



SLOVENSKI STANDARD
SIST EN 300 195-5 V1.3.3:2005

01-april-2005

8][]HJbc`ca fYÿY'n`]bhM[f]fUb]a]`glcf]hj Ua]`flG8 BŁ!`A YXgYVc `bc`j d`]j Ub`Y
Xcdc`b]bYglcf]hj Y!`Dfcfc_c`X][]HJbYbUfc b]y_Yg][bU]nUWY`Hr%fB GG%L!`)"
XY. N[fUXVUdfYg_i ýUbY[Ub]nU]b`bUa Yb]dfYg_i ýUb`UfHGG` HDŁ!`GdYWZ_UWYU
nUca fYÿY

Integrated Services Digital Network (ISDN); Supplementary service interactions; Digital Subscriber Signalling System No. one (DSS1) protocol, Part 5: Test Suite Structure and Test Purposes (TSS&TP) specification for the network

ITEH STANDARD REVIEW
(standards.iteh.ai)

[SIST EN 300 195-5 V1.3.3:2005](#)
<https://standards.iteh.ai/catalog/standards/sist/a7f21e2e-36e0-412c-b4ee-859ea40de4a6/sist-en-300-195-5-v1-3-3-2005>

Ta slovenski standard je istoveten z: **EN 300 195-5 Version 1.3.3**

ICS:

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

SIST EN 300 195-5 V1.3.3:2005 **en**

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN 300 195-5 V1.3.3:2005](#)

<https://standards.iteh.ai/catalog/standards/sist/a7f21e2e-36e0-412c-b4ee-859ea40de4a6/sist-en-300-195-5-v1-3-3-2005>

ETSI EN 300 195-5 V1.3.3 (2000-05)

European Standard (Telecommunications series)

**Integrated Services Digital Network (ISDN);
Supplementary service interactions;
Digital Subscriber Signalling System No. one (DSS1) protocol;
Part 5: Test Suite Structure and Test Purposes (TSS&TP)
specification for the network**

**iTeh STANDARD PREVIEW
(standards.iteh.ai)**

SIST EN 300 195-5 V1.3.3:2005

<https://standards.iteh.ai/catalog/standards/sist/a7f21e2e-36e0-412c-b4ee-859ea40de4a6/sist-en-300-195-5-v1-3-3-2005>



Reference

REN/SPS-05138-5

KeywordsDSS1, interaction, ISDN, network, supplementary
service, testing, TSS&TP***ETSI***

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - 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**iTeh STANDARD PREVIEW**
(standards.iteh.ai)

[SIST EN 300 195-5 V1.3.3:2005](#)
<https://standards.iteh.ai/catalog/standards/sist/a7f21e2e-36e0-412c-b4ee-859ea40de4a6/sist-en-300-195-5-v1-3-3-2005>

Important notice

Individual copies of the present document can be downloaded from:
<http://www.etsi.org>

The present document 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 shall be the printing on ETSI printers of the PDF version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status.
Information on the current status of this and other ETSI documents is available at <http://www.etsi.org/tb/status/>

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

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 2000.
All rights reserved.

Contents

Intellectual Property Rights.....	8
Foreword	8
1 Scope	9
2 References	9
3 Definitions.....	10
3.1 Definitions related to conformance testing	10
3.2 Definitions related to EN 300 195-1	10
4 Abbreviations	11
5 Test Suite Structure (TSS)	12
5.1 Two-level structure of the test suite.....	12
5.2 Level 1: interaction case (test purpose group)	12
5.3 Level 2: substructure of an interaction case (test purpose subgroup)	14
6 Test Purposes (TP)	14
6.1 Introduction	14
6.1.1 TP naming convention	14
6.1.2 Source of TP definition	15
6.1.3 TP structure.....	15
6.1.4 Test strategy.....	15
6.2 Network TPs for SSI Tech STANDARD PREVIEW (standards.iteh.ai)	16
6.2.1 Interaction between AOC-D and AOC-E.....	16
6.2.1.1 Test suite substructure	16
6.2.1.2 User initiates call clearing	16
6.2.1.3 Network initiates call clearing.....	16
6.2.2 Interaction between AOC and ECT https://standards.iteh.ai/catalog/standards/sisva7f21e2e-3660-412c-b4ee-839ca40de4ab/sist-en-300-195-5-v1-3-3-2005	17
6.2.2.1 Test suite substructure	17
6.2.2.2 AOC-D activated.....	17
6.2.2.3 AOC-E activated	17
6.2.2.3.1 Identification of charge invocation	17
6.2.2.3.2 Sending of charging information	18
6.2.3 Interaction between AOC and CCBS.....	19
6.2.3.1 Test suite substructure	19
6.2.3.2 Sending of charging information (S/T reference point).....	19
6.2.4 Interaction between AOC and CD	19
6.2.4.1 Test suite substructure	20
6.2.4.2 Delivery of charging information (S/T reference point).....	20
6.2.4.2.1 Identification of charge invocation	20
6.2.4.2.2 Sending of charging information	20
6.2.4.3 Delivery of charging information (T reference point)	21
6.2.4.3.1 Identification of charge invocation in CD request	21
6.2.4.3.2 Sending of charging information (CD provided by the network)	21
6.2.4.3.3 Identification of charge invocation in partial re-routeing request.....	22
6.2.4.3.4 Sending of charging information (partial re-routeing)	23
6.2.5 Interaction between AOC and CFB	23
6.2.5.1 Test suite substructure	24
6.2.5.2 Delivery of charging information (S/T reference point).....	24
6.2.5.3 Delivery of charging information (T reference point)	24
6.2.5.3.1 Sending of charging information (CFB provided by the network)	24
6.2.5.3.2 Identification of charge invoked in partial re-routeing request.....	25
6.2.5.3.3 Sending of charging information (partial re-routeing)	25
6.2.6 Interaction between AOC and CFNR.....	25
6.2.6.1 Test suite substructure	26
6.2.6.2 Delivery of charging information (S/T reference point).....	26

6.2.6.3	Delivery of charging information (T reference point)	26
6.2.6.3.1	Sending of charging information (CFNR provided by the network).....	26
6.2.6.3.2	Identification of charge invoked in partial re-routeing request.....	27
6.2.6.3.3	Sending of charging information (partial re-routeing)	28
6.2.7	Interaction between AOC and CFU	28
6.2.7.1	Test suite substructure	29
6.2.7.2	Delivery of charging information (S/T reference point).....	29
6.2.7.3	Delivery of charging information (T reference point)	29
6.2.7.3.1	Sending of charging information (CFU provided by the network)	29
6.2.7.3.2	Identification of charge invoked in partial re-routeing request.....	30
6.2.7.3.3	Sending of charging information (partial re-routeing)	30
6.2.8	Interaction between AOC and 3PTY	30
6.2.9	Interaction between AOC and CONF	31
6.2.9.1	Test suite substructure	31
6.2.9.2	Begin conference from N00	31
6.2.9.3	Begin conference from N10	32
6.2.9.4	Adding a remote user	33
6.2.9.5	Isolate a remote user.....	33
6.2.9.6	Reattach a remote user	33
6.2.9.7	Splitting a remote user.....	33
6.2.9.8	Disconnect a remote user	35
6.2.10	Interaction between AOC and TP	35
6.2.10.1	Test suite substructure	35
6.2.10.2	Suspending a call.....	35
6.2.10.3	Resuming a call	36
6.2.10.4	Unsuccessful attempt of resuming a call	36
6.2.11	Interaction between CONF and HOLD	36
6.2.11.1	Test suite substructure	37
6.2.11.2	Suppress notification to remote user.....	37
6.2.11.3	Identify remote user who sends a notification	37
6.2.12	Interaction between CONF and CUG supplementary service	37
6.2.12.1	Test suite substructure	38
6.2.12.2	Add party to the conference	38
6.2.13	Interaction between CONF and CONF	38
6.2.13.1	Test suite substructure	38
6.2.13.2	Re-invoking a conference within a conference.....	38
6.2.13.3	Adding a conference to a conference	39
6.2.13.4	Identify remote user who sends a notification	39
6.2.14	Interaction between CONF and TP	39
6.2.14.1	Test suite substructure	39
6.2.14.2	Served user of conference attempts suspend	39
6.2.14.3	Identify remote user who sends a notification to conference.....	39
6.2.15	Interaction between CONF and 3PTY	40
6.2.15.1	Test suite substructure	40
6.2.15.2	Invoking 3PTY when one of the two calls is a conference.....	40
6.2.15.3	Adding a 3PTY call to a conference	41
6.2.15.4	Invoking the CONF service for a call in 3-way conversation.....	41
6.2.15.5	Identify remote user who sends a notification to conference.....	41
6.2.16	Interaction between CONF and UUS service 3	41
6.2.16.1	Test suite substructure	42
6.2.16.2	CONF controlling user sends UUS3 info to single party	42
6.2.16.3	CONF controlling user broadcasts UUS3 info	42
6.2.16.4	CONF remote user sends UUS3 info	42
6.2.16.5	UUS3 flow control	42
6.2.17	Interaction between CONF and ECT	43
6.2.17.1	Test suite substructure	43
6.2.17.2	CONF controlling user invokes ECT	43
6.2.17.3	CONF remote user uses ECT	44
6.2.18	Interaction between CD and COLP.....	44
6.2.19	Interaction between CD and COLR	44

6.2.20	Interaction between CD and UUS.....	44
6.2.20.1	Test suite substructure	44
6.2.20.2	Deflection before alerting (S/T reference point)	44
6.2.20.3	Deflection after alerting (S/T reference point)	47
6.2.20.3.1	UUS1 implicit.....	47
6.2.20.3.2	UUS1 explicit.....	47
6.2.20.3.3	UUS2.....	49
6.2.20.3.4	UUS3.....	49
6.2.20.4	Partial re-routeing (T reference point).....	50
6.2.21	Interaction between CFB and COLP.....	52
6.2.22	Interaction between CFB and COLR	52
6.2.23	Interaction between CFB and UUS.....	52
6.2.23.1	Test suite substructure	53
6.2.23.2	Forwarding of UUS supplementary service information (S/T reference point).....	53
6.2.23.3	Forwarding of UUS by public ISDN (T reference point).....	53
6.2.23.4	Partial re-routeing (T reference point).....	53
6.2.24	Interaction between CFNR and COLP.....	55
6.2.25	Interaction between CFNR and COLR	55
6.2.26	Interaction between CFNR and UUS	55
6.2.26.1	Test suite substructure	56
6.2.26.2	Implicit UUS1 request (S/T reference point)	56
6.2.26.3	Explicit UUS1 request (S/T reference point)	56
6.2.26.4	UUS2 request (S/T reference point).....	57
6.2.26.5	UUS3 request (S/T reference point).....	58
6.2.26.6	Forwarding by public ISDN (T reference point)	58
6.2.26.7	Partial re-routeing (T reference point).....	59
6.2.27	Interaction between CFU and COLP	61
6.2.28	Interaction between CFU and COLR	61
6.2.29	Interaction between CFU and UUS.....	61
6.2.29.1	Test suite substructure	61
6.2.29.2	Forwarding of UUS supplementary service information (S/T reference point).....	61
6.2.29.3	Forwarding of UUS by public ISDN (T reference point).....	61
6.2.29.4	Partial re-routeing (T reference point).....	62
6.2.30	Interaction between TP and 3PTY	64
6.2.30.1	Test suite substructure	64
6.2.30.2	Served user of 3PTY invokes TP	64
6.2.31	Interaction between HOLD and TP	64
6.2.31.1	Test suite substructure	64
6.2.31.2	Served user of HOLD invokes TP	65
6.2.32	Interaction between HOLD and 3PTY	65
6.2.32.1	Test suite substructure	65
6.2.32.2	Holding a 3PTY call	65
6.2.32.3	Retrieving a 3PTY call.....	65
6.2.33	Interaction between CUG and 3PTY	66
6.2.33.1	Test suite substructure	66
6.2.33.2	Requesting 3PTY across different CUG	66
6.2.34	Interaction between ECT and MCID	66
6.2.34.1	Test suite substructure	66
6.2.34.2	Requesting MCID after ECT	66
6.2.35	Interaction between ECT and 3PTY	67
6.2.35.1	Test suite substructure	67
6.2.35.2	Transfer of a 3-way conversation	67
6.2.36	Interaction between ECT and UUS.....	67
6.2.37	Interaction between CCBS and UUS	68
6.2.37.1	Test suite substructure	68
6.2.37.2	Requesting UUS in a CCBS call request.....	68
6.2.38	Interaction between CCBS and CLIP	69
6.2.38.1	Test suite substructure	69
6.2.38.2	Delivering calling line identity to private ISDN.....	69
6.2.39	Interaction between CCBS and CLIR	69

6.2.39.1	Test suite substructure	69
6.2.39.2	Terminating T reference point.....	70
6.2.40	Interaction between CCBS and CUG.....	70
6.2.40.1	Test suite substructure.....	70
6.2.40.2	Redefining the CUG requirement (S/T reference point)	70
6.2.41	Interaction between CCBS and MSN	71
6.2.41.1	Test suite substructure.....	71
6.2.41.2	Calling user identity in FACILITY messages to user A.....	71
6.2.42	Interaction between CCBS and SUB	72
6.2.43	Interaction between FPH and COLP.....	72
6.2.44	Interaction between ECT and CUG	72
6.2.44.1	Test suite substructure.....	72
6.2.44.2	Requesting ECT across different CUG	72
6.2.45	Interaction between ECT and TP.....	73
6.2.46	Interaction between CONF and MCID	73
6.2.46.1	Test suite substructure.....	73
6.2.46.2	Requesting MCID after CONF.....	73
6.2.47	Interaction between CCBS and CW.....	73
6.2.47.1	Test suite substructure.....	73
6.2.47.2	Offering a CCBS call as a waiting call.....	74
6.2.48	Interaction between UUS and TP	74
6.2.48.1	Test suite substructure	74
6.2.48.2	Suspending a call when UUS3 is activated	74
6.2.49	Interaction between MWI and MSN.....	74
6.2.49.1	Test suite substructure	75
6.2.49.2	Receiving user.....	75
6.2.49.3	Controlling user.....	75
6.2.50	Interaction between OCB and CCBS	76
6.2.50.1	Test suite substructure	76
6.2.50.2	Originating S/T and T reference point	76
6.2.50.3	Originating S/T reference point.....	77
6.2.50.4	Originating T reference point.....	78
6.2.51	Interaction between OCB and MSN.....	78
6.2.51.1	Test suite substructure	78
6.2.51.2	Originating S/T reference point.....	78
6.2.52	Interaction between OCB and CFB	79
6.2.52.1	Test suite substructure	79
6.2.52.2	Originating S/T or T reference point.....	80
6.2.52.3	Originating T reference point.....	80
6.2.53	Interaction between OCB and CFNR.....	80
6.2.53.1	Test suite substructure	80
6.2.53.2	Originating S/T and T reference point	80
6.2.53.3	Originating T reference point.....	81
6.2.54	Interaction between OCB and CFU	81
6.2.54.1	Test suite substructure	81
6.2.54.2	Originating S/T or T reference point.....	81
6.2.54.3	Originating T reference point.....	81
6.2.55	Interaction between OCB and CD	81
6.2.55.1	Test suite substructure	82
6.2.55.2	Originating S/T or T reference point.....	82
6.2.55.3	Originating T reference point.....	82
6.2.56	Interaction between OCB- UC and OCB-F.....	82
6.2.57	Interaction between CCNR and AOC	82
6.2.57.1	Test suite substructure	83
6.2.57.2	Sending of charging information (S/T reference point).....	83
6.2.58	Interaction between CCNR and CW	83
6.2.58.1	Test suite substructure	83
6.2.58.2	Sending of charging information (S/T reference point).....	83
6.2.59	Interaction between CCNR and CLIP	84
6.2.59.1	Test suite substructure	84

6.2.59.2	Delivering calling line identity to private ISDN.....	84
6.2.60	Interaction between CCNR and CLIR	84
6.2.60.1	Test suite substructure	84
6.2.60.2	Delivering calling line identity to private ISDN.....	85
6.2.61	Interaction between CCNR and CUG	85
6.2.61.1	Test suite substructure	85
6.2.61.2	Redefining the CUG requirement (S/T reference point)	85
6.2.62	Interaction between CCNR and CCBS	86
6.2.62.1	Test suite substructure	86
6.2.62.2	Sending of charging information (S/T reference point) - Network A side	86
6.2.63	Interaction between CCNR and MSN.....	87
6.2.63.1	Test suite substructure	87
6.2.63.2	Sending of charging information (S/T reference point) - Network A side	87
6.2.64	Interaction between CCNR and SUB.....	89
6.2.65	Interaction between CCNR and UUS	89
6.2.65.1	Test suite substructure	89
6.2.65.2	Requesting UUS in a CCNR call request	90
6.2.66	Interaction between CCNR and OCB	90
6.2.66.1	Test suite substructure	91
6.2.66.2	Originating S/T and T reference point	91
6.2.66.3	Originating S/T reference point.....	92
6.2.66.4	Originating T reference point.....	92
6.2.67	Interaction between OCB and SCF.....	93
6.2.67.1	Test suite substructure	93
6.2.67.2	Request selective call forwarding to a barred address.....	93
6.2.68	Interaction between CW and CFNR/CD	94
6.2.68.1	Test suite substructure	94
6.2.68.2	Offering a CFNR/CD call as a waiting call - calling network side	94
7	Compliance	95
8	Requirements for a comprehensive ETSI testing service 5 V1.3.3:2005	95
Bibliography	https://standards.iteh.ai/catalog/standards/sist/a7f21e2e-36e0-412c-b4ee-839ca40de4a0/sist-en-300-195-5-v1-3-3-2005	96
History		97

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 Services and Protocols for Advanced Networks (SPAN).

The present document is part 5 of a multi-part EN covering the Integrated Services Digital Network (ISDN); Supplementary service interactions; Digital Subscriber Signalling System No. one (DSS1) protocol, as identified 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 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 for the network side".

National transposition dates	
Date of adoption of this EN:	28 April 2000
Date of latest announcement of this EN (doa):	31 July 2000
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 January 2001
Date of withdrawal of any conflicting National Standard (dow):	31 January 2001

1 Scope

The present document specifies the Test Suite Structure and Test Purposes (TSS&TP) for the Network side of the T reference point or coincident S and T reference point (as defined in ITU-T Recommendation I.411 [14]) of implementations conforming to the stage three standard for the Supplementary service interactions for the pan-European Integrated Services Digital Network (ISDN) by means of the Digital Subscriber Signalling System No. one (DSS1) protocol, EN 300 195-1 [3].

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. 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 EN 300 195-1 [3].

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] ETSI 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]".
SIST EN 300 195-5 V1.3.3:2005
859ea40de4a6/sist-en-300-195-5-v1-3-3-2005
- [2] EN 300 182-2 (V1.2): "Integrated Services Digital Network (ISDN); Advice of Charge (AOC) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".
- [3] ETSI EN 300 195-1 (V1.4): "Integrated Services Digital Network (ISDN); Supplementary service interactions; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [4] ETSI EN 300 195-2 (V1.3): "Integrated Services Digital Network (ISDN); Supplementary service interactions; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".
- [5] ETSI EN 300 196-1 (V1.2): "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".
- [6] ETSI EN 300 207-1 (V1.2): "Integrated Services Digital Network (ISDN); Diversion supplementary services; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [7] ETSI EN 300 207-5: "Integrated Services Digital Network (ISDN); Diversion supplementary services; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 5: Test Suite Structure and Test Purposes (TSS&TP) specification for the network".
- [8] ISO/IEC 9646-1: "Information technology - OSI Conformance Testing Methodology and Framework; Part 1: General Concepts".
- [9] ISO/IEC 9646-2: "Information technology - OSI Conformance Testing Methodology and Framework; Part 2: Abstract Test Suite specification".

- [10] ISO/IEC 9646-3: "Information technology - OSI Conformance Testing Methodology and Framework; Part 3: The Tree and Tabular Combined Notation".
- [11] ITU-T Recommendation E.164 (1997): "The international public telecommunication numbering plan".
- [12] ITU-T Recommendation I.112 (1993): "Vocabulary and terms for ISDNs".
- [13] ITU-T Recommendation I.210 (1993): "Principles of the telecommunication services supported by an ISDN and the means to describe them".
- [14] ITU-T Recommendation I.411 (1993): "ISDN user-network interfaces - Reference configurations".
- [15] ETSI ETS 300 406 (1995): "Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology"

3 Definitions

For the purposes of the present document, the following terms and definitions apply:

3.1 Definitions related to conformance testing

abstract test case: refer to ISO/IEC 9646-1 [8].

Abstract Test Suite (ATS): refer to ISO/IEC 9646-1 [8].
THE STANDARD PREVIEW

active test: 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 [8].
*SIST EN 300 195-5 V1.3.3:2005
https://standards.iteh.ai/catalog/standards/sist/a7f21e2e-36e0-412c-b4ee-8594c40da16/sist-en-300-195-5-v1-3-3-2005*

implicit send event: refer to ISO/IEC 9646-3 [10].

lower tester: refer to ISO/IEC 9646-1 [8].

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

point of control and observation: refer to ISO/IEC 9646-1 [8].

Protocol Implementation Conformance Statement (PICS): refer to ISO/IEC 9646-1 [8].

PICS proforma: refer to ISO/IEC 9646-1 [8].

Protocol Implementation eXtra Information for Testing (PIXIT): refer to ISO/IEC 9646-1 [8].

PIXIT proforma: refer to ISO/IEC 9646-1 [8].

system under test: refer to ISO/IEC 9646-1 [8].

Test Purpose (TP): refer to ISO/IEC 9646-1 [8].

3.2 Definitions related to EN 300 195-1

call held auxiliary state: see EN 300 196-1 [5], subclause 7.1.2.

call reference: see EN 300 403-1 [1], subclause 4.3.

component: see EN 300 196-1 [5], subclause 11.2.2.1.

idle auxiliary state: see EN 300 196-1 [5], subclause 7.1.2.

Integrated Services Digital Network (ISDN): see ITU-T Recommendation I.112 [12], definition 308.

ISDN number: number conforming to the numbering and structure specified in CCITT Recommendation E.164 [11].

invoke component: see EN 300 196-1 [5], subclause 11.2.2.1.

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

network (T): DSS1 protocol entity at the Network side of the user-network interface where a T reference point applies (Network connected to Private ISDN).

return error component: see EN 300 196-1 [5], subclause 11.2.2.1.

return result component: see EN 300 196-1 [5], subclause 11.2.2.1.

served user: served user is the user who invokes the supplementary service.

service; telecommunication service: see ITU-T Recommendation I.112 [12], definition 201.

supplementary service: see ITU-T Recommendation I.210 [13], subclause 2.4.

4 Abbreviations STANDARD PREVIEW (standards.iteh.ai)

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

3PTY	Three-Party	SIST EN 300 195-5 V1.3.3:2005
AOC	Advice of Charge	https://standards.iteh.ai/catalog/standards/sist/a7f21e2e-36e0-412c-b4ee-839a852a835a/sist-en-300-195-5-v1-3-3-2005
AOC-D	Advice of Charge During the call	SIST EN 300-195-5-v1-3-3-2005
AOC-E	Advice of Charge at the End of the call	
AOC-S	Advice of Charge at call Set-up time	
CCBS	Completion of Calls to Busy Subscriber	
CCNR	Completion of Calls on No Reply	
CCRef	Call Reference for call related to the conference	
CD	Call Deflection	
CFB	Call Forwarding Busy	
CFNR	Call Forwarding on No Reply	
CFU	Call Forwarding Unconditional	
CLIP	Calling Line Identification Presentation	
CLIR	Calling Line Identification Restriction	
COLP	Connected Line Identification Presentation	
COLR	Connected Line Identification Restriction	
CONF	Conference call, add-on	
CUG	Closed User Group	
CW	Call Waiting	
DDI	Direct Dialling In	
ECT	Explicit Call Transfer	
FPH	Freephone	
HOLD	Call Hold	
MCID	Malicious Call Identification	
MSN	Multiple Subscriber Number	
MWI	Message Waiting Indication	
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
N09	Incoming Call Proceeding call state
N10	Active call state
N11	Disconnect Request call state
N12	Disconnect Indication call state
N19	Release Request call state
N25	Overlap Receiving call state
N31	Bearer Independent Transport call state
OCB	Outgoing Call Barring
OCB-F	Outgoing Call Barring: Fixed
OCB-UC	Outgoing Call Barring: User Controlled
SCF	Selective Call Forwarding
SCRef	Call Reference for a private call (not related to the conference)
SSI	Supplementary Service Interactions
SUB	Subaddressing
TP	Terminal Portability
TP	Test Purpose
TSS	Test Suite Structure
UUS	User-to-User Signalling
UUS1/2/3	UUS service 1/2/3

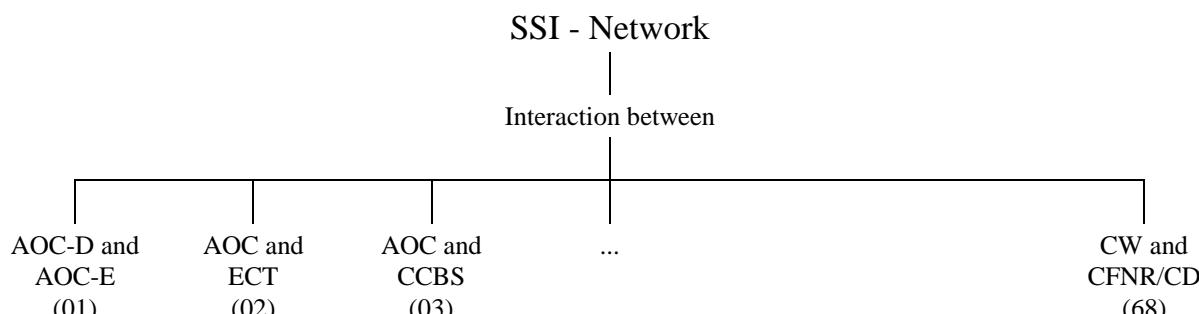
5 Test Suite Structure (TSS) iTeh STANDARD PREVIEW

5.1 Two-level structure (of the test suite)

The supplementary service interaction protocol is structured in two levels. The first level corresponds to a specific case of interaction between two supplementary services. The second level corresponds to the way in which a specific case is substructured. This two-level structure is reflected in the present document.

5.2 Level 1: interaction case (test purpose group)

The interaction cases correspond to subclauses 5.1 to 5.68 of EN 300 195-1 [3]. They are depicted in figure 1 and in table 1.



NOTE: Numbers in brackets represent group numbers and are used in TP identifiers.

Figure 1: Test suite structure - level 1

Table 1: Group numbers - level 1

Group	Interaction between
01	the AOC-D and AOC-E supplementary services
02	the AOC and ECT supplementary services
03	the AOC and CCBS supplementary services
04	the AOC and CD supplementary services
05	the AOC and CFB supplementary services
06	the AOC and CFNR supplementary services
07	the AOC and CFU supplementary services
08	the AOC and 3PTY supplementary services
09	the AOC and CONF supplementary services
10	the AOC and TP supplementary services
11	the CONF and HOLD supplementary services
12	the CONF and CUG supplementary service
13	the CONF and CONF supplementary services
14	the CONF and TP supplementary services
15	the CONF and 3PTY supplementary services
16	the CONF and UUS3 supplementary services
17	the CONF and ECT supplementary services
18	the CD and COLP supplementary services
19	the CD and COLR supplementary services
20	the CD and UUS supplementary services
21	the CFB and COLP supplementary services
22	the CFB and COLR supplementary services
23	the CFB and UUS supplementary services
24	the CFNR and COLP supplementary services
25	the CFNR and COLR supplementary services
26	the CFNR and UUS supplementary services
27	the CFU and COLP supplementary services
28	the CFU and COLR supplementary services
29	the CFU and UUS supplementary services
30	the TP and 3PTY supplementary services
31	the HOLD and TP supplementary services
32	the HOLD and 3PTY supplementary services
33	the CUG and 3PTY supplementary services
34	the ECT and MCID supplementary services
35	the ECT and 3PTY supplementary services
36	the ECT and UUS supplementary services
37	the CCBS and UUS supplementary services
38	the CCBS and CLIP supplementary services
39	the CCBS and CLIR supplementary services
40	the CCBS and CUG supplementary services
41	the CCBS and MSN supplementary services
42	the CCBS and SUB supplementary services
43	the FPH and COLP supplementary services
44	the ECT and CUG supplementary services
45	the ECT and TP supplementary services
46	the CONF and MCID supplementary services
47	the CCBS and CW supplementary services
48	the UUS and TP supplementary services
49	the MWI and MSN supplementary services
50	the OCB and CCBS supplementary services
51	the OCB and MSN supplementary services
52	the OCB and CFB supplementary services
53	the OCB and CFNR supplementary services
54	the OCB and CFU supplementary services
55	the OCB and CD supplementary services
56	the OCB-UC and OCB-F supplementary services
57	the CCNR and AOC supplementary services
58	the CCNR and CW supplementary services
59	the CCNR and CLIP supplementary services
60	the CCNR and CLIR supplementary services
61	the CCNR and CUG supplementary services
62	the CCNR and CCBS supplementary services