SLOVENSKI STANDARD
SIST EN 300 195-1 V1.4.3:2003

01-december-2003

Digitalno omrežje z integriranimi storitvami (ISDN) - Protokol digitalne naročniške signalizacije št. 1 (DSS1) - Medsebojno vplivanje dopolnilnih storitev - 1. del: Specifikacija protokola

Integrated Services Digital Network (ISDN); Supplementary service interactions; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN 300 195-1 V1.4.3:2003
https://standards.iteh.ai/catalog/standards/sist/aff6b9c82-7872-4fde-ab9b-97c0c50352ea/sist-en-300-195-1-v1-4-3-2003

Ta slovenski standard je istoveten z: **EN 300 195-1 Version 1.4.3**

ICS:

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

SIST EN 300 195-1 V1.4.3:2003 **en**

2003-01.Slovenski inštitut za standardizacijo. Razmnoževanje celote ali delov tega standarda ni dovoljeno.

SIST EN 300 195-1 V1.4.3:2003

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 300 195-1 V1.4.3:2003
https://standards.iteh.ai/catalog/standards/sist/af6b9c82-7872-4fde-ab9b-97c6c56332ca/sist-en-300-195-1-v1-4-3-2003

SIST EN 300 195-1 V1.4.3:2003

EN 300 195-1 V1.4.3 (1998-10)

European Standard (Telecommunications series)

Integrated Services Digital Network (ISDN); Supplementary service interactions; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN 300 195-1 V1.4.3:2003
https://standards.iteh.ai/catalog/standards/sist/af6b9c82-7872-4fde-ab9b-97c6c56332ca/sist-en-300-195-1-v1-4-3-2003

SIST EN 300 195-1 V1.4.3:2003

Reference
REN/SPS-05138-1 (1t090je0.PDF)

Keywords
ISDN, DSS1, supplementary service, interaction

ETSI

Postal address
F-06921 Sophia Antipolis Cedex - FRANCE

iTeh STANDARD PREVIEW
(standards.iteh.ai)

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

SIST EN 300 195-1 V1.4.3:2003
https://standards.iteh.ai/catalog/standards/sist/af6b9c82-7872-4fde-ab9b-97c6e563...

Internet
secretariat@etsi.fr
http://www.etsi.org

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 1998.
All rights reserved.

SIST EN 300 195-1 V1.4.3:2003

Contents

Intellectual Property Rights 11

Foreword 11

1 Scope 12

2 Normative references 13

3 Definitions 15

4 Abbreviations 17

5 Description of supplementary service interactions 18
5.1 The AOC-D and AOC-E supplementary services 19
5.2 The AOC and ECT supplementary services 19
5.2.1 Coding requirements 19
5.2.2 Signalling procedures at the coincident S and T reference point 20
5.2.2.1 Delivery of charging information to the transferring user 20
5.2.2.1.1 Normal procedures 20
5.2.2.1.2 Exceptional procedures 21
5.2.3 Procedures for interworking with private ISDNs 21
5.3 The AOC and CCBS supplementary services 21
5.3.1 Coding requirements 21
5.3.2 Signalling procedures at the coincident S and T reference point 21
5.3.2.1 Requesting an AOC supplementary service 21
5.3.2.1.1 Normal operation 21
5.3.2.1.2 Exceptional procedures 21
5.3.2.2 Delivery of charging information to the user 21
5.3.2.2.1 Normal operation 21
5.3.2.2.2 Exceptional procedures 21
5.3.3 Procedures for interworking with private ISDNs 22
5.3.3.1 Requesting an AOC supplementary service by the private network 22
5.3.3.1.1 Normal operation 22
5.3.3.1.2 Exceptional procedures 22
5.3.3.2 Delivery of charging information to the private network 22
5.3.3.2.1 Normal operation 22
5.3.3.2.2 Exceptional procedures 22
5.4 The AOC and CD supplementary services 22
5.4.1 Coding requirements 22
5.4.2 Signalling procedures at the coincident S and T reference point 22
5.4.2.1 Delivery of charging information to the deflecting user 23
5.4.2.1.1 Normal operation 23
5.4.2.1.2 Exceptional procedures 23
5.4.3 Procedures for interworking with private ISDNs 23
5.4.3.1 Delivery of charging information to the private network when the CD supplementary service is provided to the private ISDN 23
5.4.3.2 Delivery of charging information to the private network when partial rerouteing applies 24
5.4.3.2.1 Normal operation 24
5.4.3.2.2 Exceptional procedures 24
5.5 The AOC and CFB supplementary services 25
5.5.1 Coding requirements 25
5.5.2 Signalling procedures at the coincident S and T reference point 25
5.5.2.1 Delivery of charging information to the forwarding user 25
5.5.2.1.1 Normal operation 25
5.5.2.1.2 Exceptional procedures 25
5.5.3 Procedures for interworking with private ISDNs 25
5.5.3.1 Delivery of charging information to the private network when the CFB supplementary service is provided to the private ISDN 26
5.5.3.2 Delivery of charging information to the private network when partial rerouteing applies 26

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN 300 195-1 V1.4.3:2003
https://standards.iteh.ai/catalog/standards/sist/af6b9c82-7872-4fde-ab9b-

SIST EN 300 195-1 V1.4.3:2003

5.6 The AOC and CFNR supplementary services 26
5.7 The AOC and CFU supplementary services 26
5.8 The AOC and 3PTY supplementary services 26
5.8.1 Coding requirements 26
5.8.2 Signalling procedures at the coincident S and T reference point 26
5.8.2.1 Normal operation 26
5.8.2.2 Exceptional procedures 26
5.8.3 Procedures for interworking with private ISDNs 26
5.9 The AOC and CONF supplementary services 27
5.9.1 Coding requirements 27
5.9.2 Signalling procedures at the coincident S and T reference point 27
5.9.2.1 Normal operation 27
5.9.2.2 Exceptional procedures 27
5.9.3 Procedures for interworking with private ISDNs 27
5.10 The AOC and TP supplementary services 28
5.10.1 Coding requirements 28
5.10.2 Signalling procedures at the coincident S and T reference point 28
5.10.2.1 In the call suspension phase 28
5.10.2.1.1 Normal operation 28
5.10.2.1.2 Exceptional procedures 28
5.10.2.2 In the call resume phase 29
5.10.2.2.1 Normal operation 29
5.10.2.2.2 Exceptional procedures 29
5.10.3 Procedures for interworking with private ISDNs 29
5.11 The CONF and HOLD supplementary services 30
5.11.1 Coding requirements 30
5.11.2 Signalling procedures at the coincident S and T reference point 30
5.11.2.1 Invocation of the HOLD supplementary service by the served user of the CONF supplementary service 30
5.11.2.1.1 Normal operation 30
5.11.2.1.2 Exceptional procedures 30
5.11.2.2 Invocation of the HOLD supplementary service by the remote user of the CONF supplementary service 31
5.11.2.2.1 Normal operation 31
5.11.2.2.2 Exceptional procedures 31
5.11.3 Procedures for interworking with private ISDNs 31
5.12 The CONF and CUG supplementary service 31
5.12.1 Coding requirements 31
5.12.2 Signalling procedures at the coincident S and T reference point 31
5.12.2.1 Adding a call 31
5.12.2.1.1 Normal operation 31
5.12.2.1.2 Exceptional procedures 31
5.12.3 Procedures for interworking with private ISDNs 31
5.13 The CONF and CONF supplementary services 32
5.13.1 Coding requirements 32
5.13.2 Signalling procedures at the coincident S and T reference point 32
5.13.2.1 Re-invoking the CONF supplementary service 32
5.13.2.1.1 Normal operation 32
5.13.2.1.2 Exceptional procedures 32
5.13.2.2 Adding a conference call to a conference 32
5.13.2.2.1 Normal operation 32
5.13.2.2.2 Exceptional procedures 32
5.13.2.3 Notification of the served user 32
5.13.2.3.1 Normal procedures 32
5.13.2.3.2 Exceptional procedures 32
5.13.3 Procedures for interworking with private ISDNs 32
5.14 The CONF and TP supplementary services 33
5.14.1 Coding requirements 33
5.14.2 Signalling procedures at the coincident S and T reference point 33
5.14.2.1 Served user of CONF supplementary service uses TP supplementary service 33

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN 300 195-1 V1.4.3:2003
https://standards.iteh.ai/catalog/standards/sist/da09c682-7872-4dde-ab9b-97c6e56332ca/sist-en-300-195-1-v1.4.3-2003

SIST EN 300 195-1 V1.4.3:2003

5.14.2.1.1 Normal operation 33
5.14.2.1.2 Exceptional procedures 33
5.14.2.2 Remote user of CONF supplementary service uses TP supplementary service 33
5.14.2.2.1 Normal operation 33
5.14.2.2.2 Exceptional procedures 33
5.14.2.3 Remote user of the TP supplementary service uses the CONF supplementary service 33
5.14.2.3.1 Normal operation 33
5.14.2.3.2 Exceptional procedures 33
5.15 The CONF and 3PTY supplementary services 34
5.15.1 Coding requirements 34
5.15.2 Signalling procedures at the coincident S and T reference point 34
5.15.2.1 Requesting a three-way conversation where one of the connections belongs to a conference call 34
5.15.2.1.1 Normal operation 34
5.15.2.1.2 Exceptional procedures 34
5.15.2.2 Adding a three-way conversation to a conference 34
5.15.2.2.1 Normal operation 34
5.15.2.2.2 Exceptional procedures 34
5.15.2.3 Invocation of the CONF supplementary service for a connection in a three-way conversation 34
5.15.2.3.1 Normal operation 34
5.15.2.3.2 Exceptional procedures 34
5.15.2.4 Remote user uses the 3PTY supplementary service 35
5.15.2.4.1 Normal operation 35
5.15.2.4.2 Exceptional procedures 35
5.15.3 Procedures for interworking with private ISDNs 35
5.16 The CONF and UUS service 3 supplementary services 35
5.16.1 Coding requirements 35
5.16.2 Signalling procedures at the coincident S and T reference point 35
5.16.2.1 Service 3 activation 35
5.16.2.1.1 Normal operation 35
5.16.2.1.2 Exceptional procedures 36
5.16.2.2 Transfer of user information 36
5.16.2.2.1 Normal operation 36
5.16.2.2.2 Exceptional procedures 36
5.16.2.3 Flow control 36
5.16.2.3.1 Normal operation 36
5.16.2.3.2 Exceptional procedures 36
5.16.3 Procedures for interworking with private ISDNs 36
5.17 The CONF and ECT supplementary services 37
5.17.1 Coding requirements 37
5.17.2 Signalling procedures at the coincident S and T reference point 37
5.17.2.1 Served user uses the ECT supplementary service 37
5.17.2.1.1 Normal operation 37
5.17.2.1.2 Exceptional procedures 37
5.17.2.2 Remote user uses the ECT supplementary service 37
5.17.2.2.1 Normal operation 37
5.17.2.2.2 Exceptional procedures 38
5.17.3 Procedures for interworking with private ISDNs 38
5.18 The CD and COLP supplementary services 38
5.18.1 Coding requirements 38
5.18.2 Signalling procedures at the coincident S and T reference point 38
5.18.2.1 Normal operation 38
5.18.2.2 Exceptional procedures 38
5.18.3 Procedures for interworking with private ISDNs 38
5.19 The CD and COLR supplementary services 38
5.20 The CD and UUS supplementary services 39
5.20.1 Coding requirements 39
5.20.2 Signalling procedures at the coincident S and T reference point 39
5.20.2.1 Procedures at the served user when deflection takes place before alerting 39
5.20.2.1.1 Normal operation 39
5.20.2.1.2 Exceptional procedures 39

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN 300 195-1 V1.4.3:2003
https://standards.iteh.ai/catalog/standards/sist/af6b9c82-7872-4fde-ab9b-97c0e96332ca/sist-en-300-195-1-v1.4.3-2003

SIST EN 300 195-1 V1.4.3:2003

5.20.2.2 Procedures at the served user when deflection takes place after alerting ... 39
5.20.2.2.1 Service 1 implicitly requested ... 39
5.20.2.2.2 Service 1 explicitly requested ... 40
5.20.2.2.3 Service 2 ... 41
5.20.2.2.4 Service 3 ... 41
5.20.3 Procedures for interworking with private ISDNs ... 42
5.20.3.1 Procedures where the CD supplementary service applies to the whole private ISDN ... 42
5.20.3.2 Procedures where partial rerouteing takes place ... 42
5.21 The CFB and COLP supplementary services ... 42
5.22 The CFB and COLR supplementary services ... 42
5.23 The CFB and UUS supplementary services ... 42
5.23.1 Coding requirements ... 42
5.23.2 Signalling procedures at the coincident S and T reference point ... 43
5.23.2.1 Normal operation ... 43
5.23.2.2 Exceptional procedures ... 43
5.23.3 Procedures for interworking with private ISDNs ... 43
5.23.3.1 Procedures where the CFB supplementary service applies to the whole private ISDN ... 43
5.23.3.2 Procedures where partial rerouteing takes place ... 43
5.23.3.2.1 Normal operation ... 43
5.23.3.2.2 Exceptional procedures ... 44
5.24 The CFNR and COLP supplementary services ... 44
5.25 The CFNR and COLR supplementary services ... 44
5.26 The CFNR and UUS supplementary services ... 45
5.26.1 Coding requirements ... 45
5.26.2 Signalling procedures at the coincident S and T reference point ... 45
5.26.2.1 Service 1 implicitly requested ... 45
5.26.2.1.1 Normal operation ... 45
5.26.2.1.2 Exceptional procedures ... 45
5.26.2.2 Service 1 explicitly requested ... 45
5.26.2.2.1 Normal operation ... 45
5.26.2.2.2 Exceptional procedures ... 46
5.26.2.3 Service 2 ... 46
5.26.2.3.1 Normal operation ... 46
5.26.2.3.2 Exceptional procedures ... 46
5.26.2.4 Service 3 ... 46
5.26.2.4.1 Normal operation ... 46
5.26.2.4.2 Exceptional procedures ... 47
5.26.3 Procedures for interworking with private ISDNs ... 47
5.26.3.1 Procedures where the CFNR supplementary services applies to the whole private ISDN ... 47
5.26.3.2 Procedures where partial rerouteing takes place ... 47
5.27 The CFU and COLP supplementary services ... 47
5.28 The CFU and COLR supplementary services ... 47
5.29 The CFU and UUS supplementary services ... 47
5.29.1 Coding requirements ... 47
5.29.2 Signalling procedures at the coincident S and T reference point ... 47
5.29.2.1 Normal operation ... 47
5.29.2.2 Exceptional procedures ... 48
5.29.3 Procedures for interworking with private ISDNs ... 48
5.29.3.1 Procedures where the CFU supplementary service applies to the whole private ISDN ... 48
5.29.3.2 Procedures where partial rerouteing takes place ... 48
5.30 The TP and 3PTY supplementary services ... 48
5.30.1 Coding requirements ... 48
5.30.2 Signalling procedures at the coincident S and T reference point ... 48
5.30.2.1 Served user uses the TP supplementary service ... 48
5.30.2.1.1 Normal operation ... 48
5.30.2.1.2 Exceptional procedures ... 48
5.30.2.2 Remote user of the TP supplementary service uses the 3PTY supplementary service ... 49
5.30.2.2.1 Normal operation ... 49
5.30.2.2.2 Exceptional procedures ... 49
5.30.3 Procedures for interworking with private ISDNs ... 49

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN 300 195-1 V1.4.3:2003
https://standards.iteh.ai/catalog/standards/sist/af0b9c82-7872-4fde-ab9b-97c6e56332ca/sist-en-300-195-1-v1.4.3-2003

SIST EN 300 195-1 V1.4.3:2003

5.31 The HOLD and TP supplementary services 49
5.31.1 Coding requirements 49
5.31.2 Signalling procedures at the coincident S and T reference point 49
5.31.2.1 Served user of the HOLD supplementary service uses the TP supplementary service 49
5.31.2.1.1 Normal operation 49
5.31.2.1.2 Exceptional procedures 49
5.31.2.2 Remote user of the HOLD supplementary service uses the TP supplementary service 49
5.31.2.3 Remote user of the TP supplementary service uses the HOLD supplementary service 49
5.31.2.3.1 Normal operation 49
5.31.2.3.2 Exceptional procedures 50
5.31.3 Procedures for interworking with private ISDNs 50
5.32 The HOLD and 3PTY supplementary services 50
5.32.1 Coding requirements 50
5.32.2 Signalling procedures at the coincident S and T reference point 50
5.32.2.1 Creating a three-way conversation from a held call 50
5.32.2.2 Holding a three-way conversation 50
5.32.2.3 Retrieving a three-way conversation 50
5.32.3 Procedures for interworking with private ISDNs 50
5.33 The CUG and 3PTY supplementary services 51
5.33.1 Coding requirements 51
5.33.2 Signalling procedures at the coincident S and T reference point 51
5.33.2.1 Creating a three-way conversation 51
5.33.2.1.1 Normal operation 51
5.33.2.1.2 Exceptional procedures 51
5.33.3 Procedures for interworking with private ISDNs 51
5.34 The ECT and MCID supplementary services 51
5.34.1 Coding requirements 51
5.34.2 Signalling procedures at the coincident S and T reference point 51
5.34.2.1 Normal operation 51
5.34.2.2 Exceptional procedures 51
5.35 The ECT and 3PTY supplementary services 52
5.35.1 Coding requirements 52
5.35.2 Signalling procedures at the coincident S and T reference point 52
5.35.2.1 Transfer of a three-way conversation 52
5.35.2.1.1 Normal operation 52
5.35.2.1.2 Exceptional procedures 52
5.35.3 Procedures for interworking with private ISDNs 52
5.36 The ECT and UUS supplementary services 52
5.37 The CCBS and UUS supplementary services 53
5.37.1 Coding requirements 53
5.37.2 Signalling procedures at the coincident S and T reference point 53
5.37.2.1 Normal operation 53
5.37.2.2 Exceptional procedures 53
5.37.3 Procedures for interworking with private ISDNs 53
5.38 The CCBS and CLIP supplementary services 53
5.38.1 Coding requirements 53
5.38.2 Signalling procedures at the coincident S and T reference point 53
5.38.2.1 Normal operation 53
5.38.2.2 Exceptional procedures 53
5.38.3 Procedures for interworking with private ISDNs 54
5.38.3.1 Procedures for the originating T reference point 54
5.38.3.1.1 Normal operation 54
5.38.3.1.2 Exceptional procedures 54
5.38.3.2 Procedures for the destination T reference point 54
5.38.3.2.1 Normal operation 54
5.38.3.2.2 Exceptional procedures 54
5.39 The CCBS and CLIR supplementary services 54
5.39.1 Coding requirements 54
5.39.2 Signalling procedures at the coincident S and T reference point 54
5.39.2.1 Normal operation 54

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN 300 195-1 V1.4.3:2003
https://standards.iteh.ai/catalog/standards/sist/a8b09c82-7872-4fde-ab9b-976dc56b52eb/sist-en-300-195-1-v1.4.3-2003

SIST EN 300 195-1 V1.4.3:2003

5.39.2.2 Exceptional procedures 54
5.39.3 Procedures for interworking with private ISDNs 55
5.39.3.1 Procedures for the originating T reference point 55
5.39.3.1.1 Normal operation 55
5.39.3.1.2 Exceptional procedures 55
5.39.3.2 Procedures for the destination T reference point 55
5.39.3.2.1 Normal operation 55
5.39.3.2.2 Exceptional procedures 55
5.40 The CCBS and CUG supplementary services 56
5.40.1 Coding requirements 56
5.40.2 Signalling procedures at the coincident S and T reference point 56
5.40.2.1 Normal operation 56
5.40.2.2 Exceptional procedures 56
5.40.3 Procedures for interworking with private ISDNs 56
5.40.3.1 Procedure for the originating T reference point 56
5.40.3.1.1 Normal operation 56
5.40.3.1.2 Exceptional procedures 56
5.40.3.2 Procedures for the destination T reference point 56
5.41 The CCBS and MSN supplementary services 57
5.41.1 Coding requirements 57
5.41.2 Signalling procedures at the coincident S and T reference point 57
5.41.2.1 Procedures for the originating network 57
5.41.2.1.1 Normal operation 57
5.41.2.1.2 Exceptional procedures 57
5.41.2.2 Procedures for the remote network 57
5.41.2.2.1 Normal operation 57
5.41.2.2.2 Exceptional procedures 57
5.41.3 Procedures for interworking with private ISDNs 57
5.42 The CCBS and SUB supplementary services 58
5.42.1 Coding requirements 58
5.42.2 Signalling procedures at the coincident S and T reference point 58
5.42.2.1 Normal operation 58
5.42.2.2 Exceptional procedures 58
5.42.3 Procedures for interworking with private ISDNs 58
5.43 The FPH and COLP supplementary services 58
5.43.1 Coding requirements 58
5.43.2 Signalling procedures at the coincident S and T reference point 58
5.43.2.1 Procedure at the called user's network 58
5.43.2.1.1 Normal operation 58
5.43.2.1.2 Exceptional procedures 58
5.43.3 Procedures for interworking with private ISDNs 58
5.44 The ECT and CUG supplementary services 59
5.44.1 Coding requirements 59
5.44.2 Signalling procedures at the coincident S and T reference point 59
5.44.2.1 Invocation of the ECT supplementary service 59
5.44.2.1.1 Normal operation 59
5.44.2.1.2 Exceptional procedures 59
5.44.3 Procedures for interworking with private ISDNs 59
5.45 The ECT and TP supplementary services 59
5.45.1 Coding requirements 59
5.45.2 Signalling procedures at the coincident S and T reference point 59
5.45.2.1 Remote user of the TP supplementary service uses the ECT supplementary service 59
5.45.2.1.1 Normal operation 59
5.45.2.1.2 Exceptional procedures 59
5.45.3 Procedures for interworking with private ISDNs 60
5.46 The CONF and MCID supplementary services 60
5.46.1 Coding requirements 60
5.46.2 Signalling procedures at the coincident S and T reference point 60
5.46.2.1 Normal operation 60
5.46.2.2 Exceptional procedures 60

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN 300 195-1 V1.4.3:2003
https://standards.iteh.ai/catalog/standards/sist/a8b09c82-7872-4fde-ab9b-976ec56332ca/sist-en-300-195-1-v1-4-3-2003

SIST EN 300 195-1 V1.4.3:2003

5.46.3 Procedures for interworking with private ISDNs 60
5.47 The CCBS and CW supplementary services 60
5.47.1 Coding requirements 60
5.47.2 Signalling procedures at the coincident S and T reference point 60
5.47.2.1 Normal operation 60
5.47.2.2 Exceptional procedures 60
5.47.3 Procedures for interworking with private ISDNs 60
5.48 The UUS and TP supplementary services 61
5.48.1 Coding requirements 61
5.48.2 Signalling procedures at the coincident S and T reference point 61
5.48.2.1 Normal operation 61
5.48.2.2 Exceptional procedures 61
5.48.3 Procedures for interworking with private ISDNs 61
5.49 The MWI and MSN supplementary services 61
5.49.1 Coding requirements 61
5.49.2 Signalling procedures at the coincident S and T reference point 61
5.49.2.1 Normal operation 61
5.49.2.2 Exceptional procedures 61
5.49.3 Procedures for interworking with private ISDNs 62
5.50 The OCB and CCBS supplementary services 62
5.50.1 Coding requirements 62
5.50.2 Procedures at the coincident S and T reference point 62
5.50.2.1 Normal operation 62
5.50.2.2 Exceptional procedures 62
5.50.3 Procedures for interworking with privateISDNs 62
5.50.3.1 Normal operation 62
5.50.3.2 Exceptional procedures 62
5.51 The OCB and MSN supplementary services 63
5.51.1 Coding requirements 63
5.51.2 Procedures at the coincident S and T reference point 63
5.51.2.1 Normal operation 63
5.51.2.2 Exceptional procedures 63
5.51.3 Procedures for interworking with privateISDNs 63
5.52 The OCB and CFB supplementary services 63
5.52.1 Coding requirements 63
5.52.2 Procedures at the coincident S and T reference point 63
5.52.2.1 Normal operation 63
5.52.2.2 Exceptional procedures 63
5.52.3 Procedures for interworking with privateISDNs 63
5.52.3.1 Procedures when the CFB supplementary service applies to the whole private ISDN 63
5.52.3.2 Procedures where partial rerouteing takes place 64
5.53 The OCB and CFNR supplementary services 64
5.54 The OCB and CFU supplementary services 64
5.55 Call deflection 64
5.55.1 Coding requirements 64
5.55.2 Procedures at the coincident S and T reference point 64
5.55.2.1 Normal operation 64
5.55.2.2 Exceptional procedures 64
5.55.3 Procedures for interworking with privateISDNs 64
5.55.3.1 Procedures when the CD supplementary service applies to the whole private ISDN 64
5.55.3.2 Procedures where partial rerouteing takes place 64
5.56 The OCB-UC and the OCB-F supplementary services 65
5.57 The CCNR and AOC supplementary services 65
5.58 The CCNR and CW supplementary services 65
5.59 The CCNR and CLIP supplementary services 66
5.59.1 Coding requirements 66
5.59.2 Signalling procedures at the coincident S and T reference point 66
5.59.3 Procedures for interworking with private ISDNs 66
5.59.3.1 Procedures for the originating T reference point 66
5.59.3.1.1 Normal operation 66

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN 300 195-1 V1.4.3:2003
https://standards.iteh.ai/catalog/standards/sist/af0b9c82-7872-4fde-ab9b-976dc9b5e2ca/sist-en-300-195-1-v1.4.3-2003

SIST EN 300 195-1 V1.4.3:2003

5.59.3.1.2 Exceptional procedures 66
5.59.3.2 Procedures for the destination T reference point 66
5.59.3.2.1 Normal operation 66
5.59.3.2.2 Exceptional procedures 66
5.60 The CCNR and CLIR supplementary services 66
5.60.1 Coding requirements 66
5.60.2 Signalling procedures at the coincident S and T reference point 66
5.60.3 Procedures for interworking with private ISDNs 67
5.60.3.1 Procedures for the originating T reference point 67
5.60.3.1.1 Normal operation 67
5.60.3.1.2 Exceptional procedures 67
5.60.3.2 Procedures for the destination T reference point 67
5.60.3.2.1 Normal operation 67
5.60.3.2.2 Exceptional procedures 67
5.61 The CCNR and CUG supplementary services 68
5.62 The CCNR and CCBS supplementary services 68
5.62.1 Coding requirements 68
5.62.2 Signalling procedures at the coincident S and T reference point 68
5.62.2.1 Normal operation 68
5.62.2.2 Exceptional procedures 68
5.62.3 Procedures for interworking with private ISDNs 69
5.62.3.1 Normal operation 69
5.62.3.2 Exceptional procedures 69
5.63 The CCNR and MSN supplementary services 69
5.63.1 Coding requirements 69
5.63.2 Signalling procedures at the coincident S and T reference point 69
5.63.2.1 Normal operation 69
5.63.2.2 Exceptional procedures 69
5.63.3 Procedures for the remote network 70
5.63.3.1 Normal operation 70
5.63.3.2 Exceptional procedures 70
5.63.4 Procedures for interworking with private ISDNs 70
5.64 The CCNR and SUB supplementary services 70
5.65 The CCNR and UUS supplementary services 70
5.66 The CCNR and OCB supplementary services 70
5.67 The OCB and SCF supplementary services 70
5.67.1 Coding requirements 70
5.67.2 Procedures at the coincident S and T reference point 70
5.67.2.1 Normal operation 70
5.67.2.2 Exceptional procedures 70
5.67.3 Procedures for interworking with private networks 70

6 General procedures 71
6.1 Identification of charge 71
6.1.1 Normal operation 71
6.1.2 Exceptional procedures 71
6.2 Ordering of checks 71

Annex A (informative): Signalling flows 72

Annex B (informative): Example of the interaction between the AOC-E and CONF supplementary services 75

History 77

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN 300 195-1 V1.4.3:2003
https://standards.iteh.ai/catalog/standards/sist/a8b9e82-7872-4fde-ab9b-9766e5e352ca/sist-en-300-195-1-v1.4.3-2003

SIST EN 300 195-1 V1.4.3:2003

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 **free of charge** from the ETSI Secretariat. Latest updates are available on the ETSI Web server (http://www.etsi.fr/ipr or 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), and is now submitted for the Voting phase of the ETSI standards Two-step Approval Procedure.

The present document is part 1 of a multi-part standard covering the Digital Subscriber Signalling System No. one (DSS1) protocol interactions of supplementary services within the pan-European Integrated Services Digital Network (ISDN), 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: "Test Suite Structure and Test Purposes (TSS&TP) for the network";

Part 6: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the network".

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN 300 195-1 V1.4.3:2003
https://standards.iteh.ai/catalog/standards/sist/af6b9c82-7872-4fde-ab9b-97e0e5635ea/sist-en-300-195-1-v1.4.3-2003

The present document is an extended and updated version of ETS 300 195-1 (1995) to cover the additional supplementary services Message Waiting Indication (MWI), Outgoing Call Barring (OCB), Completion of Calls on No Reply (CCNR) and Selective Call Forwarding (SCF).

Proposed national transposition dates	
Date of latest announcement of this EN (doa):	3 months after ETSI publication
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	6 months after doa
Date of withdrawal of any conflicting National Standard (dow):	6 months after doa

SIST EN 300 195-1 V1.4.3:2003

1 Scope

This first part of EN 300 195 specifies the stage three of the supplementary service interactions 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 defined in ITU-T Recommendation I.411 [32]) by means of the Digital Subscriber Signalling System No. one (DSS1) protocol. Stage three identifies the protocol procedures and switching functions needed to support a telecommunication service (see CCITT Recommendation I.130 [29]).

The present document specifies the interactions between the Advice of Charge (AOC), Completion of Calls to Busy Subscriber (CCBS), Completion of Calls on No Reply (CCNR), Call Deflection (CD), Call Forwarding Busy (CFB), Call Forwarding No Reply (CFNR), Call Forwarding Unconditional (CFU), Calling Line Identification Presentation (CLIP), Calling Line Identification Restriction (CLIR), Connected Line Identification Presentation (COLP), Connected Line Identification Restriction (COLR), Conference call, add-on (CONF), Explicit Call Transfer (ECT), Closed User Group (CUG), Call Waiting (CW), Direct Dialling In (DDI), Freephone (FPH), Call Hold (HOLD), Malicious Call Identification (MCID), Multiple Subscriber Number (MSN), Message Waiting Indication (MWI), Outgoing Call Barring (OCB), Selective Call Forwarding (SCF), Subaddressing (SUB), Terminal Portability (TP), User-to-User Signalling (UUS) and Three-Party (3PTY) supplementary services.

In addition, the present document specifies the protocol requirements at the T reference point where the supplementary services are provided to the user via a private ISDN.

The present document does not specify the additional protocol requirements where the supplementary services are provided to the user via a telecommunications network that is not an ISDN.

The protocol for individual supplementary services is specified in other ETSs/ENs:

AOC:	ETS 300 182-1 [13];
CCBS:	ETS 300 359-1 [20];
CCNR:	EN 301 065-1 [26];
Diversion:	EN 300 207-1 [17];
CLIP:	ETS 300 092-1 [6];
CLIR:	ETS 300 093-1 [7];
COLP:	ETS 300 097-1 [8];
COLR:	ETS 300 098-1 [9];
CONF:	ETS 300 185-1 [14];
ECT:	ETS 300 369-1 [21];
CUG:	ETS 300 138-1 [11];
CW:	ETS 300 058-1 [3];
DDI:	ETS 300 064-1 [5];
FPH:	ETS 300 210-1 [18];
HOLD:	ETS 300 141-1 [12];
MCID:	ETS 300 130-1 [10];
MSN:	ETS 300 052-1 [1];
MWI:	ETS 300 745-1 [24];
OCB	EN 301 001-1 [25];
SUB:	ETS 300 061-1 [4];
TP:	ETS 300 055-1 [2];
UUS:	ETS 300 286-1 [19];
3PTY:	ETS 300 188-1 [15].

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN 300 195-1 V1.4.3:2003
https://standards.iteh.ai/catalog/standards/sist/af6b9c82-7872-4fde-ab9b-97c6c56332ca/sist-en-300-195-1-v1-4-3-2003

When two or more supplementary services are implemented, the protocol interactions are defined in the present document. These interactions are applicable to the telecommunication services as specified for the individual supplementary services.

The present document is applicable to equipment supporting supplementary services, to be attached at either side of the T reference point or coincident S and T reference point when used as an access to the public ISDN.

Further parts of the present document specify the method of testing required to identify conformance to the present document.

SIST EN 300 195-1 V1.4.3:2003

2 Normative references

References may be made to:

a) specific versions of publications (identified by date of publication, edition number, version number, etc.), in which case, subsequent revisions to the referenced document do not apply; or

b) all versions up to and including the identified version (identified by "up to and including" before the version identity); or

c) all versions subsequent to and including the identified version (identified by "onwards" following the version identity); or

d) publications without mention of a specific version, in which case 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.

[1] ETS 300 052-1 (1991): "Integrated Services Digital Network (ISDN); Multiple Subscriber Number (MSN) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

[2] ETS 300 055-1 (1991): "Integrated Services Digital Network (ISDN); Terminal Portability (TP) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

[3] ETS 300 058-1 (1991): "Integrated Services Digital Network (ISDN); Call Waiting (CW) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[4] ETS 300 061-1 (1991): "Integrated Services Digital Network (ISDN); Subaddressing (SUB) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

SIST EN 300 195-1 V1.4.3:2003
https://standards.iteh.ai/catalog/standards/sist/af6b9c82-7872-4fde-ab9b-97e6e56332ca/sist-en-300-195-1-v1-4-3-2003

[5] ETS 300 064-1 (1991): "Integrated Services Digital Network (ISDN); Direct Dialling In (DDI) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

[6] ETS 300 092-1 (1992) including amendment A2 (1994): "Integrated Services Digital Network (ISDN); Calling Line Identification Presentation (CLIP) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

[7] ETS 300 093-1 (1992): "Integrated Services Digital Network (ISDN); Calling Line Identification Restriction (CLIR) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

[8] ETS 300 097-1 (1992) including amendment A1 (1994): "Integrated Services Digital Network (ISDN); Connected Line Identification Presentation (COLP) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

[9] ETS 300 098-1 (1992): "Integrated Services Digital Network (ISDN); Connected Line Identification Restriction (COLR) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

[10] ETS 300 130-1 (1992): "Integrated Services Digital Network (ISDN); Malicious Call Identification (MCID) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

[11] ETS 300 138-1 (1992) including amendment A1 (1996): "Integrated Services Digital Network (ISDN); Closed User Group (CUG) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".