TPs are numbered, starting at 001, within each group. Groups are organized according to the TSS. Additional references are added to identify the actual test suite and whether it applies to the network or the user (see table 1).

Table 1: TP identifier naming convention scheme

Identifier:	<lay< th=""><th colspan="3"><layer iut="">_<state>_<group>_<nnn></nnn></group></state></layer></th></lay<>	<layer iut="">_<state>_<group>_<nnn></nnn></group></state></layer>		
<layer iut=""></layer>	=	layer + type of IUT:	e.g. "L3N" for layer 3, IUT = network	
<state></state>	=	call state:	e.g. N10 for Active call state	
<group></group>	=	group:	one character field representing the group reference according to TSS V: Valid stimulus I: Inopportune stimulus S: Syntactically invalid stimulus	
<nnn></nnn>	=	sequential number:	(001-999)	

Page 12

ETS 300 403-6: January 1997

6.1.2 Source of TP definition

The TPs are based on ETS 300 403-1 [1] and ETS 300 403-2 [2].

6.1.3 TP structure

Each TP has been written in a manner which is consistent with all other TPs. The intention of this is to make the TPs more readable and checkable. A particular structure has been used which is illustrated in table 2. This table should be read in conjunction with any TP, i.e. please use a TP as an example to facilitate the full comprehension of table 2.

Table 2: Structure of a single TP

TP part	Text	Example			
Header	<ld><ld><ld><ld><ld></ld></ld></ld></ld></ld>	see table 1			
	<subclause 300="" 403-1="" base="" ets="" in="" number=""></subclause>	subclause 2.3.4			
Stimulus	Ensure that the IUT in the				
	<basic call="" state=""></basic>	N00, N10, etc.			
	<trigger> see below for message structure</trigger>	on receipt of a XXXX message			
		(see note 2)			
	or <goal></goal>	to request a			
Reaction	<action></action>	sends, saves, does, etc.			
	<conditions></conditions>	using en bloc sending, etc.			
	see below for message structure				
	<next action="">, etc.</next>				
	and remains in the same state				
	or and enters state < state >> 1 ANDARD PR	EVIEW			
Message	<pre><message type=""> message (standards.iteh.:</message></pre>	SETUP, FACILITY, CONNECT,			
structure		,			
	a) with a <info element=""></info>	Bearer capability, Facility, etc.			
	information element <u>SIST ETS 300 403-6:1998</u>				
	b) indicating in the ≤field name ≥ai/catalog/standards/sist/effa4bt 0-b974-44a2-a5ae-				
	<coding field="" of="" the=""> and back to a) or b) sist-ets-300-403-6-</coding>				
NOTE 1:	Text in italics will not appear in TPs and text between <> is filled in for each TP and may				
	differ from one TP to the next.				
NOTE 2:	9				
	test purpose.				

6.1.4 Test strategy

As the base standard ETS 300 403-1 [1] contains no explicit requirements for testing, the TPs were generated as a result of an analysis of the base standard and the PICS specification ETS 300 403-3 [3]. The criteria applied include the following:

- only the requirements from the point of view of the T or coincident S and T reference point are considered;
- whether or not a test case can be built from the TP is not considered.

6.1.5 Test of call states

Many TPs include a reference to the IUT's final call state after the realization of the TP. In these cases the TP includes the requirement to ensure that the IUT has entered this particular final call state. Ensuring that the IUT is in a particular call state shall be realized by following the procedures described in subclause 5.8.10 of ETS 300 403-1 [1]. According to these procedures, the IUT on receipt of a STATUS ENQUIRY message, shall respond with a STATUS message indicating, in the third octet of the Call state information element, the current call state of the IUT. This exchange of messages is not mentioned explicitly in each TP but is considered to be implicit in the reference to the final call state. This way of phrasing the TPs has been used to avoid over-complicating the text and structure of the TPs and to improve the readability.

Page 13

ETS 300 403-6: January 1997

6.1.6 Test of point-to-multipoint configurations

In subclauses 6.2.1, 6.2.5, 6.2.6, 6.2.7 and 6.2.15 (call states Null N00, Call Present N06, Call Received N07, Incoming Call Proceeding N09 and Overlap Receiving N25) a distinction is made between point-topoint and point-to-multipoint configurations. In the case of a point-to-multipoint configuration several terminals may be attached to one basic access interface. Each terminal will use a different Connection Endpoint Suffix (CES). To reflect this in the TPs the CES for which a message is received or sent (e.g. "... on receipt of an ALERTING message for CES1 ...") is named explicitly where this clarification is needed.

6.1.7 Test of inopportune and syntactically invalid behaviour

In the test groups for inopportune and syntactically invalid behaviour the procedures as described in subclause 5.8 of ETS 300 403-1 [1] are tested. This is done in each call state with one message for each of the described error cases. Messages have been chosen that are, if they are received without the inopportune or erroneous coding, expected messages in the call states under test.

Test purposes for inopportune behaviour that is described outside the subclause 5.8 of ETS 300 403-1 [1] are found in the valid test groups. This was done, as these procedures are seen more as a part of the basic call procedures than as a part of the error handling procedures.

6.2 TPs for the basic call control, layer 3, network

All PICS items referred to in this subclause are as specified in ETS 300 403-3 [3] unless indicated otherwise by another numbered reference.

6.2.1 **Null call state N00**

6.2.1.1 Valid Teh STANDARD PREVIEW

Outgoing calltandards.iteh.ai) 6.2.1.1.1

L3N N00 V 001 subclause 5.1.1

Ensure that the IUT in the Null call state N00, on receipt of a SETUP message during an all channels busy condition.

sends a RELEASE COMPLETE message with a Cause information element indicating the cause value 34 "no circuit/channel available" and remains in the Null call state N00.

L3N_N00_V_002 subclauses 5.1.2 a), 5.1.3

Ensure that the IUT in the Null call state N00, on receipt of a SETUP message without Called party number and Sending complete information element and with the Channel identification information element indicating a B-channel that is available and indicating in the preferred/exclusive bit "exclusive: only the indicated channel is acceptable",

sends SETUP ACKNOWLEDGE message with the Channel identification information element indicating the requested B-channel and indicating in the preferred/exclusive bit "exclusive: only the indicated channel is acceptable" and enters the Overlap Sending call state N02.

L3N N00 V 003 subclauses 5.1.2 a), 5.1.5.1

Ensure that the IUT in the Null call state N00, on receipt of a SETUP message with a Called party number information element providing the complete called party information, with a Sending complete information element and with the Channel identification information element indicating a B-channel that is available and indicating in the preferred/exclusive bit "exclusive: only the indicated channel is acceptable",

sends CALL PROCEEDING message with the Channel identification information element indicating the requested B-channel and indicating in the preferred/exclusive bit "exclusive: only the indicated channel is acceptable" and enters the Outgoing Call Proceeding call state N03.

L3N N00 V 004 subclause 5.1.2 a)

Ensure that the IUT in the Null call state N00, on receipt of a SETUP message with the Channel identification information element indicating a B-channel that is not available and indicating in the preferred/exclusive bit "exclusive: only the indicated channel is acceptable",

sends a RELEASE COMPLETE message with a Cause information element indicating the cause value 34 "no circuit/channel available" or 44 "requested circuit/channel not available" and remains in the Null call state.