



SLOVENSKI STANDARD
SIST EN 301 067-3 V1.1.3:2003
01-december-2003

ü]fc_cdUgcj bc`X][]HJbc`ca fYy`Y`n`]bhY[f]fUbj]a]`g]cf]hj Ua]`f6 !-G8 BŁĚ`Dfclc_c`
 X][]HJbY`bUfc b]ý_Y`g][bU]nUWY`Y`ýH`&f8 GG&ŁĚ`Df]_`1]hj YbY`nbU]bcgh]Ě
 Dc[U`Ub`Y`a YX`Z]hc`j ndcghUj` `Ub`U`_]WU#hj YnY`Ě` "XY. `N[fUXVUdfYg_i ýUby[U
 b]nU]b`bUa Yb]dfYg_i ýUb`U`fHGG` HDŁĚ`GdYW]Z_ UWY`U`nU`i dcfUVb]_U

Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Connection characteristics; Negotiation during call/connection establishment phase; Part 3: Test Suite Structure and Test Purposes (TSS&TP) specification for the user

(standards.iteh.ai)

<https://standards.iteh.ai/catalog/standards/sist/37b91f69-c354-4eb8-90ac-0487f7da5c41/sist-en-301-067-3-v1-1-3-2003>

Ta slovenski standard je istoveten z: EN 301 067-3 Version 1.1.3

ICS:

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

SIST EN 301 067-3 V1.1.3:2003 **en**

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 301 067-3 V1.1.3:2003

<https://standards.iteh.ai/catalog/standards/sist/37b91f69-c354-4eb8-90ac-0487f7da5c41/sist-en-301-067-3-v1-1-3-2003>

ETSI EN 301 067-3 V1.1.3 (1999-11)

European Standard (Telecommunications series)

**Broadband Integrated Services Digital Network (B-ISDN);
Digital Subscriber Signalling System No. two (DSS2) protocol;
Connection characteristics;
Negotiation during call/connection establishment phase;
Part 3: Test Suite Structure and Test Purposes (TSS&TP)
specification for the user**

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 301 067-3 V1.1.3:2003](https://standards.iteh.ai/catalog/standards/sist/37b91f69-c354-4eb8-90ac-0487f7da5c41/sist-en-301-067-3-v1-1-3-2003)

<https://standards.iteh.ai/catalog/standards/sist/37b91f69-c354-4eb8-90ac-0487f7da5c41/sist-en-301-067-3-v1-1-3-2003>



Reference

DEN/SPS-05151-3 (9vor0ie0.PDF)

Keywords

ATM, B-ISDN, broadband, DSS2, ISDN, layer 3,
TSS&TP, UNI, user

ETSI

Postal address

F-06921 Sophia Antipolis Cedex - FRANCE

Office address

650 Route des Lucioles - Sophia Antipolis
Valbonne - FRANCE

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

Siret N° 348 623 562 00017 - NAF 742 C

Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° 7803/88

<https://standards.etsi.org/standards-search/?query=EN+301+067-3+v1-1-3-2003>
0487f7da5c41/sist-en-301-067-3-v1-1-3-2003

Internet

secretariat@etsi.fr

Individual copies of this ETSI deliverable
can be downloaded from

<http://www.etsi.org>

If you find errors in the present document, send your
comment to: editor@etsi.fr

Important notice

This ETSI deliverable may be made available in more than one electronic version or in print. In any case of existing or perceived difference in contents between such versions, the reference version is the Portable Document Format (PDF). In case of dispute, the reference should be the printing on ETSI printers of the PDF version kept on a specific network drive within ETSI Secretariat.

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 1999.
All rights reserved.

Contents

| | |
|-------------------------------------------------------------------------------------------------|----|
| Intellectual Property Rights | 4 |
| Foreword..... | 4 |
| 1 Scope | 5 |
| 2 References | 5 |
| 3 Definitions and abbreviations | 6 |
| 3.1 Definitions | 6 |
| 3.1.1 Definitions related to conformance testing | 6 |
| 3.1.2 Definitions related to EN 301 067-1 | 6 |
| 3.2 Abbreviations | 7 |
| 4 Test Suite Structure (TSS) | 7 |
| 5 Test Purposes (TP) | 8 |
| 5.1 Introduction | 8 |
| 5.1.1 TP naming convention | 8 |
| 5.1.2 Source of TP definition | 8 |
| 5.1.3 Test strategy | 8 |
| 5.1.4 Test of call states | 8 |
| 5.2 TPs for the traffic parameters negotiation, user | 9 |
| 5.2.1 Signalling procedures at the coincident S_B/T_B and at the T_B reference points | 9 |
| 5.2.1.1 Negotiating the traffic parameters at the origination interface | 9 |
| 5.2.1.1.1 Negotiation request (01) | 9 |
| 5.2.1.1.2 Negotiation acceptance (02) | 9 |
| 5.2.1.2 Negotiating the traffic parameters at the destination interface | 10 |
| 5.2.1.2.1 Traffic parameter negotiation procedures (03) | 10 |
| 5.2.1.2.2 Negotiation confirmation (04) | 12 |
| 6 Compliance..... | 13 |
| 7 Requirements for a comprehensive testing service | 13 |
| History | 14 |

Intellectual Property Rights

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in SR 000 314: "*Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards*", which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (<http://www.etsi.org/ipr>).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Signalling Protocols and Switching (SPS).

The present document is part 3 of a multi-part standard covering the Digital Subscriber Signalling System No. 2 (DSS2) protocol specification for the B-ISDN connection negotiation during call/connection establishment phase, as identified below:

- Part 1: "Protocol specification [ITU-T Recommendation Q.2962 [8] (1996), modified]";
- 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 Implementations 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".

National transposition dates

| | |
|----------------------------------------------------------------------------------------|-----------------|
| Date of adoption of this EN: | 29 October 1999 |
| Date of latest announcement of this EN (doa): | 31 January 2000 |
| Date of latest publication of new National Standard or endorsement of this EN (dop/e): | 31 July 2000 |
| Date of withdrawal of any conflicting National Standard (dow): | 31 July 2000 |

1 Scope

This third part of EN 301 067 specifies the user Test Suite Structure and Test Purposes (TSS&TP) for the T_B reference point or coincident S_B and T_B reference point (as defined in ITU-T Recommendation I.413 [5]) of implementations conforming to the standards for the signalling user-network layer 3 specification for connection negotiation during call/connection establishment phase of the Digital Subscriber Signalling System No. two (DSS2) protocol for the pan-European Broadband Integrated Services Digital Network (B-ISDN), EN 301 067-1 [1].

A further part of the present document specifies the Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma based on the present document.

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, the latest version applies.
- A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.

- iTeh STANDARD PREVIEW**
(standards.iteh.ai)
- [1] EN 301 067-1 (V1.1): "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Connection characteristics; Negotiation during call/connection establishment phase - Part 1: Protocol specification [ITU-T Recommendation Q.2962 (1996), modified]".
<https://standards.iteh.ai/catalog/standards/sist/37b91f69-c354-4eb8-90ac-141170b01000/en-301-067-3-v1-1-3-2003>
- [2] EN 301 067-2 (V1.1): "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Connection characteristics; Negotiation during call/connection establishment phase - Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".
- [3] ISO/IEC 9646-1: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General Concepts".
- [4] ISO/IEC 9646-2: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 2: Abstract Test Suite specification".
- [5] ITU-T Recommendation I.413 (1993): "B-ISDN user-network interface".
- [6] ETS 300 406: "Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".
- [7] EN 300 443-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; B-ISDN user-network interface layer 3 specification for basic call/bearer control - Part 1: Protocol specification [ITU-T Recommendation Q.2931 (1995), modified]".
- [8] ITU-T Recommendation Q.2963.1: "Digital Subscriber Signalling System No. 2 - Connection modification: Peak cell rate modification by the connection owner".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in EN 301 067-1 [1] and EN 300 443-1 [7] and the following apply:

3.1.1 Definitions related to conformance testing

abstract test case: refer to ISO/IEC 9646-1 [3]

Abstract Test Method (ATM): refer to ISO/IEC 9646-1 [3]

Abstract Test Suite (ATS): refer to ISO/IEC 9646-1 [3]

Implementation Under Test (IUT): refer to ISO/IEC 9646-1 [3]

lower tester: refer to ISO/IEC 9646-1 [3]

Protocol Implementation Conformance Statement (PICS): refer to ISO/IEC 9646-1 [3]

PICS proforma: refer to ISO/IEC 9646-1 [3]

Protocol Implementation eXtra Information for Testing (PIXIT): refer to ISO/IEC 9646-1 [3]

PIXIT proforma: refer to ISO/IEC 9646-1 [3]

Test Purpose (TP): refer to ISO/IEC 9646-1 [3]

3.1.2 Definitions related to EN 301 067-1

user: DSS2 protocol entity at the User side of the user-network interface where a T_B reference point or coincident S_B and T_B reference point applies

user (S_B/T_B): DSS2 protocol entity at the User side of the user-network interface where a coincident S_B and T_B reference point applies

user (T_B): DSS2 protocol entity at the User side of the user-network interface where a T_B reference point applies (user is a private ISDN)

3.2 Abbreviations

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

| | |
|--------|-------------------------------------------------------|
| ATM | Abstract Test Method |
| ATS | Abstract Test Suite |
| B-ISDN | Broadband Integrated Services Digital Network |
| DSS2 | Digital Subscriber Signalling System No. two |
| IUT | Implementation Under Test |
| PICS | Protocol Implementation Conformance Statement |
| PIXIT | Protocol Implementation eXtra Information for Testing |
| TP | Test Purpose |
| TSS | Test Suite Structure |
| U0 | Null link state |
| U1 | Call Initiated link state |
| U10 | Active link state |
| U3 | Outgoing Call Proceeding link state |
| U4 | Call Delivered link state |
| U6 | Call Present link state |
| U7 | Call Received link state |
| U8 | Connect Request link state |
| U9 | Incoming Call Proceeding link state |
| VC | Virtual Channel |
| VP | Virtual Path |
| VPC | Virtual Path Connection |

iTeh STANDARD PREVIEW

4 Test Suite Structure (TSS) (Structure) (iTech.ai)

Signalling procedures at the coincident S_B/T_B and at the T_B reference points

| | |
|-----------------------------------------------------------------|------|
| Negotiating the traffic parameters at the origination interface | |
| Negotiation request..... | (01) |
| Negotiation acceptance..... | (02) |
| Negotiating the traffic parameters at the destination interface | |
| Traffic parameter negotiation procedures..... | (03) |
| Negotiation confirmation..... | (04) |

Figure 1: Test suite structure