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**Digitalno omrežje z integriranimi storitvami (ISDN) - Daljinski storitvi: telefonija 7 kHz in videotelefonija - Protokol digitalne naročniške signalizacije št. 1 (DSS1) - 5. del: Zgradba preskušalnega niza in namen preskušanja (TSS&TP) - Specifikacija za omrežje**

Integrated Services Digital Network (ISDN); Telephony 7 kHz and videotelephony teleservices; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 5: Test Suite Structure and Test Purposes (TSS&TP) specification for the network

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specification for the network**

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Cross references: Generic, telephony 7 kHz and videotelephony teleservices test purposes .....

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A.2 Telephony 7 kHz to videotelephony teleservices test purposes .....

History .....

## 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 5 of a multi-part standard covering the Digital Subscriber Signalling System No. one (DSS1) protocol specification for the Integrated Services Digital Network (ISDN) telephony 7 kHz and videotelephony teleservices, 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".

Transposition dates	
Date of adoption of this ETS:	20 March 1998
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## Introduction

This ETS is divided into six clauses. Clauses 1 to 3 form the scope, references and abbreviations. Clause 4 contains the test suite structure. Clause 5 contains the complete list of test purposes. Clause 6 contains the requirements for a generic or abstract test suite to comply with this ETS.

It is been assumed that the Implementation Under Test (IUT) already complies with the conformance requirements associated with the ISDN basic call as defined in ETS 300 102-1. This is specified as a requirement in ETS 300 267-2, clause 5. ETS 300 267-1, subclause 5.1, states that the additional generic requirements of clause 5 are defined to be compatible with the existing requirements of ETS 300 102-1.

In cases where ETS 300 267-1 specifies that requirements in ETS 300 102-1 shall apply, it is assumed that, because the IUT already complies with ETS 300 102-1, it also complies with these requirements. However, when specifying the abstract test cases, including test case selection, the requirements of ETS 300 102-1 need to be taken into account.

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## 1 Scope

This fifth part of ETS 300 267 is applicable to the stage three of the telephony 7 kHz and videotelephony teleservices for the pan-European Integrated Services Digital Network (ISDN) as provided by European public telecommunications operators at the T reference point or coincident S and T reference point (as specified in ITU-T Recommendation I.411 [8] by means of the Digital Subscriber Signalling System No. one (DSS1) protocol. ETS 300 267-1 [3] provides the protocol specification and ETS 300 267-2 [4] the Protocol Implementation Conformance Statement (PICS) proforma specification. Stage three identifies the protocol procedures and switching functions needed to support a telecommunications service (see CCITT Recommendation I.130 [7]).

This ETS specifies the Test Suite Structure and Test Purposes (TSS&TP) for the network side. It covers the protocol requirements as defined in ETS 300 267-1 [3] and provides test purposes for the additional generic requirements for basic telecommunication services not defined in ETS 300 102-1 [1] (ETS 300 267-1 [3], clause 5), for the telephony 7 kHz teleservice (ETS 300 267-1 [3], clause 6) and for the videotelephony teleservice (ETS 300 267-1 [3], clause 7).

Two types of implementation are covered:

- an implementation which supports network requirements at the coincident S and T reference point;
- an implementation which supports network requirements for interworking with private ISDNs at the T reference point.

## 2 Normative references

This ETS incorporates by dated or undated references, 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 300 102-1: "Integrated Services Digital Network (ISDN); User-network interface layer 3; Specifications for basic call control".  
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- [2] ETS 300 144: "Integrated Services Digital Network (ISDN); Audiovisual services; Frame structure for a 64 kbit/s to 1 920 kbit/s channel and associated syntax for inband signalling" (equivalent to ITU-T Recommendation H.221).
- [3] ETS 300 267-1 (1994) including A1 (1996): "Integrated Services Digital Network (ISDN); Telephony 7 kHz and videotelephony teleservices; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [4] ETS 300 267-2 (1996): "Integrated Services Digital Network (ISDN); Telephony 7 kHz and videotelephony teleservices; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".
- [5] I-ETS 300 316: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1); Protocol Implementation Conformance Statement (PICS) proforma specification for signalling network layer protocol for circuit-mode basic call control (basic access, network)".
- [6] CCITT Recommendation G.711 (1988): "Pulse code modulation (PCM) of voice frequencies".
- [7] CCITT Recommendation I.130 (1988): "Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN".
- [8] ITU-T Recommendation I.411 (1993): "ISDN user-network interfaces - Reference configurations".

- [9] ISO/IEC 9646-2: "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 2: Abstract test suite specification".
- [10] ISO/IEC 9646-3: "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 3: The Tree and Tabular Combined Notation".

### 3 Definitions and abbreviations

#### 3.1 Definitions

For the purposes of this ETS, the definitions in ETS 300 267-1 [3] apply in addition to the following definitions:

**BC1:** The first (lower priority) Bearer capability information element included in a SETUP message allowing bearer capability selection.

**BC2:** The second (higher priority) Bearer capability information element included in a SETUP message allowing bearer capability selection.

**BC=speech:** A Bearer capability information element with its information transfer capability field set to "speech" and its user information layer one protocol field set to "G.711 A-law".

**BC=UDI/TA:** A Bearer capability information element with its information transfer capability field set to "UDI/TA" and its user information layer one protocol field set to "Recommendations H.221 and H.242".

**BC=UDI:** A Bearer capability information element with its information transfer capability field set to "UDI" and its user information layer one protocol field set to "Recommendations H.221 and H.242".

**bit-rate allocation signal:** Bit position within the frame structure to transmit commands, control and indication signals, capabilities.

**HLC1:** The first (lower priority) High layer compatibility information element in a SETUP message allowing high layer compatibility selection.

**HLC2:** The second (higher priority) High layer compatibility information element in a SETUP message allowing high layer compatibility selection.

**HLC=telephony:** A High layer compatibility information element with its high layer characteristics identification field set to "telephony".

**HLC=videotelephony\_ic:** A High layer compatibility information element with its high layer characteristics identification field set to "110 0000 - videotelephony (Recommendation F.721)" and its extended audiovisual characteristics identification field set to "000 0001 - capability set of initial channel of Recommendation H.221".

**HLC=videotelephony\_nex:** A High layer compatibility information element with its high layer characteristics identification field set to "110 0000 - videotelephony (Recommendation F.721)" but not containing an extended audiovisual characteristics identification field.

**HLC=videotelephony\_sc:** A High layer compatibility information element with its high layer characteristics identification field set to "110 0000 - videotelephony (Recommendation F.721)" and its extended audiovisual characteristics identification field set to "000 0010 - capability set of subsequent channel of Recommendation H.221".

**Implementation Under Test (IUT):** The component of the system under test (user terminal or private ISDN) providing the protocol specified in ETS 300 267-1 [3] at the S/T or T reference point.

**in-band signalling:** Signalling via the bit-rate allocation signal of the frame structure, as defined in ETS 300 144 [2].

**mode 0F:** Transmission mode in which the initial channel contains framing, and 7-bit G.711 audio signal is being transmitted.

**mode 0U:** Transmission mode in which the initial channel does not contain framing, and 8-bit G.711 audio signal is being transmitted.

**PI=#1:** A Progress indicator information element, with its progress description field set to #1 "Call is not end-to-end ISDN".

**PI=#2:** A Progress indicator information element, with its progress description field set to #2 "Destination address is non-ISDN".

**PI=#3:** A Progress indicator information element, with its progress description field set to #3 "Origination address is non-ISDN".

**PI=#4:** A Progress indicator information element, with its progress description field set to #4 "Call has returned to the ISDN".

**PI=#5:** A Progress indicator information element, with its progress description field set to #5 "interworking has occurred and has resulted in a telecommunications service change".

**PI=#8:** A Progress indicator information element, with its progress description field set to #8 "In-band information or appropriate pattern now available".

**telephony 7 kHz fallback allowed SETUP message:** A SETUP message containing two BCs, with the first BC=speech and the second BC=UDI/TA, a HLC=telephony, and not containing a LLC.

**telephony 7 kHz fallback not allowed SETUP message:** A SETUP message containing a single BC=UDI/TA and a single HLC=telephony, and not containing a LLC.

**videotelephony fallback allowed SETUP message:** A SETUP message containing two BCs, with the first BC=speech and the second BC=UDI/TA, and two HLCs, with the first HLC=telephony and the second HLC=videotelephony\_ic, and not containing a LLC.

**videotelephony fallback not allowed SETUP message:** A SETUP message containing a single BC=UDI/TA and a single HLC=videotelephony\_ic, and not containing a LLC.

**videotelephony SETUP message for CR2 :** A SETUP message containing a single BC=UDI and a single HLC=videotelephony\_sc. The SETUP message is used to establish the second connection in a videotelephony call requiring two connections.

### 3.2 Abbreviations

For the purposes of this ETS, the abbreviations in ETS 300 267-1 [3] and ETS 300 267-2 [4] apply. In addition, the following abbreviations apply:

ATS	Abstract Test Suite
BC	Bearer Capability information element
CR1	Call Reference for the first call
CR2	Call Reference for the second call
HLC	High Layer Compatibility information element
IUT	Implementation Under Test
LLC	Low Layer Compatibility information element
PI	Progress Indicator information element
TP	Test Purpose
TSS	Test Suite Structure
UDI	Unrestricted Digital Information
UDI/TA	Unrestricted Digital Information with Tones/Announcements

## 4 Test Suite Structure (TSS)

The test suite is structured as a tree. Six test group levels are defined. The TSS is depicted in figure 1.

### 4.1 First test group level

The first test group level contains the name of the test suite:

NT7V Network side telephony 7 kHz, videotelephony teleservices and generic protocol.

### 4.2 Second test group level

The second test group level indicates whether the test purpose covers the originating interface or the destination interface:

ORIG Originating Interface;  
DEST Destination Interface.

### 4.3 Third test group level

The third test group level indicates whether the test purpose covers a requirement applicable to valid behaviour, to invalid behaviour or to inopportune behaviour:

BV Valid Behaviour test purpose;  
BI Invalid Behaviour test purpose;  
BO inOpportune Behaviour test purpose.

### 4.4 Fourth test group level

The fourth test group level indicates whether the test purpose covers a requirement applicable to the generic protocol, the telephony 7 kHz protocol, or the videotelephony teleservice protocol:

GEN Generic requirements. The test purpose covers a requirement applicable for the generic part of ETS 300 267-1 [3] (clause 5);

TL7 Telephony 7 kHz teleservice. The test purpose covers a requirement applicable for the telephony 7 kHz part of ETS 300 267-1 [3] (clause 6);

VTL Videotelephony teleservice. The test purpose covers a requirement applicable for the videotelephony part of ETS 300 267-1 [3] (clause 7).

The group for generic requirements does not appear in the TSS. None of the generic test purposes can be considered as testable.

### 4.5 Fifth test group level

The fifth test group level indicates which kind of functionality is tested and, more precisely, whether the test purposes covers requirements applicable to fallback allowed, fallback not allowed or connection management. Three groups are defined:

FBA FallBack Allowed: this group covers all tests where a fallback allowed SETUP message is sent to the IUT;

FBN FallBack Not allowed: this group covers all tests where a fallback not allowed SETUP message is sent to the IUT;

CMN Connection MaNagement: this group includes all other cases which do not test the response to or the sending of a fallback allowed or a fallback not allowed SETUP message. As a consequence, the clearing of a call and the establishment of a second connection for videotelephony is tested here.

4.6 Sixth test group level

The sixth test group level indicates the type of implementation to which the test purpose applies:

- ST An implementation which supports network requirements at the coincident S and T reference point;
- PT An implementation which supports network requirements for interworking with private ISDNs at the T reference point;
- ST\_T An implementation which supports network requirements at the coincident S and T reference point or network requirements for interworking with private ISDNs at the T reference point.

This level group does not appear when only one of them is included as subgroup.

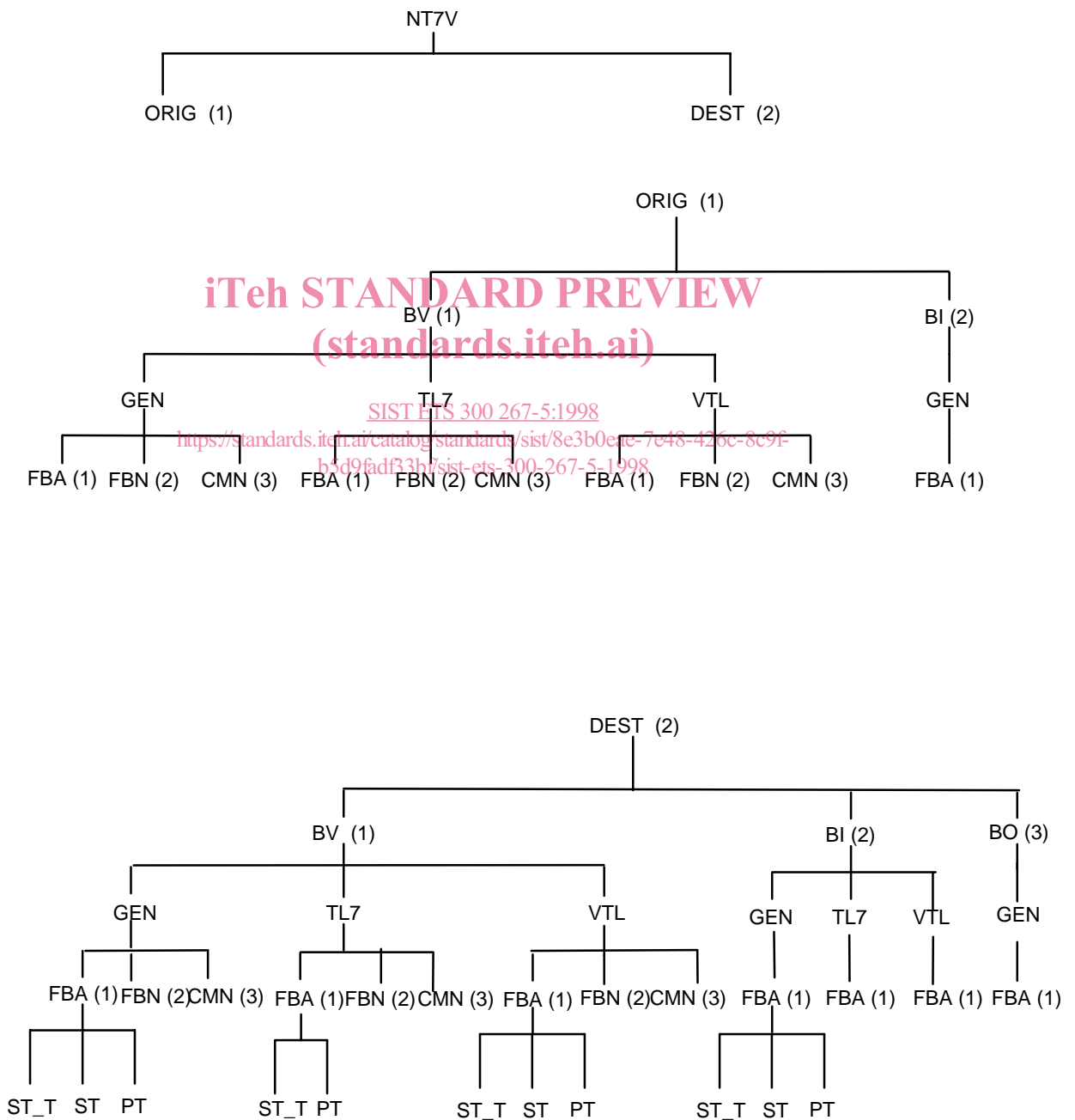


Figure 1: Test suite structure

## 5 Test Purposes (TP)

### 5.1 Test purpose format

The structure of a test purpose identifier is defined in table 1.

**Table 1: TP identifier naming convention scheme**

<requirement><nnn>_<nn>		
<requirement>	GTP TTP VTP	generic protocol requirement telephony 7 kHz requirement videotelephony requirement
<nnn>	1st digit 2nd digit 3rd digit	1 Originating Interface; 2 Destination Interface 1 Valid; 2 Invalid; 3 Inopportune 1 Fallback Allowed; 2 Fallback Not Allowed; 3 Connection Management
<nn>	2 digits	sequential test case number

The test purposes are formatted as tables to increase readability. The table format is shown in table 2. Text in **bold** shows the text which is always present, normal text provides an explanation for each field.

**Table 2: Structure of a single TP**

Test purpose identifier	<b>Reference to ETS 300 267-1 [3]:</b>	<b>Other relevant reference:</b>
<b>TSS reference</b>	The full test suite structure reference.	
<b>Selection criteria</b>	The criteria necessary in order to select the test. Unless otherwise specified, references are to ETS 300 267-2 [4].	
<b>Test purpose</b>	Description of the test purpose.	
<b>Cross reference</b>	GTP/TTP/VTP cross reference data.	
<b>Comments</b>	Any relevant comments.	

The "Other relevant reference" field, where applicable, contains a reference to a specification document containing the whole, or part, of the requirement to be tested by the test purpose.

The "Selection criteria" field consists of a Boolean expression incorporating items from ETS 300 267-2 [4] (in which case items are not prefixed by a reference number) and from I-ETS 300 316 [5].

Some of the telephony 7 kHz or videotelephony test purposes are directly related, but not identical, to generic ones. Where such a relationship exists, the reference to the related generic test purpose is specified in the "Cross reference" field of the telephony 7 kHz or videotelephony test purpose.

Unstable test purposes are listed using *italic* font. Test purposes for generic protocol requirements which correspond to no particular IUT have been considered as unstable.

## 5.2 Calling network interface

## 5.2.1 Valid behaviour

## 5.2.1.1 Generic requirements

## 5.2.1.1.1 Fallback allowed

<b>GTP111_01</b>	<b>Reference to ETS 300 267-1 [3]:</b> 5.5.1.1, 5.6.1	<b>Other relevant reference:</b>
<b>TSS reference</b>	NT7V/ORIG/BV/GEN/FBA	
<b>Selection criteria</b>	MC 3.1 OR MC 4.1	
<b>Test purpose</b>	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a SETUP message, containing two BCs, BC1 and BC2, and no LLC, is capable of sending a CONNECT message containing BC2.	
<b>Cross reference</b>		
<b>Comments</b>	Sending of CONNECT following receipt of a SETUP, fallback from BC2 to BC1 allowed; the two BCs are included in the SETUP message in ascending order of priority, i.e. BC2 appears subsequent to BC1: fallback did not occur either within the IUT or at the destination user.	

<b>GTP111_02</b>	<b>Reference to ETS 300 267-1 [3]:</b> 5.5.1.1, 5.6.1	<b>Other relevant reference:</b>
<b>TSS reference</b>	NT7V/ORIG/BV/GEN/FBA	
<b>Selection criteria</b>	MC 3.1 OR MC 4.1	
<b>Test purpose</b>	Verify that the IUT, in Call Delivered call state N4, having received a SETUP message, containing two BCs, BC1 and BC2, and no LLC, is capable of sending a CONNECT message containing BC2.	
<b>Cross reference</b>		
<b>Comments</b>	Sending of CONNECT following receipt of a SETUP, fallback from BC2 to BC1 allowed; the two BCs are included in the SETUP message in ascending order of priority, i.e. BC2 appears subsequent to BC1: fallback did not occur either within the IUT or at the destination user.	

<b>GTP111_03</b>	<b>Reference to ETS 300 267-1 [3]:</b> 5.5.1.1, 5.6.1	<b>Other relevant reference:</b>
<b>TSS reference</b>	NT7V/ORIG/BV/GEN/FBA	
<b>Selection criteria</b>	MC 3.1 OR MC 4.1	
<b>Test purpose</b>	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a SETUP message, containing two BCs, BC1 and BC2, and no LLC, is capable of sending a CONNECT message containing BC1.	
<b>Cross reference</b>		
<b>Comments</b>	Sending of CONNECT: fallback occurred, to BC1, at the destination user.	

<b>GTP111_04</b>	<b>Reference to ETS 300 267-1 [3]:</b> 5.5.1.1, 5.6.1	<b>Other relevant reference:</b>
<b>TSS reference</b>	NT7V/ORIG/BV/GEN/FBA	
<b>Selection criteria</b>	MC 3.1 OR MC 4.1	
<b>Test purpose</b>	Verify that the IUT, in Call Delivered call state N4, having received a SETUP message, containing two BCs, BC1 and BC2, and no LLC, is capable of sending a CONNECT message containing BC1.	
<b>Cross reference</b>		
<b>Comments</b>	Sending of CONNECT: fallback occurred, to BC1, at the destination user.	