



DRAFT pr ETS 300 195-5

June 1996

Source: ETSI TC-SPS

Reference: DE/SPS-05061-Z-5

ICS: 33.080

Key words: ISDN, DSS1, supplementary service, testing, TSS&TP, network

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

ETSI

European Telecommunications Standards Institute

ETSI Secretariat

Postal address: F-06921 Sophia Antipolis CEDEX - FRANCE **Office address:** 650 Route des Lucioles - Sophia Antipolis - Valbonne - FRANCE **X.400:** c=fr, a=atlas, p=etsi, s=secretariat - **Internet:** secretariat@etsi.fr

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

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 1996. All rights reserved.

*

Page 2 Draft prETS 300 195-5: June 1996

Whilst every care has been taken in the preparation and publication of this document, errors in content, typographical or otherwise, may occur. If you have comments concerning its accuracy, please write to "ETSI Editing and Committee Support Dept." at the address shown on the title page.

Contents

Forev	vord				7
1	Scope				9
2	Normativ	e references			9
3	Definition	19			10
5	3.1			nance testing	
	3.2			00 195-1	
4	Abbrevia	tions			11
5	Test Suit	e Structure (TSS)		12
	5.1	Two-level st	ructure of the tes	st suite	12
	5.2	Level 1: inte	raction case (tes	st purpose group)	12
	5.3			nteraction case (test purpose subgroup)	
6	Test Purp			· · · · · · · · · · · · · · · · · · ·	
	6.1	Introduction			
		6.1.1		vention	
		6.1.2	Source of TP de	efinition	15
		6.1.3	TP structure		15
		6.1.4			
	6.2				
		6.2.1	Interaction betw	veen AOC-D and AOC-E	
			6.2.1.1	Test suite substructure	
			6.2.1.2	User initiates call clearing	
			6.2.1.3	Network initiates call clearing	
		6.2.2	Interaction betw	veen AOC and ECT	
			6.2.2.1	Test suite substructure	17
			6.2.2.2	AOC-D activated	
			6.2.2.3	AOC-E activated	
			6.2.2.3.1	Identification of charge invocation	
			6.2.2.3.2	Sending of charging information	
		6.2.3		veen AOC and CCBS	
			6.2.3.1	Test suite substructure	
			6.2.3.2	Sending of charging information (S/T ref. point)	
		6.2.4		veen AOC and CD	
			6.2.4.1	Test suite substructure	
			6.2.4.2	Delivery of charging information (S/T ref. point)	20
			6.2.4.2.1	Identification of charge invocation	
			6.2.4.2.2	Sending of charging information	
			6.2.4.3	Delivery of charging information (T ref. point)	
			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)	22
			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)	
		6.2.5		veen AOC and CFB	
			6.2.5.1	Test suite substructure	
			6.2.5.2	Delivery of charging information (S/T ref. point)	
			6.2.5.3	Delivery of charging information (T ref. point)	
			6.2.5.3.1	Sending of charging information (CFB provided by the network)	
			6.2.5.3.2	Identification of charge invoked in partial re-routeing request	
				4	

Page 4 Draft prETS 300 195-5: June 1996

	6.2.5.3.3	Sending of charging information (partial re-routeing)	
6.2.6	Interaction betw	veen AOC and CFNR	26
	6.2.6.1	Test suite substructure	26
	6.2.6.2	Delivery of charging information (S/T ref. point)	26
	6.2.6.3	Delivery of charging information (T ref. point)	27
	6.2.6.3.1	Sending of charging information (CFNR provided by the	
		network)	27
	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 betw	veen AOC and CFU	
	6.2.7.1	Test suite substructure	29
	6.2.7.2	Delivery of charging information (S/T ref. point)	29
	6.2.7.3	Delivery of charging information (T ref. point)	30
	6.2.7.3.1	Sending of charging information (CFU provided by the	
		network)	30
	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)	31
6.2.8	Interaction betw	veen AOC and 3PTY	31
6.2.9	Interaction betw	veen AOC and CONF	31
	6.2.9.1	Test suite substructure	31
	6.2.9.2	Begin conference from N00	
	6.2.9.3	Begin conference from N10	32
	6.2.9.4	Adding a remote user	
	6.2.9.5	Isolate a remote user	33
	6.2.9.6	Reattach a remote user	34
	6.2.9.7	Splitting a remote user	34
	6.2.9.8	Disconnect a remote user	
6.2.10	Interaction betw	veen AOC and TP	35
	6.2.10.1	Test suite substructure	35
	6.2.10.2	Suspending a call	36
	6.2.10.3	Resuming a call	36
	6.2.10.4	Unsuccessful attempt of resuming a call	
6.2.11	Interaction betw	veen CONF and HOLD	37
	6.2.11.1	Test suite substructure	37
	6.2.11.2	Suppress notification to remote user	
	6.2.11.3	Identify remote user who sends a notification	37
6.2.12		veen CONF and CUG supplementary service	38
	6.2.12.1	Test suite substructure	38
	6.2.12.2	Add party to the conference	38
6.2.13	Interaction betw	veen CONF and CONF	38
	6.2.13.1	Test suite substructure	38
	6.2.13.2	Re-invoking a conference within a conference	39
	6.2.13.3	Adding a conference to a conference	
	6.2.13.4	Identify remote user who sends notifications	39
6.2.14	Interaction betw	veen CONF and TP	
	6.2.14.1	Test suite substructure	
	6.2.14.2	Served user of conference attempts suspend	39
	6.2.14.3	Identify remote user who sends notification to conference.	
6.2.15	Interaction betw	veen 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	
	6.2.15.5	Identify remote user who sends notification to conference.	41
6.2.16	Interaction betw	veen CONF and UUS service 3	
	6.2.16.1	Test suite substructure	
	6.2.16.2	CONF controlling user sends UUS3 info to single party	42
	6.2.16.3	CONF controlling user broadcasts UUS3 info	
	6.2.16.4	CONF remote user sends UUS3 info	
	6.2.16.5	Flow control	42

6.2.17			
	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	
6.2.18		veen CD and COLP	
6.2.19		veen CD and COLR	
6.2.20		een CD and UUS	
	6.2.20.1	Test suite substructure	
	6.2.20.2	Deflection before alerting (S/T ref. point)	
	6.2.20.3	Deflection after alerting (S/T ref. point)	
	6.2.20.3.1	UUS1 implicit service	
	6.2.20.3.2	UUS1 explicit service	
	6.2.20.3.3	UUS2 service	
	6.2.20.3.4	UUS3 service	
0.0.04	6.2.20.4	Partial re-routeing (T ref. point)	
6.2.21		veen CFB and COLP	
6.2.22		veen CFB and COLR	
6.2.23		veen CFB and UUS	
	6.2.23.1	Test suite substructure	
	6.2.23.2	Forwarding of UUS supplementary service information	
		(S/T ref. point)	
	6.2.23.3	Forwarding of UUS by public ISDN (T ref. point)	
0.0.04	6.2.23.4	Partial re-routeing (T ref. point)	
6.2.24		veen CFNR and COLP	
6.2.25		veen CFNR and COLR	
6.2.26		veen CFNR and UUS	
	6.2.26.1	Test suite substructure	
	6.2.26.2	Implicit UUS1 request (S/T ref. point)	
	6.2.26.3	Explicit UUS1 request (S/T ref. point)	
	6.2.26.4	UUS2 request (S/T ref. point)	
	6.2.26.5 6.2.26.6	UUS3 request (S/T ref. point)	
	6.2.26.7	Forwarding by public ISDN (T ref. point) Partial re-routeing (T ref. point)	
6.2.27		veen CFU and COLP	
6.2.28		veen CFU and COLR	
6.2.29		veen CFU and UUS	
0.2.29	6.2.29.1	Test suite substructure	
	6.2.29.2	Forwarding of UUS supplementary service information	
	0.2.20.2	(S/T ref. point)	61
	6.2.29.3	Forwarding of UUS by public ISDN (T ref. point)	61
	6.2.29.4	Partial re-routeing (T ref. point)	62
6.2.30		veen TP and 3PTY	
0.2.00	6.2.30.1	Test suite substructure	
	6.2.30.2	Served user of 3PTY invokes TP	
6.2.31		veen HOLD and TP	-
0.2.01	6.2.31.1	Test suite substructure	
	6.2.31.2	Served user of HOLD invokes TP	
6.2.32		veen HOLD and 3PTY	
	6.2.32.1	Test suite substructure	
	6.2.32.2	Holding a 3PTY call	
	6.2.32.3	Retrieving a 3PTY call	
6.2.33	Interaction both	veen CUG and 3PTY	
	Interaction betw		
	6.2.33.1	Test suite substructure	66
		Test suite substructure	
6.2.34	6.2.33.1 6.2.33.2	Test suite substructure Requesting 3PTY across different CUG	66
6.2.34	6.2.33.1 6.2.33.2	Test suite substructure Requesting 3PTY across different CUG veen ECT and MCID Test suite substructure	66 66 66
6.2.34	6.2.33.1 6.2.33.2 Interaction betw	Test suite substructure Requesting 3PTY across different CUG /een ECT and MCID	66 66 66
6.2.34 6.2.35	6.2.33.1 6.2.33.2 Interaction betw 6.2.34.1 6.2.34.2	Test suite substructure Requesting 3PTY across different CUG veen ECT and MCID Test suite substructure	66 66 66 66
	6.2.33.1 6.2.33.2 Interaction betw 6.2.34.1 6.2.34.2	Test suite substructure Requesting 3PTY across different CUG veen ECT and MCID Test suite substructure Requesting MCID after ECT veen ECT and 3PTY Test suite substructure	66 66 66 67 67
	6.2.33.1 6.2.33.2 Interaction betw 6.2.34.1 6.2.34.2 Interaction betw 6.2.35.1 6.2.35.2	Test suite substructure Requesting 3PTY across different CUG veen ECT and MCID Test suite substructure Requesting MCID after ECT veen ECT and 3PTY Test suite substructure Transfer of a 3-way conversation	66 66 66 67 67 67
	6.2.33.1 6.2.33.2 Interaction betw 6.2.34.1 6.2.34.2 Interaction betw 6.2.35.1 6.2.35.2 Interaction betw	Test suite substructure Requesting 3PTY across different CUG veen ECT and MCID Test suite substructure Requesting MCID after ECT veen ECT and 3PTY Test suite substructure Transfer of a 3-way conversation veen ECT and UUS	66 66 66 67 67 67 67
6.2.35	6.2.33.1 6.2.33.2 Interaction betw 6.2.34.1 6.2.34.2 Interaction betw 6.2.35.1 6.2.35.2 Interaction betw	Test suite substructure Requesting 3PTY across different CUG veen ECT and MCID Test suite substructure Requesting MCID after ECT veen ECT and 3PTY Test suite substructure Transfer of a 3-way conversation	66 66 66 67 67 67 67

Page 6 Draft prETS 300 195-5: June 1996

	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	
	6.2.38.2 Delivering calling line identity to private ISDN	69
6.2.39	Interaction between CCBS and CLIR	
	6.2.39.1 Test suite substructure	
	6.2.39.2 Terminating T reference point	
6.2.40	Interaction between CCBS and CUG	
	6.2.40.1 Test suite substructure	
	6.2.40.2 Redefining the CUG requirement (S/T ref. point)	
6.2.41	Interaction between CCBS and MSN	71
	6.2.41.1 Test suite substructure	
	6.2.41.2 Calling user identity in FACILITY messages to user A	71
6.2.42	Interaction between CCBS and SUB	
6.2.43	Interaction between FPH and COLP	
6.2.44	Interaction between ECT and CUG	72
	6.2.44.1 Test suite substructure	
	6.2.44.2 Requesting ECT across different CUG	72
6.2.45	Interaction between ECT and TP	
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	
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	73
6.2.48	Interaction between UUS and TP	74
	6.2.48.1 Test suite substructure	
	6.2.48.2 Suspending a call when UUS3 is activated	74
7 Compliance		74
		74
8 Requirements for a	comprehensive testing service	/4
History		75

Foreword

This draft European Telecommunication Standard (ETS) has been produced by the Signalling Protocols and Switching (SPS) Technical Committee of the European Telecommunications Standards Institute (ETSI), and is now submitted for the Public Enquiry phase of the ETSI standards approval procedure.

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) Supplementary service interactions, 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".

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

Blank page

1 Scope

This fifth part of ETS 300 195 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[15]) 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, ETS 300 195-1 [1].

A further part of this ETS specifies the Abstract Test Suite (ATS) and partial PIXIT proforma based on this ETS. Other parts specify the TSS&TP and the ATS and partial PIXIT proforma for the User side of the T reference point or coincident S and T reference point of implementations conforming to ETS 300 195-1 [4].

2 Normative references

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

[1]	ETS 300 102-1: "Integrated Services Digital Network (ISDN); User-network interface layer 3; Specifications for basic call control".
[2]	ETS 300 182-2 (1995): "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]	ETS 300 185-2 (1995): "Integrated Services Digital Network (ISDN); Conference call, add-on (CONF) supplementary service; Digital Subscriber signalling System No. one (DSS1) protocol; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".
[4]	ETS 300 195-1 (1995): "Integrated Services Digital Network (ISDN); Supplementary service interactions; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
[5]	ETS 300 195-2: "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".
[6]	ETS 300 196-1 (1993): "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".
[7]	ETS 300 207-1 (1994): "Integrated Services Digital Network (ISDN); Diversion supplementary services; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
[8]	ETS 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".
[9]	ISO/IEC 9646-1: "Information Technology - OSI Conformance Testing Methodology and Framework; Part 1: General Concepts".
[10]	ISO/IEC 9646-2: "Information Technology - OSI Conformance Testing Methodology and Framework; Part 2: Abstract Test Suite specification".

Page 10 Draft prETS 300 195-5: June 1996

[11]	ISO/IEC 9646-3: "Information Technology - OSI Conformance Testing Methodology and Framework; Part 3: The Tree and Tabular Combined Notation".
[12]	CCITT Recommendation E.164 (1988): "Numbering plan for the ISDN era".
[13]	ITU-T Recommendation I.112 (1993): "Vocabulary and terms for ISDNs".
[14]	ITU-T Recommendation I.210 (1993): "Principles of the telecommunication services supported by an ISDN and the means to describe them".
[15]	ITU-T Recommendation I.411 (1993): "ISDN user-network interfaces - Reference configurations".

3 Definitions

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

3.1 Definitions related to conformance testing

abstract test case: Refer to ISO/IEC 9646-1 [9].

Abstract Test Suite (ATS): Refer to ISO/IEC 9646-1 [9].

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

Implementation Under Test (IUT): Refer to ISO/IEC 9646-1 [9].

implicit send event: Refer to ISO/IEC 9646-3 [11].

lower tester: Refer to ISO/IEC 9646-1 [9].

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

point of control and observation: Refer to ISO/IEC 9646-1 [9].

Protocol Implementation Conformance Statement (PICS): Refer to ISO/IEC 9646-1 [9].

PICS proforma: Refer to ISO/IEC 9646-1 [9].

Protocol Implementation eXtra Information for Testing (PIXIT): Refer to ISO/IEC 9646-1 [9].

PIXIT proforma: Refer to ISO/IEC 9646-1 [9].

system under test: Refer to ISO/IEC 9646-1 [9].

Test Purpose (TP): Refer to ISO/IEC 9646-1 [9].

3.2 Definitions related to ETS 300 195-1

call held auxiliary state: See ETS 300 196-1 [6], subclause 7.1.2.

call reference: See ETS 300 102-1 [1], subclause 4.3.

component: See ETS 300 196-1 [6], subclause 11.2.2.1.

idle auxiliary state: See ETS 300 196-1 [6], subclause 7.1.2.

Integrated Services Digital Network (ISDN): See ITU-T Recommendation I.112 [13], definition 308.

ISDN number: A number conforming to the numbering and structure specified in CCITT Recommendation E.164 [12].

invoke component: See ETS 300 196-1 [6], subclause 11.2.2.1.

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

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

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

return error component: See ETS 300 196-1 [6], subclause 11.2.2.1.

return result component: See ETS 300 196-1 [6], subclause 11.2.2.1.

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

service; telecommunications service: See ITU-T Recommendation I.112 [13], definition 201.

supplementary service: See ITU-T Recommendation I.210 [14], subclause 2.4.

4 Abbreviations

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

Page 12 Draft prETS 300 195-5: June 1996

N07	Call Received Call state
N08	Connect request Call state
N09	Incoming Call Proceeding Call state
N10	Active Call state
N11	Disconnect request Call state
N12	Disconnect Indication Call state
N19	Release Request Call state
N25	Overlap Receiving Call state
N31	Bearer independent transport Call state
SCRef	Call Reference for a private call (not related to the conference)
SSI	Supplementary Service Interactions
SUB	Subaddressing
TP	Terminal Portability
TP	Terminal Purpose
TSS	Test Suite Structure
UUI	User-to-User Information
UUS	User-to-User Signalling
UUS1/2/3	UUS service 1/2/3

5 Test Suite Structure (TSS)

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 TSS&TP standard.

5.2 Level 1: interaction case (test purpose group)

The interaction cases correspond to subclauses 5.1 to 5.48 of ETS 300 195-1 [4]. They are depicted in figure 1 and table 1.

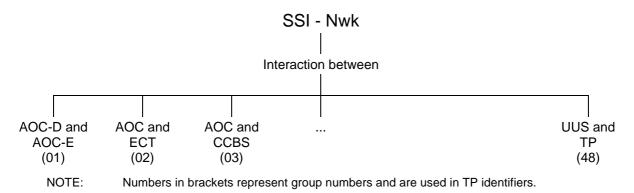


Figure 1: Test suite structure - level 1

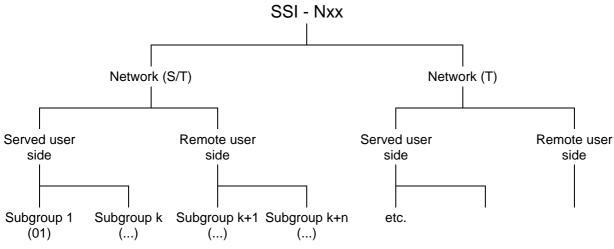
Group	Interaction between		
01	the AOC-D and AOC-E supplementary services		
02	the AOC and ECT supplementary services		
03	the AOC and CCBS supplementary services		
04	the AOC and CD supplementary services		
05	the AOC and CFB supplementary services		
06	the AOC and CFNR supplementary services		
07	the AOC and CFU supplementary services		
08	the AOC and 3PTY supplementary services		
09	the AOC and CONF supplementary services		
10	the AOC and Terminal Portability 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 Terminal Portability 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		
20	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 Terminal Portability and 3PTY supplementary services		
31	the HOLD and Terminal Portability 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		
40	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 Terminal Portability supplementary services		
46	the CONF and MCID supplementary services		
47	the CCBS and CW supplementary services		
48	the UUS and Terminal Portability supplementary services		
-+0	Inte eee and reminal remainly supplementary services		

Table 1: Group numbers - level 1

Page 14 Draft prETS 300 195-5: June 1996

5.3 Level 2: substructure of an interaction case (test purpose subgroup)

The specific substructure of each interaction case is depicted in the corresponding subclause of clause 6. An example of a possible substructure is given in figure 2 for illustrative purposes. In the root node "SSI -Nxx", the symbol "xx" needs to be replaced by the relevant value of column 1 in table 1.



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

Figure 2: Example of test suite substructure - level 2

Within the group of general procedures, a subgroup is reserved for each individual procedure, starting with subgroup 01. Presently, only one general procedure is specified for supplementary service interactions (identification of charge).

6 Test Purposes (TP)

6.1 Introduction

For each test requirement a TP is defined.

6.1.1 TP naming convention

TPs are numbered, starting at 001, within each group/subgroup combination. The group/subgroup combinations are organized according to the TSS described in clause 5. Additional references are added to identify the actual test suite and whether it applies to the network or the user (see table 2).

Table 2: TP identifier naming convention scheme

Identifier:		<ss>_<iut><group>_<subgroup>_<nnn></nnn></subgroup></group></iut></ss>		
<\$\$>	= supplementary service: e.g. "SSI"			
<iut></iut>	=	type of IUT:	U N	User Network
<group></group>	=	group	2 digit	field representing group reference according to TSS
<subgroup:< td=""><td>> =</td><td>subgroup</td><td>2 digit</td><td>field representing subgroup reference according to TSS</td></subgroup:<>	> =	subgroup	2 digit	field representing subgroup reference according to TSS
<nnn></nnn>	=	sequential number	(001-9	999)

6.1.2 Source of TP definition

The TPs are based on ETS 300 195-1 [4], clauses 5 and 6.

6.1.3 TP structure

Each TP has been written in a manner which is consistent with all other TPs. The intention of this is to make the TPs more readable and checkable. A particular structure has been used and this is illustrated in table 3. This table should be read in conjunction with any TP, i.e. use a TP as an example to fully understand the table.

NOTE: The structuring of TP grouping in two levels (TP group and subgroup) is specific to this ETS. Other TSS&TP standards use only one level of TP grouping.

TP part	Text	Example
Header	<identifier> tab</identifier>	see table 1
	<paragraph base="" ets="" in="" number=""> tab</paragraph>	subclause 0.0.0
	<type of="" test=""> tab</type>	valid, invalid, inopportune
	<condition> CR.</condition>	mandatory, optional, conditional
Stimulus	Ensure that the IUT in the	
	<basic call="" state=""></basic>	N00, N10, etc.
	<trigger> see below for message structure</trigger>	receiving a XXXX message
	or <goal></goal>	to request a
Reaction	<action></action>	sends, saves, does, etc.
	<conditions></conditions>	using en bloc sending,
	if the action is sending	
	see below for message structure	
	<next action="">, etc.</next>	
	and enters <supplementary service="" state=""></supplementary>	
	and/or and remains in the same state(s)	
	or and enters state <state> with CR<number(s)></number(s)></state>	
Message	<message type=""></message>	SETUP, FACILITY, CONNECT,
structure	message containing a	
	a) <info element=""></info>	Bearer capability, Facility,
	information element with	
	<i>b)</i> a <field name=""></field>	
	encoded as <i>or</i> including	
	<coding field="" of="" the=""> and back to a or b,</coding>	
NOTE:	Text in italics will not appear in TPs and text betwee	en <> is filled in for each TP and may
	differ from one TP to the next.	

Table 3: Structure of a single TP

6.1.4 Test strategy

As the base standard ETS 300 195-1 [4] contains no explicit requirements for testing, the TPs were generated as a result of an analysis of the base standard and the PICS specification ETS 300 195-2 [5]. The criteria applied include the following:

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

Page 16 Draft prETS 300 195-5: June 1996

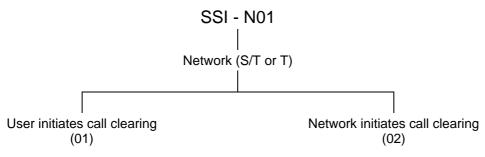
6.2 Network TPs for SSI

All PICS items referred to in this subclause are as specified in ETS 300 195-2 [5] unless indicated otherwise by another numbered reference.

6.2.1 Interaction between AOC-D and AOC-E

Selection: IUT supports the interaction between AOC-D and AOC-E. PICS: MC 2.13 AND MC 2.14.

6.2.1.1 Test suite substructure



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

Figure 3: N01 test suite substructure - level 2

6.2.1.2 User initiates call clearing

SSI_N01_01_001 subclause 5.1 valid mandatory Ensure that the IUT, in call state N10 and in the simultaneous AOC-D activated and AOC-E activated states, receiving a DISCONNECT message,

responds with a RELEASE message with a Facility information element including either an AOCECurrency invoke component or an AOCEChargingUnitInfo invoke component and including neither an AOCDCurrency invoke component nor an AOCDChargingUnitInfo invoke component and enters call state N19.

SSI_N01_01_002 subclause 5.1 valid mandatory Ensure that the IUT, in call state N10 and in the simultaneous AOC-D activated and AOC-E activated states, receiving a RELEASE message,

responds with a RELEASE COMPLETE message with a Facility information element including either an AOCECurrency invoke component or an AOCEChargingUnitInfo invoke component and including neither an AOCDCurrency invoke component nor an AOCDChargingUnitInfo invoke component and enters call state N00.

6.2.1.3 Network initiates call clearing

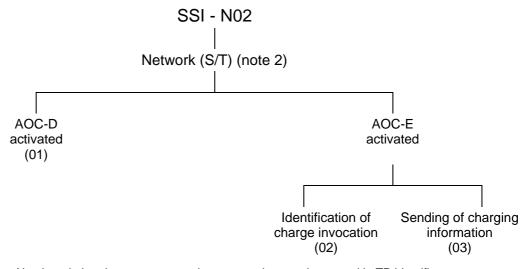
SSI_N01_02_001 subclause 5.1 valid mandatory Ensure that the IUT, in call state N10 and in the simultaneous AOC-D activated and AOC-E activated states, in order to initiate call clearing, sends a DISCONNECT message with a Facility information element including either an

sends a DISCONNECT message with a Facility information element including either an AOCECurrency invoke component or an AOCEChargingUnitInfo invoke component and including neither an AOCDCurrency invoke component nor an AOCDChargingUnitInfo invoke component and enters call state N12.

6.2.2 Interaction between AOC and ECT

Selection: IUT supports the interaction between AOC and ECT. PICS: MC 2.20 AND (MC 2.12 OR MC 2.13 OR MC 2.14).

6.2.2.1 Test suite substructure



- NOTE 1: Numbers in brackets represent subgroup numbers and are used in TP identifiers. NOTE 2: When the served user is a Private ISDN, no call transfer is performed in the public network.
 - 2: When the served user is a Private ISDN, no call transfer is performed in the public network. The pre-existing two independent calls (or the single call) continue to exist at the T reference point. No case for AOC/ECT interaction arises at the T reference point.

Figure 4: N02 test suite substructure - level 2

6.2.2.2 AOC-D activated

Selection: The served user is charged for a part of the transferred call.

SSI_N02_01_001 subclause 5.2.2.1.1 valid mandatory Ensure that the IUT, in the ECT Idle state and with CR1 in state N10 (Held) and CR2 in state N10 (Idle), being in the AOC-D activated state for CR1, receiving a valid FACILITY message with CR1 containing a Facility information element with an EctExecute invoke component,

responds in the way which is specified for the ECT supplementary service (ECT_N01_001) and includes an AOCDCurrency or an AOCDChargingUnit invoke component with the TypeOfChargingInfo parameter indicating "SubTotal" in the DISCONNECT message sent for CR1.

SSI_N02_01_002subclause 5.2.2.1.1validmandatoryEnsure that the IUT, in the ECT Idle state with CR1 in state N10 (Held) and CR2 in state N10 (Idle), being
in the AOC-D activated state for CR1, and CR3 in state N10 (Idle) receiving a valid FACILITY message
with CR1 containing a Facility information element with an ExplicitEctExecute invoke component,

responds in the way which is specified for the ECT supplementary service (ECT_N02_006) and includes an AOCDCurrency or an AOCDChargingUnit invoke component with the TypeOfChargingInfo parameter indicating "SubTotal" in the DISCONNECT message sent for CR1.

6.2.2.3 AOC-E activated

6.2.2.3.1 Identification of charge invocation

Selection: IUT supports the sending of AOC-E type charging information pertaining to a transferred call when the transferred call is released. PICS: SC 6.1.

SSI_N02_02_001subclause 5.2.2.1.1validmandatoryEnsure that the IUT, in the ECT Idle state and with CR1 in state N10 (Held) and CR2 in state N10 (Idle),
being in the AOC-E activated state for CR1, receiving a valid FACILITY message with CR1 containing a
Facility information element with an EctExecute invoke component and an IdentificationOfCharge invoke
component with a ChargingAssociation argument,

responds in the way which is specified for the ECT supplementary service (ECT_N01_001).

SSI_N02_02_002subclause 5.2.2.1.1validmandatoryEnsure that the IUT, in the ECT Idle state with CR1 in state N10 (Held) and CR2 in state N10 (Idle), being
in the AOC-E activated state for CR1, and CR3 in state N10 (Idle) receiving a valid FACILITY message
with CR1 containing a Facility information element with an ExplicitEctExecute invoke component and an
IdentificationOfCharge invoke component with a ChargingAssociation argument,

responds in the way which is specified for the ECT supplementary service (ECT_N02_006).

SSI_N02_02_003 subclause 5.2.2.1.2 inopportune mandatory

Ensure that the IUT, in the ECT Idle state and with CR1 in state N10 (Held) and CR2 in state N10 (Idle), receiving a valid FACILITY message with CR1 containing a Facility information element with an EctExecute invoke component and an IdentificationOfCharge invoke component with a ChargingAssociation argument but the user is not subscribed to the AOC-E supplementary service,

responds in the way which is specified for the ECT supplementary service (ECT_N01_001) and includes an IdentificationOfCharge return error component in the response, indicating "notSubscribed" to the user.

SSI_N02_02_004 subclause 5.2.2.1.2 inopportune mandatory

Ensure that the IUT, in the ECT Idle state and with CR1 in state N10 (Held) and CR2 in state N10 (Idle), receiving a valid FACILITY message with CR1 containing a Facility information element with an EctExecute invoke component and an IdentificationOfCharge invoke component with a ChargingAssociation argument but the user, who is subscribed to AOC-E on a per call basis but has not activated AOC-E,

responds in the way which is specified for the ECT supplementary service (ECT_N01_001) and includes an IdentificationOfCharge return error component in the response, indicating "notAvailable" to the user.

6.2.2.3.2 Sending of charging information

Selection: IUT supports the sending of AOC-E type charging information pertaining to a transferred call when the transferred call is released. PICS: SC 6.1.

SSI_N02_03_001 subclause 5.2.2.1.1 valid mandatory Ensure that the IUT, in call state N00 after having accepted an explicit call transfer request (IdentificationOfCharge invoke component has been received), when the served user of the ECT operation is subscribed to the MSN supplementary service and AOC-E had been activated, to transfer charging information to the served user when the transferred call is released at the remote sides,

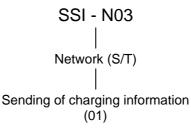
sends a FACILITY message using the dummy call reference and containing in the Called party number information element the ISDN number associated with the call reference used in the activation of the ECT supplementary service and a Facility information element with either an AOCECurrency invoke component or an AOCEChargingUnitInfo invoke component including the ChargingAssociation parameter and remains in call state N00.

SSI_N02_03_002 subclause 5.2.2.1.1 valid mandatory Ensure that the IUT, in call state N00 after having accepted an explicit call transfer request (IdentificationOfCharge invoke component has been received), when AOC-E had been activated, to transfer charging information to the served user when the transferred call is released at the remote sides, sends a FACILITY message using the dummy call reference and containing a Facility information element with either an AOCECurrency invoke component or an AOCEChargingUnitInfo invoke component including the ChargingAssociation parameter and remains in call state N00.

6.2.3 Interaction between AOC and CCBS

Selection: IUT supports the interaction between AOC and CCBS. PICS: MC 2.7 AND (MC 2.12 OR MC 2.13 OR MC 2.14).

6.2.3.1 Test suite substructure



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

Figure 5: N03 test suite substructure - level 2

6.2.3.2 Sending of charging information (S/T ref. point)

SSI_N03_01_001subclause 5.3.2.2.1normalmandatoryEnsure that the IUT, in call state N10 of a call resulting from a CCBSCall invocation, and in the AOC-Dactivated state as a result of retaining an AOC-D request from the original call, in which AOC-D had beensuccessfully requested on a per call basis, to transfer charging information to the served user,

includes a Facility information element including an AOCDCurrencyInfo or an AOCDChargingUnit invoke component in a FACILITY message and remains in call state N10.

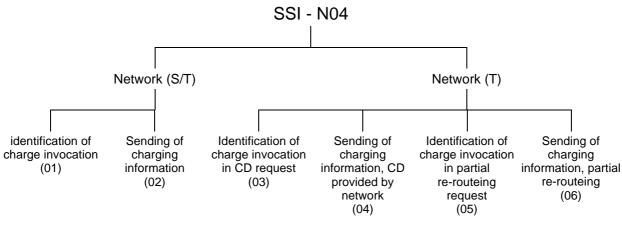
SSI_N03_01_002subclause 5.3.2.2.1normalmandatoryEnsure that the IUT, in call state N10 of a call resulting from a CCBSCall invocation, and in the AOC-Dactivated state as a result of retaining an AOC-D request from the original call, in which AOC-D had beensuccessfully requested on a per call basis, receiving a DISCONNECT message,

responds with a RELEASE message with a Facility information element including an AOCECurrency or an AOCEChargingUnitInfo invoke component and enters call state N19.

6.2.4 Interaction between AOC and CD

Selection: IUT supports the interaction between AOC and CD. PICS: MC 2.24 AND (MC 2.12 OR MC 2.13 OR MC 2.14).

6.2.4.1 Test suite substructure



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

Figure 6: N04 test suite substructure - level 2

6.2.4.2 Delivery of charging information (S/T ref. point)

6.2.4.2.1 Identification of charge invocation

Selection: IUT supports the sending of AOC-E type charging information pertaining to a deflected call when that call is released. PICS: SC 7.1.

SSI_N04_01_001 subclause 5.4.2.1.1 valid mandatory Ensure that the IUT, in the Call Received call state N07 and diversion service Idle state while the AOC-E supplementary service is activated for all calls, receiving a valid FACILITY message containing a Facility information element with a CallDeflection invoke component and an IdentificationOfCharge invoke component with a ChargingAssociation argument,

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallDeflection return result component and enters call state N12 or sends a FACILITY message with a CallDeflection return result component and remains in call state N07.

SSI_N04_01_002 subclause 5.4.2.1.2 inopportune mandatory Ensure that the IUT, in the Call Received call state N07 and diversion service Idle state, receiving a valid FACILITY message containing a Facility information element with a CallDeflection invoke component and an IdentificationOfCharge invoke component with a ChargingAssociation argument, but the AOC-E supplementary service is not activated,

sends a DISCONNECT message with cause value #31 "Normal, unspecified", a CallDeflection return result component and an IdentificationOfCharge return error component and enters call state N12 or sends a FACILITY message with a CallDeflection return result component and an IdentificationOfCharge return error component and remains in call state N07.

6.2.4.2.2 Sending of charging information

Selection: IUT supports the sending of AOC-E type charging information pertaining to a deflected call when that call is released. PICS: SC 7.1.

SSI_N04_02_001subclause 5.4.2.1.1validmandatoryEnsure that the IUT, in call state N00 but having accepted a call deflection request (IdentificationOfCharge

invoke component has been received), when the served user of the CD operation is subscribed to the MSN supplementary service and the AOC-E supplementary service is activated for all calls, to transfer charging information to the served user when the deflected call is released,

sends a FACILITY message using the dummy call reference and containing in the Called party number information element the ISDN number associated with the call reference used in the activation of the CD supplementary service and a Facility information element with an AOCECurrency or an AOCEChargingUnitInfo invoke component including the ChargingAssociation parameter and remains in call state N00.

SSI_N04_02_002subclause 5.4.2.1.1validmandatoryEnsure that the IUT, in call state N00 but having accepted a call deflection request (IdentificationOfCharge
invoke component has been received), when the AOC-E supplementary service is activated for all calls, to
transfer charging information to the served user when the deflected call is released,

sends a FACILITY message using the dummy call reference and a Facility information element with an AOCECurrency or an AOCEChargingUnitInfo invoke component including the ChargingAssociation parameter and remains in call state N00.

6.2.4.3 Delivery of charging information (T ref. point)

6.2.4.3.1 Identification of charge invocation in CD request

Selection: IUT supports the sending of AOC-E type charging information pertaining to a deflected call when that call is released. PICS: SC 7.1.

SSI_N04_03_001 subclause 5.4.3.1 valid mandatory Ensure that the IUT, in the Call Received call state N07 and diversion service Idle state while the AOC-E supplementary service is activated for all calls, receiving a valid FACILITY message containing a Facility information element with a CallDeflection invoke component and an IdentificationOfCharge invoke component with a ChargingAssociation argument,

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallDeflection return result component and enters call state N12 or sends a FACILITY message with a CallDeflection return result component and remains in call state N07.

SSI_N04_03_002 subclause 5.4.3.1 inopportune mandatory Ensure that the IUT, in the Call Received call state N07 and diversion service Idle state, receiving a valid FACILITY message containing a Facility information element with a CallDeflection invoke component and an IdentificationOfCharge invoke component with a ChargingAssociation argument, but the AOC-E supplementary service is not activated,

sends a DISCONNECT message with cause value #31 "Normal, unspecified", a CallDeflection return result component and an IdentificationOfCharge return error component and enters call state N12 or sends a FACILITY message with a CallDeflection return result component and an IdentificationOfCharge return error component and remains in call state N07.

6.2.4.3.2 Sending of charging information (CD provided by the network)

Selection: IUT supports the sending of AOC-E type charging information pertaining to a deflected call when that call is released. PICS: SC 7.1.

SSI_N04_04_001subclause 5.4.3.1validmandatoryEnsure that the IUT, in call state N00 but having accepted a call deflection request (IdentificationOfCharge
invoke component has been received), when the served user of the CD operation is subscribed to the DDI
supplementary service and the AOC-E supplementary service is activated for all calls, to transfer charging
information to the served user when the deflected call is released,

sends a FACILITY message using the dummy call reference and containing in the Called party number information element the ISDN number associated with the call reference used in the activation of the CD supplementary service and a Facility information element with an AOCECurrency or an AOCEChargingUnitInfo invoke component including the ChargingAssociation parameter and remains in call state N00.

SSI_N04_04_002subclause 5.4.3.1validmandatoryEnsure that the IUT, in call state N00 but having accepted a call deflection request (IdentificationOfCharge
invoke component has been received), when the AOC-E supplementary service is activated for all calls, to
transfer charging information to the served user when the deflected call is released,

sends a FACILITY message using the dummy call reference and a Facility information element with an AOCECurrency or an AOCEChargingUnitInfo invoke component including the ChargingAssociation parameter and remains in call state N00.

6.2.4.3.3 Identification of charge invocation in partial re-routeing request

Selection: IUT supports the sending of AOC-E type charging information pertaining to a deflected call when that call is released. PICS: SC 7.1.

SSI_N04_05_001 subclause 5.4.3.2.1 valid mandatory

Ensure that the IUT, in the Call Received call state N07 and diversion service Idle state while the AOC-E supplementary service is activated for all calls, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component including a RerouteingReason parameter indicating "cdImmediate" and an IdentificationOfCharge invoke component with a ChargingAssociation argument,

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallRerouteing return result component and enters call state N12.

Selection: Network provided option "served user call retention on invocation of diversion" is "clear call on invocation of diversion"

SSI_N04_05_002 subclause 5.4.3.2.1 valid mandatory Ensure that the IUT, in the Call Received call state N07 and diversion service Idle state, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component including a RerouteingReason parameter indicating "cdImmediate" and a ChargingRequest invoke component with a ChargingCase parameter indicating "chargingAtTheEndOfTheCall",

sends a DISCONNECT message with cause value #31 "Normal, unspecified", a CallRerouteing return result component and a ChargingRequest return result component and enters call state N12. **Selection:** Network provided option "served user call retention on invocation of diversion" is "clear call on invocation of diversion"

SSI_N04_05_003 subclause 5.4.3.2.1 valid mandatory

Ensure that the IUT, in the Call Received call state N07 and diversion service Idle state while the AOC-E supplementary service is activated for all calls, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component including a RerouteingReason parameter indicating "cdAlerting" and an IdentificationOfCharge invoke component with a ChargingAssociation argument,

sends a FACILITY message with a CallRerouteing return result component and remains in call state N07.

Selection: Network provided option "served user call retention on invocation of diversion" is "retain call until alerting begins at the diverted-to user".

mandatory

SSI_N04_05_004 subclause 5.4.3.2.1

Ensure that the IUT, in the Call Received call state N07 and diversion service Idle state, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component including a RerouteingReason parameter indicating "cdAlerting" and a ChargingRequest invoke component with a ChargingCase parameter indicating "chargingAtTheEndOfTheCall",

sends a FACILITY message with a CallRerouteing return result component and a ChargingRequest return result component and remains in call state N07.

valid

Selection: Network provided option "served user call retention on invocation of diversion" is "retain call until alerting begins at the diverted-to user"

SSI_N04_05_005 subclause 5.4.3.2.2 inopportune mandatory Ensure that the IUT, in the Call Received call state N07 and (diversion) Idle state, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component including a RerouteingReason parameter indicating "cdImmediate" and an IdentificationOfCharge invoke component with a ChargingAssociation argument, but the AOC-E supplementary service is not activated,

- sends a DISCONNECT message with cause value #31 "Normal, unspecified", a CallRerouteing return result component and an IdentificationOfCharge return error component and enters call state N12.
- **Selection:** Network provided option "served user call retention on invocation of diversion" is "clear call on invocation of diversion"

SSI_N04_05_006 subclause 5.4.3.2.2 inopportune mandatory

Ensure that the IUT, in the Call Received call state N07 and (diversion) Idle state, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component including a RerouteingReason parameter indicating "cdAlerting" and an IdentificationOfCharge invoke component with a ChargingAssociation argument, but the AOC-E supplementary service is not activated,

sends a FACILITY message with a CallRerouteing return result component and an IdentificationOfCharge return error component and remains in call state N07.

Selection: Network provided option "served user call retention on invocation of diversion" is "retain call until alerting begins at the diverted-to user"

6.2.4.3.4 Sending of charging information (partial re-routeing)

Selection: IUT supports the sending of AOC-E type charging information pertaining to a deflected call when that call is released. PICS: SC 7.1.

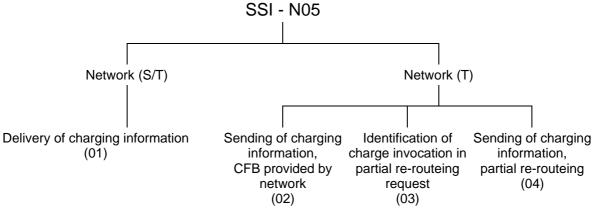
SSI_N04_06_001 subclause 5.4.3.2.1 valid mandatory Ensure that the IUT, in call state N00 but having accepted a partial re-routeing request on call deflection (IdentificationOfCharge invoke component has been received), when the AOC-E supplementary service is activated for all calls, to transfer charging information to the served user when the deflected call is released,

sends a FACILITY message using the dummy call reference and a Facility information element with an AOCECurrency or an AOCEChargingUnitInfo invoke component including the ChargingAssociation parameter and remains in call state N00. Page 24 Draft prETS 300 195-5: June 1996

6.2.5 Interaction between AOC and CFB

Selection: IUT supports the interaction between AOC and CFB. PICS: MC 2.21 AND (MC 2.12 OR MC 2.13 OR MC 2.14).

6.2.5.1 Test suite substructure



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

Figure 7: N05 test suite substructure - level 2

6.2.5.2 Delivery of charging information (S/T ref. point)

Selection: IUT supports the sending of AOC-E type charging information pertaining to a forwarded call when that call is released. PICS: SC 8.1.

SSI_N05_01_001 subclause 5.5.2.1.1 valid mandatory

Ensure that the IUT, in call state N00, having accepted a CFB request and a call is presently forwarded, when the served user of the CFB operation is subscribed to the MSN supplementary service and the AOC-E supplementary service is activated for all calls, to transfer charging information to the served user when the forwarded call is released,

sends a FACILITY message using the dummy call reference and containing in the Called party number information element the ISDN number associated with the served user and a Facility information element including an AOCECurrency or an AOCEChargingUnitInfo invoke component and remains in call state N00.

SSI_N05_01_002 subclause 5.5.2.1.1 valid mandatory Ensure that the IUT, in call state N00, having accepted a CFB request and a call is presently forwarded, when the AOC-E supplementary service is activated for all calls, to transfer charging information to the served user when the forwarded call is released,

sends a FACILITY message using the dummy call reference and a Facility information element including an AOCECurrency or an AOCEChargingUnitInfo invoke component and remains in call state N00.

6.2.5.3 Delivery of charging information (T ref. point)

6.2.5.3.1 Sending of charging information (CFB provided by the network)

Selection: IUT supports the sending of AOC-E type charging information pertaining to a forwarded call when that call is released. PICS: SC 8.1.

SSI N05 02 001 subclause 5.5.3.1 valid mandatory Ensure that the IUT, in call state N00, having accepted a CFB request for the whole private network and a call is presently forwarded, when the private network is subscribed to the DDI supplementary service and the AOC-E supplementary service is activated for all calls, to transfer charging information to the served user when the forwarded call is released,

sends a FACILITY message using the dummy call reference and containing in the Called party number information element the ISDN number associated with the served user and a Facility information element including an AOCECurrency or an AOCEChargingUnitInfo invoke component and remains in call state N00.

SSI N05 02 002 subclause 5.5.3.1 valid mandatorv Ensure that the IUT, in call state N00, having accepted a CFB request for the whole private network and a call is presently forwarded, when the AOC-E supplementary service is activated for all calls, to transfer charging information to the served user when the forwarded call is released.

sends a FACILITY message using the dummy call reference and a Facility information element including an AOCECurrency or an AOCEChargingUnitInfo invoke component and remains in call state N00.

6.2.5.3.2 Identification of charge invoked in partial re-routeing request

Selection: IUT supports the sending of AOC-E type charging information pertaining to a forwarded call when that call is released. PICS: SC 8.1.

SSI N05 03 001 subclause 5.5.3.2 valid mandatory Ensure that the IUT, in the Call Received call state N07 and diversion service Idle state while the AOC-E supplementary service is activated for all calls, receiving a valid FACILITY message containing a Facility information element including a CallRerouteing invoke component with a RerouteingReason parameter indicating "cfb" and an IdentificationOfCharge invoke component with a ChargingAssociation argument,

sends a FACILITY message with a CallRerouteing return result component and remains in call state N07.

SSI N05 03 002 subclause 5.5.3.2 valid mandatory Ensure that the IUT, in the Call Received call state N07 and diversion service Idle state, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component including a RerouteingReason parameter indicating "cfb" and a ChargingRequest invoke component with a ChargingCase parameter indicating "chargingAtTheEndOfTheCall",

sends a FACILITY message with a CallRerouteing return result component and a ChargingRequest return result component and remains in call state N07.

SSI N05 03 003 subclause 5.5.3.2

inopportune mandatory Ensure that the IUT, in the Call Received call state N07 and (diversion) Idle state, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component including a RerouteingReason parameter indicating "cfb" and an IdentificationOfCharge invoke component with a ChargingAssociation argument, but the AOC-E supplementary service is not activated,

sends a FACILITY message with a CallRerouteing return result component and an IdentificationOfCharge return error component and remains in call state N07.

6.2.5.3.3 Sending of charging information (partial re-routeing)

Selection: IUT supports the sending of AOC-E type charging information pertaining to a forwarded call when that call is released. PICS: SC 8.1.

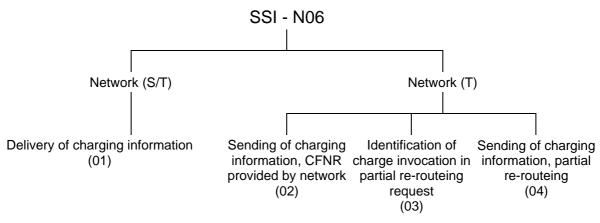
SSI_N05_04_001 subclause 5.5.3.2 valid mandatory Ensure that the IUT, in call state N00 but having accepted a partial re-routeing request on call forwarding busy (IdentificationOfCharge invoke component has been received), when the AOC-E supplementary service is activated for all calls, to transfer charging information to the served user when the deflected call is released,

sends a FACILITY message using the dummy call reference and a Facility information element with an AOCECurrency or an AOCEChargingUnitInfo invoke component including the ChargingAssociation parameter and remains in call state N00.

6.2.6 Interaction between AOC and CFNR

Selection: IUT supports the interaction between AOC and CFNR. PICS: MC 2.22 AND (MC 2.12 OR MC 2.13 OR MC 2.14).

6.2.6.1 Test suite substructure



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

Figure 8: N06 test suite substructure - level 2

6.2.6.2 Delivery of charging information (S/T ref. point)

Selection: IUT supports the sending of AOC-E type charging information pertaining to a forwarded call when that call is released. PICS: SC 9.1.

SSI_N06_01_001 subclauses 5.6, 5.5.2.1.1 valid mandatory

Ensure that the IUT, in call state N00, having accepted a CFNR request and a call is presently forwarded, when the served user of the CFNR operation is subscribed to the MSN supplementary service and the AOC-E supplementary service is activated for all calls, to transfer charging information to the served user when the forwarded call is released,

sends a FACILITY message using the dummy call reference and containing in the Called party number information element the ISDN number associated with the served user and a Facility information element including an AOCECurrency or an AOCEChargingUnitInfo invoke component and remains in call state N00.

SSI_N06_01_002 subclauses 5.6, 5.5.2.1.1 valid mandatory Ensure that the IUT, in call state N00, having accepted a CFU request and a call is presently forwarded, when the AOC-E supplementary service is activated for all calls, to transfer charging information to the served user when the forwarded call is released,

sends a FACILITY message using the dummy call reference and a Facility information element including an AOCECurrency or an AOCEChargingUnitInfo invoke component and remains in call state N00.

6.2.6.3 Delivery of charging information (T ref. point)

6.2.6.3.1 Sending of charging information (CFNR provided by the network)

Selection: IUT supports the sending of AOC-E type charging information pertaining to a forwarded call when that call is released. PICS: SC 9.1.

SSI_N06_02_001 subclauses 5.6, 5.5.3.1 valid mandatory Ensure that the IUT, in call state N00, having accepted a CFNR request for the whole private network and a call is presently forwarded, when the private network is subscribed to the DDI supplementary service and the AOC-E supplementary service is activated for all calls, to transfer charging information to the served user when the forwarded call is released,

sends a FACILITY message using the dummy call reference and containing in the Called party number information element the ISDN number associated with the served user and a Facility information element including an AOCECurrency or an AOCEChargingUnitInfo invoke component and remains in call state N00.

SSI_N06_02_002 subclauses 5.6, 5.5.3.1 valid mandatory Ensure that the IUT, in call state N00, having accepted a CFNR request for the whole private network and a call is presently forwarded, when the AOC-E supplementary service is activated for all calls, to transfer charging information to the served user when the forwarded call is released,

sends a FACILITY message using the dummy call reference and a Facility information element including an AOCECurrency or an AOCEChargingUnitInfo invoke component and remains in call state N00.

6.2.6.3.2 Identification of charge invoked in partial re-routeing request

Selection: IUT supports the sending of AOC-E type charging information pertaining to a forwarded call when that call is released. PICS: SC 9.1.

SSI_N06_03_001 subclauses 5.6, 5.5.3.2 valid mandatory Ensure that the IUT, in the Call Received call state N07 and diversion service Idle state while the AOC-E supplementary service is activated for all calls, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component including a RerouteingReason parameter indicating "cfnr" and an IdentificationOfCharge invoke component with a ChargingAssociation argument,

- sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallRerouteing return result component and enters call state N12.
- Selection: Network provided option "served user call retention on invocation of diversion" is "clear call on invocation of diversion"

SSI_N06_03_002 subclauses 5.6, 5.5.3.2 valid mandatory Ensure that the IUT, in the Call Received call state N07 and diversion service Idle state, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component including a RerouteingReason parameter indicating "cfnr" and a ChargingRequest invoke component with a ChargingCase parameter indicating "chargingAtTheEndOfTheCall",

sends a DISCONNECT message with cause value #31 "Normal, unspecified", a CallRerouteing return result component and a ChargingRequest return result component and enters call state N12. **Selection:** Network provided option "served user call retention on invocation of diversion" is "clear call on invocation of diversion"

SSI_N06_03_003 subclauses 5.6, 5.5.3.2 valid mandatory Ensure that the IUT, in the Call Received call state N07 and diversion service Idle state while the AOC-E supplementary service is activated for all calls, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component including a RerouteingReason parameter indicating "cfnr" and an IdentificationOfCharge invoke component with a ChargingAssociation argument,

sends a FACILITY message with a CallRerouteing return result component and remains in call state N07.

Selection: Network provided option "served user call retention on invocation of diversion" is "retain call until alerting begins at the diverted-to user"

Page 28 Draft prETS 300 195-5: June 1996

SSI_N06_03_004 subclauses 5.6, 5.5.3.2 valid mandatory

Ensure that the IUT, in the Call Received call state N07 and diversion service Idle state, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component including a RerouteingReason parameter indicating "cfnr" and a ChargingRequest invoke component with a ChargingCase parameter indicating "chargingAtTheEndOfTheCall",

sends a FACILITY message with a CallRerouteing return result component and a ChargingRequest return result component and remains in call state N07.

Selection: Network provided option "served user call retention on invocation of diversion" is "retain call until alerting begins at the diverted-to user"

SSI_N06_03_005 subclauses 5.6, 5.5.3.2 inopportune mandatory Ensure that the IUT, in the Call Received call state N07 and (diversion) Idle state, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component including a RerouteingReason parameter indicating "cfnr" and an IdentificationOfCharge invoke component with a ChargingAssociation argument, but the AOC-E supplementary service is not activated,

- sends a DISCONNECT message with cause value #31 "Normal, unspecified", a CallRerouteing return result component and an IdentificationOfCharge return error component and enters call state N12.
- Selection: Network provided option "served user call retention on invocation of diversion" is "clear call on invocation of diversion"

SSI_N06_03_006 subclauses 5.6, 5.5.3.2 inopportune mandatory

Ensure that the IUT, in the Call Received call state N07 and (diversion) Idle state, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component including a RerouteingReason parameter indicating "cfnr" and an IdentificationOfCharge invoke component with a ChargingAssociation argument, but the AOC-E supplementary service is not activated,

- sends a FACILITY message with a CallRerouteing return result component and an IdentificationOfCharge return error component and remains in call state N07.
- **Selection:** Network provided option "served user call retention on invocation of diversion" is "retain call until alerting begins at the diverted-to user"

6.2.6.3.3 Sending of charging information (partial re-routeing)

Selection: IUT supports the sending of AOC-E type charging information pertaining to a forwarded call when that call is released. PICS: SC 9.1.

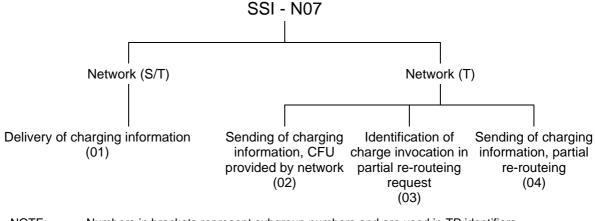
SSI_N06_04_001 subclauses 5.6, 5.5.3.2 valid mandatory Ensure that the IUT, in call state N00 but having accepted a partial re-routeing request on call forwarding no reply (IdentificationOfCharge invoke component has been received), when the AOC-E supplementary service is activated for all calls, to transfer charging information to the served user when the deflected call is released,

sends a FACILITY message using the dummy call reference and a Facility information element with an AOCECurrency or an AOCEChargingUnitInfo invoke component including the ChargingAssociation parameter and remains in call state N00.

6.2.7 Interaction between AOC and CFU

Selection: IUT supports the interaction between AOC and CFU. PICS: MC 2.23 AND (MC 2.12 OR MC 2.13 OR MC 2.14).

6.2.7.1 Test suite substructure



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

Figure 9: N07 test suite substructure - level 2

6.2.7.2 Delivery of charging information (S/T ref. point)

Selection: IUT supports the sending of AOC-E type charging information pertaining to a forwarded call when that call is released. PICS: SC 10.1.

SSI_N07_01_001subclauses 5.7, 5.5.2.1.1validmandatoryEnsure that the IUT, in call state N00, having accepted a CFU request and a call is presently forwarded,
when the served user of the CFNR operation is subscribed to the MSN supplementary service and the
AOC-E supplementary service is activated for all calls, to transfer charging information to the served user
when the forwarded call is released,

sends a FACILITY message using the dummy call reference and containing in the Called party number information element the ISDN number associated with the served user and a Facility information element including an AOCECurrency or an AOCEChargingUnitInfo invoke component and remains in call state N00.

SSI_N07_01_002subclauses 5.7, 5.5.2.1.1validmandatoryEnsure that the IUT, in call state N00, having accepted a CFU request and a call is presently forwarded,
when the AOC-E supplementary service is activated for all calls, to transfer charging information to the
served user when the forwarded call is released,

sends a FACILITY message using the dummy call reference and a Facility information element including an AOCECurrency or an AOCEChargingUnitInfo invoke component and remains in call state N00.

6.2.7.3 Delivery of charging information (T ref. point)

6.2.7.3.1 Sending of charging information (CFU provided by the network)

Selection: IUT supports the sending of AOC-E type charging information pertaining to a forwarded call when that call is released. PICS: SC 10.1.

SSI_N07_02_001 subclauses 5.7, 5.5.3.1 valid mandatory

Ensure that the IUT, in call state N00, having accepted a CFU request for the whole private network and a call is presently forwarded, when the private network is subscribed to the DDI supplementary service and the AOC-E supplementary service is activated for all calls, to transfer charging information to the served user when the forwarded call is released,

sends a FACILITY message using the dummy call reference and containing in the Called party number information element the ISDN number associated with the served user and a Facility information element including an AOCECurrency or an AOCEChargingUnitInfo invoke component and remains in call state N00.

SSI_N07_02_002 subclauses 5.7, 5.5.3.1 valid mandatory Ensure that the IUT, in call state N00, having accepted a CFU request for the whole private network and a call is presently forwarded, when the AOC-E supplementary service is activated for all calls, to transfer charging information to the served user when the forwarded call is released.

sends a FACILITY message using the dummy call reference and a Facility information element including an AOCECurrency or an AOCEChargingUnitInfo invoke component and remains in call state N00.

6.2.7.3.2 Identification of charge invoked in partial re-routeing request

Selection: IUT supports the sending of AOC-E type charging information pertaining to a forwarded call when that call is released. PICS: SC 10.1.

SSI_N07_03_001 subclauses 5.7, 5.5.3.2 valid mandatory Ensure that the IUT, in the Call Received call state N07 and diversion service Idle state while the AOC-E supplementary service is activated for all calls, receiving a valid FACILITY message containing a Facility information element including a CallRerouteing invoke component with a RerouteingReason parameter indicating "cfu" and an IdentificationOfCharge invoke component with a ChargingAssociation argument,

sends a FACILITY message with a CallRerouteing return result component and remains in call state N07.

SSI_N07_03_002 subclauses 5.7, 5.5.3.2 valid mandatory Ensure that the IUT, in the Call Received call state N07 and diversion service Idle state, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component including a RerouteingReason parameter indicating "cfu" and a ChargingRequest invoke component with a ChargingCase parameter indicating "chargingAtTheEndOfTheCall",

sends a FACILITY message with a CallRerouteing return result component and a ChargingRequest return result component and remains in call state N07.

SSI_N07_03_003 subclauses 5.7, 5.5.3.2 inopportune mandatory Ensure that the IUT, in the Call Received call state N07 and (diversion) Idle state, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component including a RerouteingReason parameter indicating "cfu" and an IdentificationOfCharge invoke component with a ChargingAssociation argument, but the AOC-E supplementary service is not activated,

sends a FACILITY message with a CallRerouteing return result component and an IdentificationOfCharge return error component and remains in call state N07.

6.2.7.3.3 Sending of charging information (partial re-routeing)

Selection: IUT supports the sending of AOC-E type charging information pertaining to a forwarded call when that call is released. PICS: SC 10.1.

SSI_N07_04_001 subclauses 5.7, 5.5.3.2 valid mandatory Ensure that the IUT, in call state N00 but having accepted a partial re-routeing request on call forwarding unconditionally (IdentificationOfCharge invoke component has been received), when the AOC-E supplementary service is activated for all calls, to transfer charging information to the served user when the deflected call is released,

sends a FACILITY message using the dummy call reference and a Facility information element with an AOCECurrency or an AOCEChargingUnitInfo invoke component including the ChargingAssociation parameter and remains in call state N00.

6.2.8 Interaction between AOC and 3PTY

This subclause refers to ETS 300 195-1 [4], subclause 5.8.

No test purpose related to the specified supplementary service interaction can be defined as there are no requirements defined for the user in ETS 300 195-1 [4], subclause 5.8.

6.2.9 Interaction between AOC and CONF

Selection: IUT supports the interaction between AOC and CONF. PICS: MC 2.18 AND (MC 2.12 OR MC 2.13 OR MC 2.14).

6.2.9.1 Test suite substructure

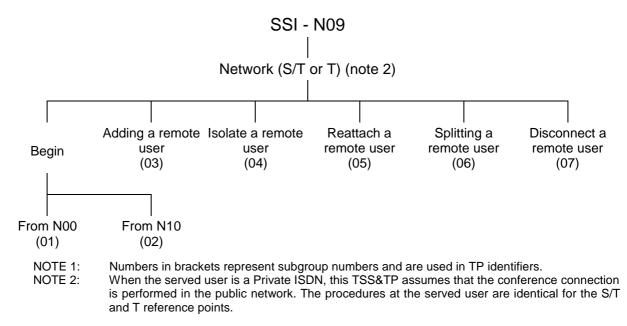


Figure 10: N09 test suite substructure - level 2

6.2.9.2 **Begin conference from N00**

Selection: IUT supports the sending of AOC charging information in conjunction with the CONF supplementary service. PICS: SC 12.1.

SSI_N09_01_001 subclause 5.9.2.1 valid mandatory Ensure that the IUT, in call state N00 receiving a SETUP message with a Facility information element including a BeginCONF invoke component and a ChargingRequest invoke component with a ChargingCase parameter indicating "chargingInformationAtCallSetup",

proceeds in the way which is specified for the CONF supplementary service (CONF_N01_001) and includes in a call control or a FACILITY message a Facility information element a ChargingRequest return result component with an AOCSCurrencyInfoList or an AOCSSpecialArrInfo parameter.

SSI N09 01 002 subclause 5.9.2.1 valid mandatory Ensure that the IUT, in call state N00 receiving a SETUP message with a Facility information element including a BeginCONF invoke component and a ChargingRequest invoke component with a ChargingCase parameter indicating "chargingDuringACall",

proceeds in the way which is specified for the CONF supplementary service (CONF N01 001) and includes in a call control or a FACILITY message a Facility information element a ChargingRequest return result component indicating "chargingInfoFollows".

SSI N09 01 003 subclause 5.9.2.1 valid mandatorv Ensure that the IUT, in call state N00 receiving a SETUP message with a Facility information element including a BeginCONF invoke component and a ChargingRequest invoke component with a ChargingCase parameter indicating "chargingAtEndOfCall",

proceeds in the way which is specified for the CONF supplementary service (CONF N01 001) and includes in a call control or a FACILITY message a Facility information element a ChargingRequest return result component indicating "chargingInfoFollows".

6.2.9.3 **Begin conference from N10**

Selection: IUT supports beginning of the conference from the Active call state N10. PICS: AOC [3] MC 4.2.

SSI N09 02 001 subclause 5.9.2.1 valid mandatory Ensure that the IUT, in call state N10 receiving a FACILITY message with a Facility information element including a BeginCONF invoke component and a ChargingRequest invoke component with a ChargingCase parameter indicating "chargingInformationAtCallSetup",

proceeds in the way which is specified for the CONF supplementary service (CONF N02 001) and includes in a FACILITY message a Facility information element including a ChargingReguest return result component with an AOCSCurrencyInfoList or an AOCSSpecialArrInfo parameter.

Selection: IUT supports the sending of AOC charging information in conjunction with the CONF supplementary service. PICS: SC 12.1.

SSI_N09_02_002 subclause 5.9.2.1 Ensure that the IUT, in call state N10 receiving a FACILITY message with a Facility information element including a BeginCONF invoke component and a ChargingRequest invoke component with a ChargingCase parameter indicating "chargingDuringACall",

proceeds in the way which is specified for the CONF supplementary service (CONF_N02_001) and includes in a FACILITY message a Facility information element with a ChargingRequest return result component.

Selection: IUT supports the sending of AOC charging information in conjunction with the CONF supplementary service. PICS: SC 12.1.

valid

mandatory

mandatory

SSI_N09_02_003 subclause 5.9.2.1

Ensure that the IUT, in call state N10 receiving a FACILITY message with a Facility information element including a BeginCONF invoke component and a ChargingRequest invoke component with a ChargingCase parameter indicating "chargingAtTheEndOfCall",

proceeds in the way which is specified for the CONF supplementary service (CONF_N02_001) and includes in a FACILITY message a Facility information element with a ChargingRequest return result component

valid

Selection: IUT supports the sending of AOC charging information in conjunction with the CONF supplementary service. PICS: SC 12.1.

SSI_N09_02_004 subclause 5.9.2.2 inopportune mandatory Ensure that the IUT, in call state N10 receiving a SETUP message with a Facility information element including a BeginCONF invoke component and a ChargingRequest invoke component while the network does not support the AOC supplementary service in conjunction with the CONF supplementary service,

proceeds in the way which is specified for the CONF supplementary service (CONF_N01_001) and includes in a call control or a FACILITY message a Facility information element with a ChargingRequest return error component indicating "notAvailable".

Selection: IUT does not support the sending of AOC charging information in conjunction with the CONF supplementary service. PICS: NOT SC 12.1.

SSI_N09_02_005 subclause 5.9.2.2 inopportune mandatory

Ensure that the IUT, in call state N10 receiving a SETUP message with a Facility information element including a BeginCONF invoke component and a ChargingRequest invoke component while the network cannot accept the conference request,

proceeds in the way which is specified for the CONF supplementary service (CONF_N01_003, 004, 005, 006) and includes in a call control or a FACILITY message a Facility information element with a ChargingRequest return error component indicating "notAvailable".

Selection: IUT supports the sending of AOC charging information in conjunction with the CONF supplementary service. PICS: SC 12.1.

6.2.9.4 Adding a remote user

Selection: IUT supports the sending of AOC charging information in conjunction with the CONF supplementary service. PICS: SC 12.1.

SSI_N09_03_001subclause 5.9.2.2invalidmandatoryEnsure that the IUT, in call state N10 (SCRef and CCRef) receiving a FACILITY message for SCRef with
a Facility information element including an AddCONF invoke component and a ChargingRequest invoke
component,

proceeds in the way which is specified for the CONF supplementary service (CONF_N03_001) and includes in a FACILITY message for SCRef a Facility information element with a ChargingRequest return error component indicating "notAvailable".

6.2.9.5 Isolate a remote user

Selection: IUT supports the sending of AOC charging information in conjunction with the CONF supplementary service. PICS: SC 12.1.

SSI_N09_04_001subclause 5.9.2.2invalidmandatoryEnsure that the IUT, in call state N10 (CCRef) receiving a FACILITY message with a Facility information
element including an IsolateCONF invoke component and a ChargingRequest invoke component,
proceeds in the way which is specified for the CONF supplementary service (CONF_N04_001) and

includes in a FACILITY message a Facility information element with a ChargingRequest return error component indicating "notAvailable".

6.2.9.6 Reattach a remote user

Selection: IUT supports the sending of AOC charging information in conjunction with the CONF supplementary service. PICS: SC 12.1.

SSI_N09_05_001subclause 5.9.2.2invalidmandatoryEnsure that the IUT, in call state N10 (CCRef), when a remote user of the conference has previously been
isolated, receiving a FACILITY message with a Facility information element including a ReattachCONF
invoke component and a ChargingRequest invoke component,

proceeds in the way which is specified for the CONF supplementary service (CONF_N05_001) and includes in a FACILITY message a Facility information element with a ChargingRequest return error component indicating "notAvailable".

6.2.9.7 Splitting a remote user

Selection: IUT supports the sending of AOC charging information in conjunction with the CONF supplementary service. PICS: SC 12.1.

SSI_N09_06_001 subclause 5.9.2.1 valid mandatory

Ensure that the IUT, in call state N10 (SCRef and CCRef), where the call associated with SCRef is related to a remote user that has been split from the conference, for which the AOC-D supplementary service has been activated, to send cumulative charging information,

sends a FACILITY message with a Facility information element including an AOCDCurrency or an AOCDChargingUnit invoke component and remains in the same call states.

SSI_N09_06_002subclause 5.9.2.1validmandatoryEnsure that the IUT, in call state N10 (SCRef and CCRef), where the call associated with SCRef is relatedto a remote user that has been split from the conference, for which the AOC-S supplementary service hasbeen activated, receiving a DISCONNECT message,

sends a RELEASE message with a Facility information element including an AOCSCurrency or an AOCSSpecialArr invoke component and enters call state N19 for SCRef and remains in call state N10 for CCRef.

Selection: AOC-S in clearing phase supported. PICS: AOC [2] MC 16.

SSI_N09_06_003 subclause 5.9.2.1 valid mandatory Ensure that the IUT, in call state N10 (SCRef and CCRef), where the call associated with SCRef is related to a remote user that has been split from the conference, for which the AOC-S supplementary service has been activated, to indicate that the remote user has terminated the call,

sends a DISCONNECT message with a Facility information element including an AOCSCurrency or an AOCSSpecialArr invoke component and enters call state N11 for SCRef and remains in call state N10 for CCRef.

Selection: AOC-S in clearing phase supported. PICS: AOC [2] MC 16.

SSI_N09_06_004subclause 5.9.2.1validmandatoryEnsure that the IUT, in call state N10 (SCRef and CCRef), where the call associated with SCRef is relatedto a remote user that has been split from the conference, for which the AOC-D supplementary service hasbeen activated, receiving a DISCONNECT message,

sends a RELEASE message with a Facility information element including an AOCDCurrency or an AOCDChargingUnit invoke component with the TypeOfChargingInfo parameter indicating "total" and enters call state N19 for SCRef and remains in call state N10 for CCRef.

SSI_N09_06_005 subclause 5.9.2.1 valid mandatory Ensure that the IUT, in call state N10 (SCRef and CCRef), where the call associated with SCRef is related to a remote user that has been split from the conference, for which the AOC-D supplementary service has been activated, to indicate that the remote user has terminated the call.

sends a DISCONNECT message with a Facility information element including an AOCDCurrency or an AOCDChargingUnitinvoke component with the TypeOfChargingInfo parameter indicating "total" and enters call state N11 for SCRef and remains in call state N10 for CCRef. SSI_N09_06_006subclause 5.9.2.1validmandatoryEnsure that the IUT, in call state N10 (SCRef and CCRef), where the call associated with SCRef is relatedto a remote user that has been split from the conference, for which the AOC-E supplementary service has

been activated, receiving a DISCONNECT message, sends a RELEASE message with a Facility information element including an AOCECurrency or an AOCEChargingUnit invoke component and enters call state N19 for SCRef and remains in call state N10 for CCRef.

SSI_N09_06_007 subclause 5.9.2.1 valid mandatory Ensure that the IUT, in call state N10 (SCRef and CCRef), where the call associated with SCRef is related to a remote user that has been split from the conference, for which the AOC-E supplementary service has been activated, to indicate that the remote user has terminated the call,

sends a DISCONNECT message with a Facility information element including an AOCECurrency or an AOCEChargingUnitinvoke component and enters call state N11 for SCRef and remains in call state N10 for CCRef.

SSI_N09_06_008 subclause 5.9.2.2 invalid mandatory Ensure that the IUT, in call state N10 (CCRef), receiving a SETUP message with a Facility information element including an SplitCONF invoke component and a ChargingRequest invoke component,

proceeds in the way which is specified for the CONF supplementary service (CONF_N06_001) and includes in a call control or a FACILITY message a Facility information element with a ChargingRequest return error component indicating "notAvailable".

6.2.9.8 Disconnect a remote user

Selection: IUT supports the sending of AOC charging information in conjunction with the CONF supplementary service. PICS: SC 12.1.

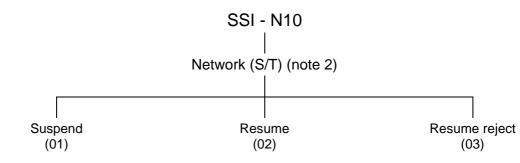
SSI_N09_07_001subclause 5.9.2.2invalidmandatoryEnsure that the IUT, in call state N10 (CCRef) receiving a FACILITY message with a Facility information
element including a DropCONF invoke component and a ChargingRequest invoke component,
proceeds in the way which is specified for the CONF supplementary service (CONF_N07_001) and

includes in a FACILITY message a Facility information element with a ChargingRequest return error component indicating "notAvailable".

6.2.10 Interaction between AOC and TP

Selection: IUT supports the interaction between AOC and TP. PICS: MC 2.5 AND (MC 2.12 OR MC 2.13 OR MC 2.14).

6.2.10.1 Test suite substructure



NOTE 1: Numbers in brackets represent subgroup numbers and are used in TP identifiers.
 NOTE 2: When the served user is a Private ISDN, only notifications are passed between the user and the network. As notifications are not suitable for support of AOC services, no case for AOC/Terminal Portability interaction arises at the T reference point.

Figure 11: N10 test suite substructure - level 2

6.2.10.2 Suspending a call

Selection: IUT supports sending of AOC-D charging information in the SUSPEND ACKNOWLEDGE message. PICS: SC 1.1.

SSI_N10_01_001subclause 5.10.2.1.1validmandatoryEnsure that the IUT in call state N10 and in the AOC-D activated state, receiving a valid SUSPENDmessage,

sends a SUSPEND ACKNOWLEDGE message containing a Facility information element including an AOCDCurrency or an AOCDChargingUnitInfo invoke component with the TypeOfChargingInfo parameter encoded as "subTotal" and enters call state N00.

SSI_N10_01_002 subclause 5.10.2.1.1 valid optional Ensure that the IUT in call state N10 and in the AOC-D activated state, receiving a valid SUSPEND message while charging information is not available,

sends a SUSPEND ACKNOWLEDGE message containing a Facility information element including an AOCDCurrency or an AOCDChargingUnitInfo invoke component indicating "chargeNotAvailable" and enters call state N00.

6.2.10.3 Resuming a call

Selection: IUT supports sending of AOC-D charging information in the RESUME ACKNOWLEDGE message. PICS: SC 1.2.

SSI_N10_02_001subclause 5.10.2.2.1validmandatoryEnsure that the IUT in call state N00, receiving a valid RESUME message while AOC-D is activated for
the corresponding suspended call,

sends a RESUME ACKNOWLEDGE message containing a Facility information element including an AOCDCurrency or an AOCDChargingUnitInfo invoke component with a TypeOfChargingInfo parameter indicating "subTotal" and enters call state N10.

SSI_N10_02_002 subclause 5.10.2.2.1 valid optional Ensure that the IUT in call state N00, receiving a valid RESUME message while AOC-D is activated for the corresponding suspended call, while charging information is not available,

sends a RESUME ACKNOWLEDGE message containing a Facility information element including an AOCDCurrency or an AOCDChargingUnitInfo invoke component indicating "chargeNotAvailable" and enters call state N10.

6.2.10.4 Unsuccessful attempt of resuming a call

Selection: IUT supports sending of AOC-D charging information in the RESUME REJECT message. PICS: SC 1.3.

SSI_N10_03_001subclause 5.10.2.2.1validmandatoryEnsure that the IUT in call state N00, receiving a valid RESUME message while AOC-D is activated for
the corresponding suspended call and the network cannot resume the call because the remote user has
disconnected during the call was suspended,

sends a RESUME REJECT message containing a Facility information element including an AOCDCurrency or an AOCDChargingUnitInfo invoke component with the TypeOfChargingInfo parameter indicating "total" and remains in call state N00.

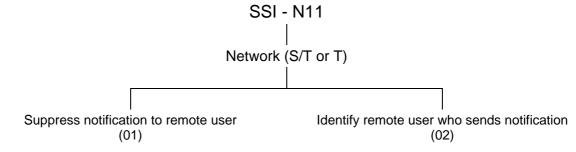
SSI_N10_03_002subclause 5.10.2.2.1validmandatoryEnsure that the IUT in call state N00, receiving a valid RESUME message while AOC-E is activated for
the corresponding suspended call and the network cannot resume the call because the remote user has
disconnected during the call was suspended,

sends a RESUME REJECT message containing a Facility information element including an AOCECurrency or an AOCEChargingUnitInfo invoke component and remains in call state N00.

6.2.11 Interaction between CONF and HOLD

Selection: IUT supports the interaction between CONF and HOLD. PICS: MC 2.25 AND (MC 2.12 OR MC 2.13 OR MC 2.14).

6.2.11.1 Test suite substructure



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

Figure 12: N11 test suite substructure - level 2

6.2.11.2 Suppress notification to remote user

SSI_N11_01_001subclause 5.11.2.1.1validoptionalEnsure that the IUT in call state N10, while this call is associated with a remote user of a conference,
when the served user of this conference puts the conference call on hold,
does not send any notifications and remains in call state N10.optional

SSI_N11_01_002subclause 5.11.2.1.1validoptionalEnsure that the IUT in call state N10, while this call is associated with a remote user of a conference,
when the served user of this conference retrieves the previously held conference call,
does not send any notifications and remains in call state N10.optional

6.2.11.3 Identify remote user who sends a notification

SSI_N11_02_001subclause 5.11.2.2.1validmandatoryEnsure that the IUT in call state N10 (CCRef), to indicate that a remote user of this conference puts its call
on hold,

sends a FACILITY message including a Notification indicator indicating "Remote hold" and a Facility information element containing an IdentifyConferee invoke component with the Partyld parameter indicating that remote user and remains in call state N10.

SSI_N11_02_002subclause 5.11.2.2.1validmandatoryEnsure that the IUT in call state N10 (CCRef), to indicate that a remote user of this conference retrieves its previously held call,

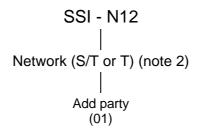
sends a FACILITY message including a Notification indicator indicating "Remote retrieval" and a Facility information element containing an IdentifyConferee invoke component with the Partyld parameter indicating that remote user and remains in call state N10.

Page 38 Draft prETS 300 195-5: June 1996

6.2.12 Interaction between CONF and CUG supplementary service

Selection: IUT supports the interaction between CONF and CUG. PICS: MC 2.18 AND MC 2.8.

6.2.12.1 Test suite substructure



NOTE 1: Numbers in brackets represent subgroup numbers and are used in TP identifiers.
 NOTE 2: When the served user is a Private ISDN, this TSS&TP assumes that the conference connection is performed in the public network. The procedures at the served user are identical for the S/T and T reference points.

Figure 13: N12 test suite substructure - level 2

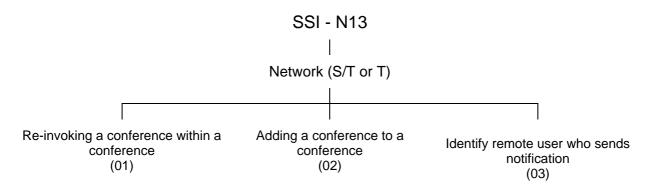
6.2.12.2 Add party to the conference

SSI_N12_01_001 subclause 5.12.2.1.2 inopportune mandatory Ensure that the IUT in call state N10 (SCRef and CCRef) receiving a FACILITY message (SCRef) with a Facility information element including an AddCONF invoke component while the call associated with SCRef is not a member of the closed user group of the conference (as defined by the first call of the conference),

sends a FACILITY message with a Facility information element including an AddCONF return error component indicating "supplementaryServiceInteractionNotAllowed" and remains in call state N10 (CCRef and SCRef).

6.2.13 Interaction between CONF and CONF

6.2.13.1 Test suite substructure



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

Figure 14: N13 test suite substructure - level 2

Selection: IUT supports the interaction between CONF and CONF. PICS: MC 2.18.

6.2.13.2 Re-invoking a conference within a conference

SSI_N13_01_001 subclause 5.13.2.1.2 inopportune mandatory

Ensure that the IUT in call state N10 receiving a FACILITY message with a Facility information element including a BeginCONF invoke component while this call is already a conference call,

sends a FACILITY message with a Facility information element including an BeginCONF return error component indicating "notAvailable" and remains in call state N10.

6.2.13.3 Adding a conference to a conference

SSI_N13_02_001 subclause 5.13.2.2.2 inopportune mandatory Ensure that the IUT, in call state N10 (SCRef and CCRef) receiving a FACILITY message (SCRef) with a Facility information element including an AddCONF invoke component while the call associated with SCRef is a conference call,

sends a FACILITY message (SCRef) with a Facility information element including an AddCONF return error component indicating "notAllowed" and remains in call state N10 (CCRef and SCRef).

6.2.13.4 Identify remote user who sends notifications

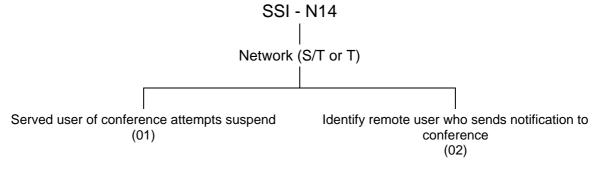
SSI_N13_03_001 subclause 5.13.2.3.1 valid mandatory Ensure that the IUT, in call state N10 (CCRef), to indicate that a remote user uses the CONF supplementary service,

sends a FACILITY message including a Notification indicator and a Facility information element containing an IdentifyConferee invoke component with a Partyld parameter indicating that remote user and remains in call state N10.

6.2.14 Interaction between CONF and TP

Selection: IUT supports the interaction between CONF and TP. PICS: MC 2.18 AND MC 2.5.

6.2.14.1 Test suite substructure



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

Figure 15: N14 test suite substructure - level 2

6.2.14.2 Served user of conference attempts suspend

SSI_N14_01_001 subclause 5.14.2.1.2 inopportune mandatory

Ensure that the IUT, in call state N10 (CCRef), receiving a SUSPEND message, sends a SUSPEND REJECT message containing cause value #29, "facility rejected" and remains in the same call state.

SSI_N14_01_002 subclause 5.14.2.1.2 inopportune mandatory

Ensure that the IUT, in call state N10, receiving a SUSPEND message while another call at the same CEI is a conference call,

sends a SUSPEND REJECT message containing cause value #29, "facility rejected" and remains in the same call state.

6.2.14.3 Identify remote user who sends notification to conference

SSI N14 02 001 subclause 5.14.2.2.1 mandatory Ensure that the IUT in call state N10 (CCRef), to indicate that a remote user of this conference suspends its call.

sends a FACILITY message including a Notification indicator indicating "User suspended" and a Facility information element containing an IdentifyConferee invoke component with the Partyld parameter indicating that remote user and remains in call state N10.

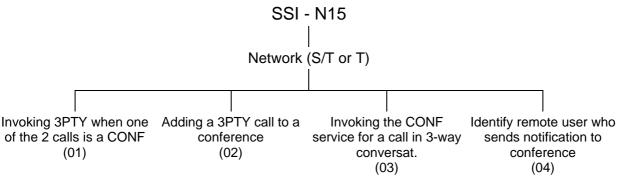
SSI_N11_02_002 subclause 5.11.2.2.1 valid mandatory Ensure that the IUT in call state N10 (CCRef), to indicate that a remote user of this conference resumes its previously suspended call,

sends a FACILITY message including a Notification indicator indicating "User resumed" and a Facility information element containing an IdentifyConferee invoke component with the Partyld parameter indicating that remote user and remains in call state N10.

6.2.15 Interaction between CONF and 3PTY

Selection: IUT supports the interaction between CONF and 3PTY. PICS: MC 2.18 AND MC 2.11.

6.2.15.1 Test suite substructure



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

Figure 16: N15 test suite substructure - level 2

6.2.15.2 Invoking 3PTY when one of the two calls is a conference

SSI_N15_01_001 subclause 5.15.2.1.2 mandatory inopportune Ensure that the IUT with CR1 in state N10 (Held) and CR2 in state N10 (Idle), while the call associated with CR1 is a conference call, receiving a FACILITY message for CR1 containing a Facility information element with a Begin3PTY invoke component,

responds with a FACILITY message for CR1 including a Facility information element containing a Begin3PTY return error component indicating "supplementaryServiceInteractionNotAllowed" and remains in the same call states.

SSI N15 01 002 subclause 5.15.2.1.2 inopportune mandatory Ensure that the IUT with CR1 in state N10 (Held) and CR2 in state N10 (Idle), while the call associated with CR2 is a conference call, receiving a FACILITY message for CR1 containing a Facility information element with a Begin3PTY invoke component.

responds with a FACILITY message for CR1 including a Facility information element containing a Begin3PTY return error component indicating "supplementaryServiceInteractionNotAllowed" and remains in the same call states.

valid

mandatory

6.2.15.3 Adding a 3PTY call to a conference

SSI_N15_02_001 subclause 5.15.2.2.2 inopportune mandatory Ensure that the IUT in call state N10 (SCRef and CCRef), while the call associated with SCRef is part of a three-way conversation, receiving a FACILITY message (SCRef) with a Facility information element including an AddCONF invoke component.

sends a FACILITY message with a Facility information element including an AddCONF return error component indicating "supplementaryServiceInteractionNotAllowed" and remains in the same call states.

6.2.15.4 Invoking the CONF service for a call in 3-way conversation

SSI_N15_03_001 subclause 5.15.2.3.2 inopportune mandatory Ensure that the IUT in the 3PTY Active state with CR1 in state N10 (Held) and CR2 in state N10 (Idle), receiving a FACILITY message for CR1 containing a Facility information element with a BeginCONF invoke component,

responds with a FACILITY message for CR1 including a Facility information element containing a BeginCONF return error component indicating "supplementaryServiceInteractionNotAllowed" and remains in the same call states.

SSI_N15_03_002 subclause 5.15.2.1.2 inopportune mandatory

Ensure that the IUT in the 3PTY Active state with CR1 in state N10 (Held) and CR2 in state N10 (Idle), receiving a FACILITY message for CR2 containing a Facility information element with a BeginCONF invoke component,

responds with a FACILITY message for CR2 including a Facility information element containing a BeginCONF return error component indicating "supplementaryServiceInteractionNotAllowed" and remains in the same call states.

6.2.15.5 Identify remote user who sends notification to conference

SSI_N15_04_001 subclause 5.15.2.4.1 valid

Ensure that the IUT in call state N10 (CCRef), to indicate that a remote user of this conference uses the 3PTY supplementary service,

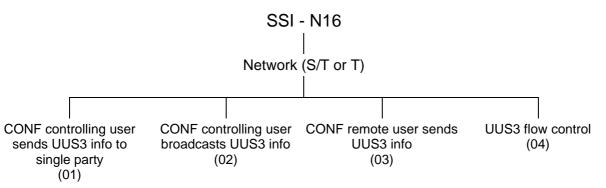
sends a FACILITY message including a Notification indicator and a Facility information element containing an IdentifyConferee invoke component with the Partyld parameter indicating that remote user and remains in call state N10.

Page 42 Draft prETS 300 195-5: June 1996

6.2.16 Interaction between CONF and UUS service 3

Selection: IUT supports the interaction between CONF and UUS. PICS: MC 2.18 AND MC 2.9.

6.2.16.1 Test suite substructure



NOTE 1: Numbers in brackets represent subgroup numbers and are used in TP identifiers.
 NOTE 2: Activation and deactivation of the UUS3 supplementary service concern the individual calls from which the conference is constructed, or which are obtained by splitting a party from the conference. UUS3 activation TPs are fully covered in the corresponding supplementary services standard, i.e. no additional activation TPs are required in the frame of CONF-UUS3 interactions TP.

Figure 17: N16 test suite substructure - level 2

6.2.16.2 CONF controlling user sends UUS3 info to single party

SSI_N16_01_001 subclause 5.16.2.2.1 valid mandatory Ensure that the IUT, in call state N10, where the call is a conference call, receiving a USER INFORMATION message with a Facility information element including an IdentifyConferee invoke component including a Partyld parameter and UUS3 is activated for the communication to the corresponding remote user,

accepts the user information (resulting in the sending of a USER INFORMATION message without the Facility information element containing the IdentifyConferee invoke component to the indicated remote user) and remains in the same call state.

6.2.16.3 CONF controlling user broadcasts UUS3 info

SSI_N16_02_001subclause 5.16.2.2.1validmandatoryEnsure that the IUT, in call state N10, where the call is a conference call, receiving a USERINFORMATION message and UUS3 is activated for communication to at least one of the remote parties,
accepts the user information (resulting in the sending of a USER INFORMATION message to the
remote users, for which the UUS3 service is activated) and remains in the same call state.

6.2.16.4 CONF remote user sends UUS3 info

SSI_N16_03_001subclause 5.16.2.2.1validmandatoryEnsure that the IUT, in call state N10, to indicate that a remote user, for which UUS3 is activated, has sent
a USER INFORMATION message,USER INFORMATION message,

sends a USER INFORMATION message with a Facility information element including a IdentifyConferee invoke component with a Partyld parameter identifying this remote user and remains in the same call state.

6.2.16.5 Flow control

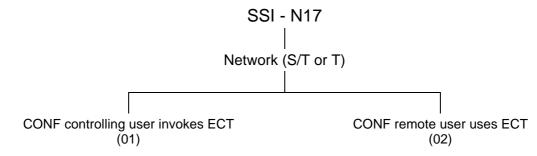
SSI_N16_04_001subclause 5.16.2.3.1validmandatoryEnsure that the IUT, in call state N10, where the call is a conference call, when the remote users of the
conference have sent more than the maximum limit (for one access) of USER INFORMATION messages
within a time shorter than the T2-UUS3,

sends all the USER INFORMATION messages and remains in the same call state.

6.2.17 Interaction between CONF and ECT

Selection: IUT supports the interaction between CONF and ECT. PICS: MC 2.18 AND MC 2.20.

6.2.17.1 Test suite substructure



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

Figure 18: N17 test suite substructure - level 2

6.2.17.2 CONF controlling user invokes ECT

SSI_N17_01_001 subclause 5.17.2.1.2 inopportune mandatory Ensure that the IUT, with CR1 in state N10 (Held) and CR2 in state N10 (Idle), receiving a FACILITY message for CR1 containing a Facility information element with an EctExecute invoke component while the call associated with CR1 is a conference call,

sends a FACILITY message for CR1 containing a Facility information element including an EctExecute return error component indicating "supplementaryServiceInteractionNotAllowed" and remains in the same call states.

SSI_N17_01_002 subclause 5.17.2.1.2 inopportune mandatory Ensure that the IUT, with CR1 in state N10 (Held) and CR2 in state N10 (Idle), receiving a FACILITY message for CR1 containing a Facility information element with an EctExecute invoke component while the call associated with CR2 is a conference call,

sends a FACILITY message for CR1 containing a Facility information element including an EctExecute return error component indicating "supplementaryServiceInteractionNotAllowed" and remains in the same call states.

SSI_N17_01_003 subclause 5.17.2.1.2 inopportune mandatory Ensure that the IUT, with CR1 in state N10 (Held) and CR2 in state N10 (Idle), and CR3 in state N10 (Idle), when a LinkId has been successfully requested, receiving a valid FACILITY message for CR1 containing a Facility information element with an ExplicitEctExecute invoke component while the call associated with CR1 is a conference call,

sends a FACILITY message for CR1 containing a Facility information element including an EctExecute return error component indicating "supplementaryServiceInteractionNotAllowed" and remains in the same call states.

SSI_N17_01_004 subclause 5.17.2.1.2 inopportune mandatory Ensure that the IUT, with CR1 in state N10 (Held) and CR2 in state N10 (Idle), and CR3 in state N10 (Idle), when a LinkId has been successfully requested, receiving a valid FACILITY message for CR1 containing a Facility information element with an ExplicitEctExecute invoke component while the call associated with CR2 is a conference call,

sends a FACILITY message for CR1 containing a Facility information element including an ExplicitEctExecute return error component indicating "supplementaryServiceInteractionNotAllowed" and remains in the same call states.

6.2.17.3 CONF remote user uses ECT

SSI_N17_02_001 subclause 5.17.2.2.1 valid mandatory Ensure that the IUT in call state N10 (CCRef), to indicate that a remote user of this conference uses the ECT supplementary service,

sends a FACILITY message including a Notification indicator and in one or more Facility information elements a RequestSubaddress invoke component and an IdentifyConferee invoke component with the Partyld parameter indicating that remote user and remains in call state N10.

6.2.18 Interaction between CD and COLP

This interaction is covered by clause 9.2.3.1 of the Diversion supplementary services base standard ETS 300 207-1 [3]. Reference is made to the corresponding TPs in ETS 300 207-5 [8].

6.2.19 Interaction between CD and COLR

This interaction is covered by clause 9.2.3.1 of the Diversion supplementary services base standard ETS 300 207-1 [3]. Reference is made to the corresponding TPs in ETS 300 207-5 [8].

6.2.20 Interaction between CD and UUS

Selection: IUT supports the interaction between CD and UUS. PICS: MC 2.24 AND MC 2.9.

6.2.20.1 Test suite substructure

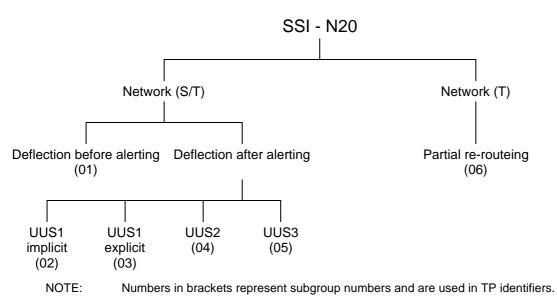


Figure 19: N20 test suite substructure - level 2

6.2.20.2 Deflection before alerting (S/T ref. point)

SSI_N20_01_001 subclause 5.20.2.1.1 valid mandatory Ensure that the IUT, in call state N09 and the diversion service Idle state while UUS1 was requested implicitly in the incoming call request, receiving a valid FACILITY message containing a Facility information element with a CallDeflection invoke component,

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallDeflection return result component and enters call state N12 or sends a FACILITY message with a CallDeflection return result component and remains in call state N09 and deflects the UUS request (resulting in the sending of a SETUP message containing a User-user information element to the deflected-to user).

Selection: Network does not support the restriction of the deflection of User-user information element with User information and/or UUS supplementary service requests to deflecting users who subscribe to the relevant UUS supplementary service. PICS: SC 2.1.

SSI_N20_01_002 subclause 5.20.2.1.1 valid mandatory Ensure that the IUT, in call state N09 and the diversion service Idle state while UUS1 was requested explicitly in the incoming call request, receiving a valid FACILITY message containing a Facility information element with a CallDeflection invoke component,

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallDeflection return result component and enters call state N12 or sends a FACILITY message with a CallDeflection return result component and remains in call state N09 and deflects the UUS request (resulting in the sending of a SETUP message containing a Facility information element with a UserUserService invoke component indicating "service1" to the deflected-to user).

Selection: Network does not support the restriction of the deflection of User-user information element with User information and/or UUS supplementary service requests to deflecting users who subscribe to the relevant UUS supplementary service. PICS: SC 2.1.

SSI_N20_01_003 subclause 5.20.2.1.1 valid mandatory

Ensure that the IUT, in call state N09 and the diversion service Idle state while UUS2 was requested in the incoming call request, receiving a valid FACILITY message containing a Facility information element with a CallDeflection invoke component,

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallDeflection return result component and enters call state N12 or sends a FACILITY message with a CallDeflection return result component and remains in call state N09 and deflects the UUS request (resulting in the sending of a SETUP message containing a Facility information element with a UserUserService invoke component indicating "service2" to the deflected-to user).

Selection: Network does not support the restriction of the deflection of User-user information element with User information and/or UUS supplementary service requests to deflecting users who subscribe to the relevant UUS supplementary service. PICS: SC 2.1.

SSI_N20_01_004 subclause 5.20.2.1.1 valid mandatory

Ensure that the IUT, in call state N09 and the diversion service Idle state while UUS3 was requested in the incoming call request, receiving a valid FACILITY message containing a Facility information element with a CallDeflection invoke component,

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallDeflection return result component and enters call state N12 or sends a FACILITY message with a CallDeflection return result component and remains in call state N09 and deflects the UUS request (resulting in the sending of a SETUP message containing a Facility information element with a UserUserService invoke component indicating "service3" to the deflected-to user).

Selection: Network does not support the restriction of the deflection of User-user information element with User information and/or UUS supplementary service requests to deflecting users who subscribe to the relevant UUS supplementary service. PICS: SC 2.1.

SSI_N20_01_005 subclauses 5.20.2.1.1 inc

inopportune mandatory

Ensure that the IUT, in call state N09 and the diversion service Idle state while UUS1 was requested implicitly in the incoming call request and the deflecting user has not subscribed to this UUS supplementary service, receiving a valid FACILITY message containing a Facility information element with a CallDeflection invoke component,

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallDeflection return result component and enters call state N12 or sends a FACILITY message with a CallDeflection return result component and remains in call state N09 and does not deflect the UUS request (resulting in the sending of a SETUP message without a User-user information element to the deflected-to user).

Selection: The network supports the restriction of the deflection of User-user information element with User information and/or UUS supplementary service requests to deflecting users who subscribe to the relevant UUS supplementary service. PICS: SC 2.1.

SSI_N20_01_006 subclauses 5.20.2.1.1 inopportune mandatory Ensure that the IUT, in call state N09 and the diversion service Idle state while UUS1 was requested explicitly as preferred in the incoming call request and the deflecting user has not subscribed to this UUS supplementary service, receiving a valid FACILITY message containing a Facility information element with a CallDeflection invoke component.

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallDeflection return result component and enters call state N12 or sends a FACILITY message with a CallDeflection return result component and remains in call state N09 and does not deflect the UUS request (resulting in the sending of a SETUP message without a UserUserService invoke component to the deflected-to user).

Selection: The network supports the restriction of the deflection of User-user information element with User information and/or UUS supplementary service requests to deflecting users who subscribe to the relevant UUS supplementary service. PICS: SC 2.1.

SSI_N20_01_007 subclauses 5.20.2.1.1 inopportune mandatory

Ensure that the IUT, in call state N09 and the diversion service Idle state while UUS2 was requested as preferred in the incoming call request and the deflecting user has not subscribed to this UUS supplementary service, receiving a valid FACILITY message containing a Facility information element with a CallDeflection invoke component,

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallDeflection return result component and enters call state N12 or sends a FACILITY message with a CallDeflection return result component and remains in call state N09 and does not deflect the UUS request (resulting in the sending of a SETUP message without a UserUserService invoke component to the deflected-to user).

Selection: The network supports the restriction of the deflection of User-user information element with User information and/or UUS supplementary service requests to deflecting users who subscribe to the relevant UUS supplementary service. PICS: SC 2.1.

SSI_N20_01_008 subclauses 5.20.2.1.1 inopportune mandatory

Ensure that the IUT, in call state N09 and the diversion service Idle state while UUS3 was requested as preferred in the incoming call request and the deflecting user has not subscribed to this UUS supplementary service, receiving a valid FACILITY message containing a Facility information element with a CallDeflection invoke component,

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallDeflection return result component and enters call state N12 or sends a FACILITY message with a CallDeflection return result component and remains in call state N09 and does not deflect the UUS request (resulting in the sending of a SETUP message without a UserUserService invoke component to the deflected-to user).

Selection: The network supports the restriction of the deflection of User-user information element with User information and/or UUS supplementary service requests to deflecting users who subscribe to the relevant UUS supplementary service. PICS: SC 2.1.

SSI_N20_01_009 subclauses 5.20.2.1.1, 5.20.2.1.2 inopportune mandatory Ensure that the IUT, in call state N09 and the diversion service Idle state while UUS1 was requested as required in the incoming call request and the deflecting user has not subscribed to this UUS supplementary service, receiving a valid FACILITY message containing a Facility information element with a CallDeflection invoke component,

sends a FACILITY message with a CallDeflection return error component indicating "supplementaryServiceInteractionNotAllowed" and remains in call state N09.

Selection: The network supports the restriction of the deflection of User-user information element with User information and/or UUS supplementary service requests to deflecting users who subscribe to the relevant UUS supplementary service. PICS: SC 2.1.

SSI_N20_01_010 subclauses 5.20.2.1.1, 5.20.2.1.2 inopportune mandatory

Ensure that the IUT, in call state N09 and the diversion service Idle state while UUS2 was requested as required in the incoming call request and the deflecting user has not subscribed to this UUS supplementary service, receiving a valid FACILITY message containing a Facility information element with a CallDeflection invoke component,

sends a FACILITY message with a CallDeflection return error component indicating "supplementaryServiceInteractionNotAllowed" and remains in call state N09.

Selection: The network supports the restriction of the deflection of User-user information element with User information and/or UUS supplementary service requests to deflecting users who subscribe to the relevant UUS supplementary service. PICS: SC 2.1.

SSI_N20_01_011 subclauses 5.20.2.1.1, 5.20.2.1.2 inopportune mandatory Ensure that the IUT, in call state N09 and the diversion service Idle state while UUS3 was requested as required in the incoming call request and the deflecting user has not subscribed to this UUS

supplementary service, receiving a valid FACILITY message containing a Facility information element with a CallDeflection invoke component,

sends a FACILITY message with a CallDeflection return error component indicating "supplementaryServiceInteractionNotAllowed" and remains in call state N09.

Selection: The network supports the restriction of the deflection of User-user information element with User information and/or UUS supplementary service requests to deflecting users who subscribe to the relevant UUS supplementary service. PICS: SC 2.1.

6.2.20.3 Deflection after alerting (S/T ref. point)

6.2.20.3.1 UUS1 implicit service

SSI_N20_02_001subclause 5.20.2.2.1.1validmandatoryEnsure that the IUT, in call state N07 and the diversion service Idle state while UUS1 was requested
implicitly in the incoming call request, receiving a valid FACILITY message containing a Facility
information element with a CallDeflection invoke component,

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallDeflection return result component and enters call state N12 or sends a FACILITY message with a CallDeflection return result component and remains in call state N07 and deflects the UUS request (resulting in the sending of a SETUP message containing a User-user information element to the deflected-to user).

Selection: Network does not support the restriction of the deflection of User-user information element with User information and/or UUS supplementary service requests to deflecting users who subscribe to the relevant UUS supplementary service. PICS: SC 2.1.

SSI_N20_02_002 subclauses 5.20.2.2.1.1 valid mandatory Ensure that the IUT, in call state N07 and the diversion service Idle state while UUS1 was requested implicitly in the incoming call request and the deflecting user has not subscribed to this UUS supplementary service, receiving a valid FACILITY message containing a Facility information element with a CallDeflection invoke component,

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallDeflection return result component and enters call state N12 or sends a FACILITY message with a CallDeflection return result component and remains in call state N07 and does not deflect the UUS request (resulting in the sending of a SETUP message without a User-user information element to the deflected-to user).

6.2.20.3.2 UUS1 explicit service

SSI_N20_03_001 subclauses 5.20.2.2.2.1, 5.20.2.2.2.2 valid

Ensure that the IUT, in call state N07 and the diversion service Idle state while UUS1 was requested explicitly as required in the incoming call request, receiving a valid FACILITY message containing a Facility information element with a CallDeflection invoke component,

sends a FACILITY message with a CallDeflection return error component indicating "supplementaryServiceInteractionNotAllowed" and remains in call state N07.

mandatory

mandatory

SSI_N20_03_002 subclauses 5.20.2.2.2.1, 5.20.2.2.2.2 valid

Ensure that the IUT, in call state N07 and the diversion service Idle state while UUS1 was requested explicitly as preferred in the incoming call request and the deflecting user has accepted this service request in the ALERTING message, receiving a valid FACILITY message containing a Facility information element with a CallDeflection invoke component,

sends a FACILITY message with a CallDeflection return error component indicating "supplementaryServiceInteractionNotAllowed" and remains in call state N07.

Selection: Network supports the inhibition of call deflection after alerting on acceptance of a preferred explicit UUS1 service request. PICS: SC 2.2.

SSI_N20_03_003subclause 5.20.2.2.1validmandatoryEnsure that the IUT, in call state N07 and the diversion service Idle state while UUS1 was requested
explicitly as preferred in the incoming call request and the deflecting user has accepted this service
request in the ALERTING message, receiving a valid FACILITY message containing a Facility information
element with a CallDeflection invoke component,

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallDeflection return result component and enters call state N12 or sends a FACILITY message with a CallDeflection return result component and remains in call state N07 and deflects the UUS request (resulting in the sending of a SETUP message containing a Facility information element with a UserUserService invoke component indicating "service1" to the deflected-to user).

- Selection: Network does not support the restriction of the deflection of User-user information element with User information and/or UUS supplementary service requests to deflecting users who subscribe to the relevant UUS supplementary service. PICS: SC 2.1.
- **Selection:** Network supports the invocation of call deflection after alerting though a preferred explicit UUS1 service request has been accepted. PICS: SC 2.3.

SSI_N20_03_004 subclause 5.20.2.2.2.1 valid mandatory

Ensure that the IUT, in call state N07 and the diversion service Idle state while UUS1 was requested explicitly as preferred in the incoming call request and the deflecting user has accepted this service request in the ALERTING message and has not subscribed to this UUS supplementary service, receiving a valid FACILITY message containing a Facility information element with a CallDeflection invoke component,

sends a FACILITY message with a CallDeflection return error component indicating "supplementaryServiceInteractionNotAllowed" and remains in call state N07.

- **Selection:** Network supports the restriction of the deflection of User-user information element with User information and/or UUS supplementary service requests to deflecting users who subscribe to the relevant UUS supplementary service. PICS: SC 2.1.
- **Selection:** Network supports the invocation of call deflection after alerting though a preferred explicit UUS1 service request has been accepted. PICS: SC 2.3.

SSI_N20_03_005 subclause 5.20.2.2.2.1 valid mandatory Ensure that the IUT, in call state N07 and the diversion service Idle state while UUS1 was requested explicitly as preferred in the incoming call request and the deflecting user has rejected this service request in the ALERTING message, receiving a valid FACILITY message containing a Facility information element with a CallDeflection invoke component,

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallDeflection return result component and enters call state N12 or sends a FACILITY message with a CallDeflection return result component and remains in call state N07 and does not deflect the UUS request (resulting in the sending of a SETUP message without a User-user information element to the deflected-to user).

SSI N20 03 006 subclause 5.20.2.2.2.1 valid

Ensure that the IUT, in call state N07 and the diversion service Idle state while UUS1 was requested explicitly as preferred in the incoming call request and the deflecting user has not yet responded to this service request in the ALERTING message, receiving a valid FACILITY message containing a Facility information element with a CallDeflection invoke component,

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallDeflection return result component and enters call state N12 or sends a FACILITY message with a CallDeflection return result component and remains in call state N07 and does not deflect the UUS request (resulting in the sending of a SETUP message without a User-user information element to the deflected-to user).

6.2.20.3.3 **UUS2** service

SSI_N20_04_001 subclauses 5.20.2.3.1, 5.20.2.3.2 valid mandatory Ensure that the IUT, in call state N07 and the diversion service Idle state while UUS2 was requested explicitly as required in the incoming call request, receiving a valid FACILITY message containing a Facility information element with a CallDeflection invoke component,

sends a FACILITY message with a CallDeflection return error component indicating "supplementaryServiceInteractionNotAllowed" and remains in call state N07.

subclauses 5.20.2.3.1, 5.20.2.3.2 SSI N20 04 002 valid mandatory

Ensure that the IUT, in call state N07 and the diversion service Idle state while UUS2 was requested explicitly as preferred in the incoming call request and the deflecting user has accepted this service request in the ALERTING message, receiving a valid FACILITY message containing a Facility information element with a CallDeflection invoke component,

sends a FACILITY message with a CallDeflection return error component indicating "supplementaryServiceInteractionNotAllowed" and remains in call state N07.

SSI N20 04 003 subclause 5.20.2.3.1 valid mandatorv

Ensure that the IUT, in call state N07 and the diversion service Idle state while UUS2 was requested explicitly as preferred in the incoming call request and the deflecting user has rejected this service request in the ALERTING message, receiving a valid FACILITY message containing a Facility information element with a CallDeflection invoke component,

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallDeflection return result component and enters call state N12 or sends a FACILITY message with a CallDeflection return result component and remains in call state N07 and does not deflect the UUS request (resulting in the sending of a SETUP message without a User-user information element to the deflected-to user).

SSI N20 04 004 subclause 5.20.2.3.1 valid mandatory Ensure that the IUT, in call state N07 and the diversion service Idle state while UUS2 was requested explicitly as preferred in the incoming call request and the deflecting user has not yet responded to this service request in the ALERTING message, receiving a valid FACILITY message containing a Facility information element with a CallDeflection invoke component,

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallDeflection return result component and enters call state N12 or sends a FACILITY message with a CallDeflection return result component and remains in call state N07 and does not deflect the UUS request (resulting in the sending of a SETUP message without a User-user information element to the deflected-to user).

mandatory

6.2.20.3.4 UUS3 service

SSI_N20_05_001 subclause 5.20.2.2.4.1 valid mandatory Ensure that the IUT, in call state N07 and the diversion service Idle state while UUS3 was requested in the incoming call request, receiving a valid FACILITY message containing a Facility information element with a CallDeflection invoke component,

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallDeflection return result component and enters call state N12 or sends a FACILITY message with a CallDeflection return result component and remains in call state N07 and deflects the UUS request (resulting in the sending of a SETUP message containing a Facility information element with a UserUserService invoke component indicating "service3" to the deflected-to user).

Selection: Network does not support the restriction of the deflection of User-user information element with User information and/or UUS supplementary service requests to deflecting users who subscribe to the relevant UUS supplementary service. PICS: SC 2.1.

SSI_N20_05_002 subclauses 5.20.2.2.4.1, 5.20.2.2.4.2 inopportune mandatory Ensure that the IUT, in call state N07 and the diversion service Idle state while UUS3 was requested as required in the incoming call request and the deflecting user has not subscribed to this UUS supplementary service, receiving a valid FACILITY message containing a Facility information element with a CallDeflection invoke component,

sends a FACILITY message with a CallDeflection return error component indicating "supplementaryServiceInteractionNotAllowed" and remains in call state N07.

Selection: The network supports the restriction of the deflection of User-user information element with User information and/or UUS supplementary service requests to deflecting users who subscribe to the relevant UUS supplementary service. PICS: SC 2.1.

SSI_N20_05_003 subclause 5.20.2.2.4.1 inopportune mandatory

Ensure that the IUT, in call state N07 and the diversion service Idle state while UUS3 was requested as preferred in the incoming call request and the deflecting user has not subscribed to this UUS supplementary service, receiving a valid FACILITY message containing a Facility information element with a CallDeflection invoke component,

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallDeflection return result component and enters call state N12 or sends a FACILITY message with a CallDeflection return result component and remains in call state N07 and does not deflect the UUS request (resulting in the sending of a SETUP message without a UserUserService invoke component to the deflected-to user).

Selection: The network supports the restriction of the deflection of User-user information element with User information and/or UUS supplementary service requests to deflecting users who subscribe to the relevant UUS supplementary service. PICS: SC 2.1.

6.2.20.4 Partial re-routeing (T ref. point)

SSI_N20_06_001 subclauses 5.20.3.2, 5.23.3.2.1 valid mandatory Ensure that the IUT, in call state N07 and the diversion service Idle state while UUS1 was requested implicitly in the incoming call request, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component containing a RerouteingReason parameter indicating "cdImmediate" and including User-user information in the q931InfoElement parameter,

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallRerouteing return result component and enters call state N12 or sends a FACILITY message with a CallRerouteing return result component and remains in call state N07 and deflects the UUS request (resulting in the sending of a SETUP message containing a User-user information element to the diverted-to user).

Selection: Network does not support the restriction of the re-routeing of User-user information element with User information and/or UUS supplementary service requests to users who subscribe to the relevant UUS supplementary service. PICS: SC 2.4.

SSI_N20_06_002 subclauses 5.20.3.2, 5.23.3.2.1 valid

mandatory

Ensure that the IUT, in call state N07 and the diversion service Idle state while UUS1 was requested explicitly in the incoming call request, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component containing a RerouteingReason parameter indicating "cdAlerting" and a UUSRequest invoke component indicating "service1",

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallRerouteing return result component and enters call state N12 or sends a FACILITY message with a CallRerouteing return result component and remains in call state N07 and deflects the UUS request (resulting in the sending of a SETUP message containing a Facility information element with a UserUserService invoke component indicating "service1" to the deflected-to user).

Selection: Network does not support the restriction of the re-routeing of User-user information element with User information and/or UUS supplementary service requests to users who subscribe to the relevant UUS supplementary service. PICS: SC 2.4.

SSI_N20_06_003 subclauses 5.20.3.2, 5.23.3.2.1 valid mandatory Ensure that the IUT, in call state N07 and the diversion service Idle state while UUS2 was requested in the

incoming call request, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component containing a RerouteingReason parameter indicating "cdImmediate" and a UUSRequest invoke component indicating "service2",

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallRerouteing return result component and enters call state N12 or sends a FACILITY message with a CallRerouteing return result component and remains in call state N07 and deflects the UUS request (resulting in the sending of a SETUP message containing a Facility information element with a UserUserService invoke component indicating "service2" to the deflected-to user).

Selection: Network does not support the restriction of the re-routeing of User-user information element with User information and/or UUS supplementary service requests to users who subscribe to the relevant UUS supplementary service. PICS: SC 2.4.

SSI_N20_06_004 subclauses 5.20.3.2, 5.23.3.2.1 valid mandatory Ensure that the IUT, in call state N07 and the diversion service Idle state while UUS3 was requested in the incoming call request, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component containing a RerouteingReason parameter indicating "cdAlerting" and a UUSRequest invoke component indicating "service3",

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallRerouteing return result component and enters call state N12 or sends a FACILITY message with a CallRerouteing return result component and remains in call state N07 and deflects the UUS request (resulting in the sending of a SETUP message containing a Facility information element with a UserUserService invoke component indicating "service3" to the deflected-to user).

Selection: Network does not support the restriction of the re-routeing of User-user information element with User information and/or UUS supplementary service requests to users who subscribe to the relevant UUS supplementary service. PICS: SC 2.4.

SSI_N20_06_005 subclauses 5.20.3.2, 5.23.3.2.1 inopportune mandatory

Ensure that the IUT, in call state N07 and the diversion service Idle state while UUS1 was requested implicitly in the incoming call request and the deflecting user has not subscribed to this UUS supplementary service, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component containing a RerouteingReason parameter indicating "cdAlerting" and including User-user information in the q931InfoElement parameter,

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallRerouteing return result component and enters call state N12 or sends a FACILITY message with a CallRerouteing return result component and remains in call state N07 and does not deflect the UUS request (resulting in the sending of a SETUP message without a User-user information element to the deflected-to user).

Selection: Network supports the restriction of the re-routeing of User-user information element with User information and/or UUS supplementary service requests to users who subscribe to the relevant UUS supplementary service. PICS: SC 2.4.

Page 52 Draft prETS 300 195-5: June 1996

SSI_N20_06_006 subclauses 5.20.3.2, 5.23.3.2.1 inopportune mandatory Ensure that the IUT, in call state N07 and the diversion service Idle state while UUS1 was requested explicitly in the incoming call request and the deflecting user has not subscribed to this UUS supplementary service, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component containing a RerouteingReason parameter indicating "cdImmediate" and a UUSRequest invoke component indicating "service1",

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallRerouteing return result component and enters call state N12 or sends a FACILITY message with a CallRerouteing return result component and remains in call state N07 and does not deflect the UUS request (resulting in the sending of a SETUP message without a UserUserService invoke component to the deflected-to user).

Selection: Network supports the restriction of the re-routeing of User-user information element with User information and/or UUS supplementary service requests to users who subscribe to the relevant UUS supplementary service. PICS: SC 2.4.

SSI_N20_06_007 subclauses 5.20.3.2, 5.23.3.2.1 inopportune mandatory

Ensure that the IUT, in call state N07 and the diversion service Idle state while UUS2 was requested in the incoming call request and the deflecting user has not subscribed to this UUS supplementary service, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component containing a RerouteingReason parameter indicating "cdAlerting" and a UUSRequest invoke component indicating "service2",

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallRerouteing return result component and enters call state N12 or sends a FACILITY message with a CallRerouteing return result component and remains in call state N07 and does not deflect the UUS request (resulting in the sending of a SETUP message without a UserUserService invoke component to the deflected-to user).

Selection: Network supports the restriction of the re-routeing of User-user information element with User information and/or UUS supplementary service requests to users who subscribe to the relevant UUS supplementary service. PICS: SC 2.4.

SSI_N20_06_008 subclauses 5.20.3.2, 5.23.3.2.1 inopportune mandatory

Ensure that the IUT, in call state N07 and the diversion service Idle state while UUS3 was requested in the incoming call request and the deflecting user has not subscribed to this UUS supplementary service, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component containing a RerouteingReason parameter indicating "cdlmmediate" and a UUSRequest invoke component indicating "service3",

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallRerouteing return result component and enters call state N12 or sends a FACILITY message with a CallRerouteing return result component and remains in call state N07 and does not deflect the UUS request (resulting in the sending of a SETUP message without a UserUserService invoke component to the deflected-to user).

Selection: Network supports the restriction of the re-routeing of User-user information element with User information and/or UUS supplementary service requests to users who subscribe to the relevant UUS supplementary service. PICS: SC 2.4.

6.2.21 Interaction between CFB and COLP

This interaction is covered by clause 9.2.3.1 of the Diversion supplementary services base standard ETS 300 207-1 [3]. Reference is made to the corresponding TPs in ETS 300 207-5 [8].

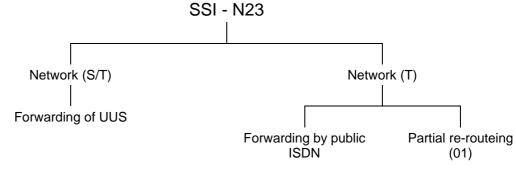
6.2.22 Interaction between CFB and COLR

This interaction is covered by clause 9.2.3.1 of the Diversion supplementary services base standard ETS 300 207-1 [3]. Reference is made to the corresponding TPs in ETS 300 207-5 [8].

6.2.23 Interaction between CFB and UUS

Selection: IUT supports the interaction between CFB and UUS. PICS: MC 2.21 AND MC 2.9.

6.2.23.1 Test suite substructure



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

Figure 20: N23 test suite substructure - level 2

6.2.23.2 Forwarding of UUS supplementary service information (S/T ref. point)

This subclause refers to ETS 300 195-1 [4], subclause 5.23.2.

No test purpose related to the specified supplementary service interaction can be defined as the specified behaviour is not observable at the interface between the network and the served user.

6.2.23.3 Forwarding of UUS by public ISDN (T ref. point)

This subclause refers to ETS 300 195-1 [4], subclause 5.23.3.1.

No test purpose related to the specified supplementary service interaction can be defined as the specified behaviour is not observable at the interface between the network and the served user of the CFB service.

6.2.23.4 Partial re-routeing (T ref. point)

SSI_N23_01_001 subclause 5.23.3.2.1 valid mandatory Ensure that the IUT, in call state N09 and the diversion service Idle state while UUS1 was requested implicitly in the incoming call request, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component containing a RerouteingReason parameter indicating "cfb" and including User-user information in the g931InfoElement parameter,

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallRerouteing return result component and enters call state N12 or sends a FACILITY message with a CallRerouteing return result component and remains in call state N09 and diverts the UUS request (resulting in the sending of a SETUP message containing a User-user information element to the diverted-to user).

Selection: Network does not support the restriction of the re-routeing of User-user information element with User information and/or UUS supplementary service requests to users who subscribe to the relevant UUS supplementary service. PICS: SC 3.2.

Page 54 Draft prETS 300 195-5: June 1996

SSI_N23_01_002 subclause 5.23.3.2.1 valid

Ensure that the IUT, in call state N09 and the diversion service Idle state while UUS1 was requested explicitly in the incoming call request, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component containing a RerouteingReason parameter indicating "cfb" and a UUSRequest invoke component indicating "service1",

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallRerouteing return result component and enters call state N12 or sends a FACILITY message with a CallRerouteing return result component and remains in call state N09 and diverts the UUS request (resulting in the sending of a SETUP message containing a Facility information element with a UserUserService invoke component indicating "service1" to the diverted-to user).

mandatory

Selection: Network does not support the restriction of the re-routeing of User-user information element with User information and/or UUS supplementary service requests to users who subscribe to the relevant UUS supplementary service. PICS: SC 3.2.

SSI_N23_01_003 subclause 5.23.3.2.1 valid mandatory Ensure that the IUT, in call state N09 and the diversion service Idle state while UUS2 was requested in the incoming call request, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component containing a RerouteingReason parameter indicating "cfb" and a UUSRequest invoke component indicating "service2",

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallRerouteing return result component and enters call state N12 or sends a FACILITY message with a CallRerouteing return result component and remains in call state N09 and diverts the UUS request (resulting in the sending of a SETUP message containing a Facility information element with a UserUserService invoke component indicating "service2" to the diverted-to user).

Selection: Network does not support the restriction of the re-routeing of User-user information element with User information and/or UUS supplementary service requests to users who subscribe to the relevant UUS supplementary service. PICS: SC 3.2.

SSI_N23_01_004 subclause 5.23.3.2.1 valid mandatory

Ensure that the IUT, in call state N09 and the diversion service Idle state while UUS3 was requested in the incoming call request, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component containing a RerouteingReason parameter indicating "cfb" and a UUSRequest invoke component indicating "service3",

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallRerouteing return result component and enters call state N12 or sends a FACILITY message with a CallRerouteing return result component and remains in call state N09 and diverts the UUS request (resulting in the sending of a SETUP message containing a Facility information element with a UserUserService invoke component indicating "service3" to the diverted-to user).

Selection: Network does not support the restriction of the re-routeing of User-user information element with User information and/or UUS supplementary service requests to users who subscribe to the relevant UUS supplementary service. PICS: SC 3.2.

SSI_N23_01_005 subclauses 5.23.3.2.1 inopportune mandatory

Ensure that the IUT, in call state N09 and the diversion service Idle state while UUS1 was requested implicitly in the incoming call request and the diverting user has not subscribed to this UUS supplementary service, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component containing a RerouteingReason parameter indicating "cfb" and including User-user information in the q931InfoElement parameter,

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallRerouteing return result component and enters call state N12 or sends a FACILITY message with a CallRerouteing return result component and remains in call state N09 and does not divert the UUS request (resulting in the sending of a SETUP message without a User-user information element to the diverted-to user).

Selection: Network supports the restriction of the re-routeing of User-user information element with User information and/or UUS supplementary service requests to users who subscribe to the relevant UUS supplementary service. PICS: SC 3.2.

mandatory

SSI N23 01 006 subclauses 5.23.3.2.1

inopportune mandatory

Ensure that the IUT, in call state N09 and the diversion service Idle state while UUS1 was requested explicitly in the incoming call request and the diverting user has not subscribed to this UUS supplementary service, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component containing a RerouteingReason parameter indicating "cfb" and a UUSRequest invoke component indicating "service1",

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallRerouteing return result component and enters call state N12 or sends a FACILITY message with a CallRerouteing return result component and remains in call state N09 and does not divert the UUS request (resulting in the sending of a SETUP message without a UserUserService invoke component to the diverted-to user).

Selection: Network supports the restriction of the re-routeing of User-user information element with User information and/or UUS supplementary service requests to users who subscribe to the relevant UUS supplementary service. PICS: SC 3.2.

SSI N23 01 007 subclauses 5.23.3.2.1

inopportune mandatory Ensure that the IUT, in call state N09 and the diversion service Idle state while UUS2 was requested in the incoming call request and the diverting user has not subscribed to this UUS supplementary service, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component containing a RerouteingReason parameter indicating "cfb" and a UUSRequest invoke component indicating "service2",

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallRerouteing return result component and enters call state N12 or sends a FACILITY message with a CallRerouteing return result component and remains in call state N09 and does not divert the UUS request (resulting in the sending of a SETUP message without a UserUserService invoke component to the diverted-to user).

Selection: Network supports the restriction of the re-routeing of User-user information element with User information and/or UUS supplementary service requests to users who subscribe to the relevant UUS supplementary service. PICS: SC 3.2.

SSI_N23_01_008 subclauses 5.23.3.2.1 inopportune

Ensure that the IUT, in call state N09 and the diversion service Idle state while UUS3 was requested in the incoming call request and the diverting user has not subscribed to this UUS supplementary service, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component containing a RerouteingReason parameter indicating "cfb" and a UUSRequest invoke component indicating "service3",

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallRerouteing return result component and enters call state N12 or sends a FACILITY message with a CallRerouteing return result component and remains in call state N09 and does not divert the UUS request (resulting in the sending of a SETUP message without a UserUserService invoke component to the diverted-to user).

Selection: Network supports the restriction of the re-routeing of User-user information element with User information and/or UUS supplementary service requests to users who subscribe to the relevant UUS supplementary service. PICS: SC 3.2.

6.2.24 Interaction between CFNR and COLP

This interaction is covered by clause 9.2.3.1 of the Diversion supplementary services base standard ETS 300 207-1 [3]. Reference is made to the corresponding TPs in ETS 300 207-5 [8].

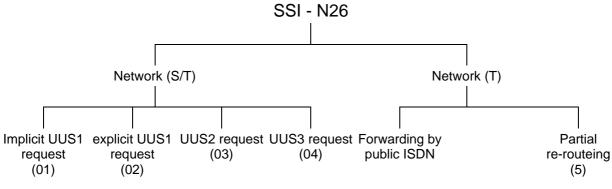
6.2.25 Interaction between CFNR and COLR

This interaction is covered by clause 9.2.3.1 of the Diversion supplementary services base standard ETS 300 207-1 [3]. Reference is made to the corresponding TPs in ETS 300 207-5 [8].

6.2.26 Interaction between CFNR and UUS

Selection: IUT supports the interaction between CFNR and UUS. PICS: MC 2.22 AND MC 2.9.

6.2.26.1 Test suite substructure



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

Figure 21: N26 test suite substructure - level 2

6.2.26.2 Implicit UUS1 request (S/T ref. point)

SSI_N26_01_001 subclause 5.26.2.1.1 valid mandatory Ensure that the IUT, in call state N07 and the diversion service Idle state while CFNR is activated and UUS1 was requested implicitly in the incoming call request, on the expiry of T-CFNR.

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and enters call state N12 or sends no message and remains in call state N07 and diverts the UUS request (resulting in the sending of a SETUP message with a User-user information element to the diverted-to user).

SSI_N26_01_002subclause 5.26.2.1.1validmandatoryEnsure that the IUT, in call state N07 and the diversion service Idle state while CFNR is activated and
UUS1 was requested implicitly in the incoming call request and the diverting user has not subscribed to
this UUS supplementary service, on the expiry of T-CFNR,

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and enters call state N12 or sends no message and remains in call state N07 and does not divert the UUS request (resulting in the sending of a SETUP message without a User-user information element to the diverted-to user).

Selection: Support the restriction of the forwarding of User-user information element with User information and/or UUS supplementary service requests to forwarding users who subscribe to the UUS1 supplementary service. PICS: SC 4.1

6.2.26.3 Explicit UUS1 request (S/T ref. point)

SSI_N26_02_001subclause 5.26.2.2.1validmandatoryEnsure that the IUT, in call state N07 and the diversion service Idle state while CFNR is activated and
UUS1 was requested explicitly as required in the incoming call request, after the time period associated
with T-CFNR has passed by,

sends no message and remains in call state N07 and does not divert the call (resulting in the sending of no SETUP message to the user to which calls are normally diverted for this instance of the CFNR service).

mandatory

SSI_N26_02_002 subclause 5.26.2.2.1

valid

Ensure that the IUT, in call state N07 and the diversion service Idle state while CFNR is activated and UUS1 was requested explicitly as preferred in the incoming call request and the diverting user has accepted this service request in the ALERTING message, after the time period associated with T-CFNR has passed by,

sends no message and remains in call state N07 and does not divert the call (resulting in the sending of no SETUP message to the user to which calls are normally diverted for this instance of the CFNR service).

Selection: Network supports the inhibition of call forwarding on no reply on acceptance of a preferred explicit UUS1 service request. PICS: SC 4.2.

SSI_N26_02_003subclause 5.26.2.2.1validmandatoryEnsure that the IUT, in call state N07 and the diversion service Idle state while CFNR is activated and
UUS1 was requested explicitly as preferred in the incoming call request and the diverting user has
accepted this service request in the ALERTING message, on the expiry of T-CFNR,

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and enters call state N12 or sends no message and remains in call state N07 and diverts the UUS request (resulting in the sending of a SETUP message containing a Facility information element with a UserUserService invoke component indicating "service1" to the diverted-to user).

Selection: Network supports the invocation of call forwarding on no reply though a preferred explicit UUS1 service request has been accepted. PICS: SC 4.3.

SSI_N26_02_004 subclause 5.26.2.2.1 valid mandatory Ensure that the IUT, in call state N07 and the diversion service Idle state while CFNR is activated and UUS1 was requested explicitly as preferred in the incoming call request and the diverting user has accepted this service request in the ALERTING message and has not subscribed to this UUS supplementary service, after the time period associated with T-CFNR has passed by,

sends no message and remains in call state N07 and does not divert the call (resulting in the sending of no SETUP message to the user to which calls are normally diverted for this instance of the CFNR service).

Selection: Network supports the invocation of call forwarding on no reply though a preferred explicit UUS1 service request has been accepted. PICS: SC 4.3.

Selection: Support the restriction of the forwarding of User-user information element with User information and/or UUS supplementary service requests to forwarding users who subscribe to the UUS1 supplementary service. PICS: SC 4.1.

SSI_N26_02_005subclause 5.26.2.2.1validmandatoryEnsure that the IUT, in call state N07 and the diversion service Idle state while CFNR is activated and
UUS1 was requested explicitly as preferred in the incoming call request and the diverting user has
rejected this service request in the ALERTING message, on the expiry of T-CFNR,

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and enters call state N12 or sends no message and remains in call state N07 and does not divert the UUS request (resulting in the sending of a SETUP message without a UserUserService invoke component to the diverted-to user).

SSI_N26_02_006subclause 5.26.2.2.1validmandatoryEnsure that the IUT, in call state N07 and the diversion service Idle state while CFNR is activated and
UUS1 was requested explicitly as preferred in the incoming call request and the diverting user has not yet
responded to this service request in the ALERTING message, on the expiry of T-CFNR,

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and enters call state N12 or sends no message and remains in call state N07 and does not divert the UUS request (resulting in the sending of a SETUP message without a UserUserService invoke component to the diverted-to user).

6.2.26.4 UUS2 request (S/T ref. point)

SSI N26 03 001 subclause 5.26.2.3.1 valid mandatory Ensure that the IUT, in call state N07 and the diversion service Idle state while CFNR is activated and UUS2 was requested as required in the incoming call request, after the time period associated with T-CFNR has passed by,

sends no message and remains in call state N07 and does not divert the call (resulting in the sending of no SETUP message to the user to which calls are normally diverted for this instance of the CFNR service).

SSI N26 03 002 subclause 5.26.2.3.1 valid mandatory Ensure that the IUT, in call state N07 and the diversion service Idle state while CFNR is activated and UUS2 was requested as preferred in the incoming call request and the diverting user has accepted this service request in the ALERTING message, after the time period associated with T-CFNR has passed by,

sends no message and remains in call state N07 and does not divert the call (resulting in the sending of no SETUP message to the user to which calls are normally diverted for this instance of the CFNR service).

SSI N26 03 003 subclause 5.26.2.3.1 valid mandatory

Ensure that the IUT, in call state N07 and the diversion service Idle state while CFNR is activated and UUS2 was requested as preferred in the incoming call request and the diverting user has rejected this service request in the ALERTING message, on the expiry of T-CFNR,

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and enters call state N12 or sends no message and remains in call state N07 and does not divert the UUS request (resulting in the sending of a SETUP message without a UserUserService invoke component to the diverted-to user).

SSI N26 03 004 subclause 5.26.2.3.1 valid mandatory Ensure that the IUT, in call state N07 and the diversion service Idle state while CFNR is activated and UUS2 was requested as preferred in the incoming call request and the diverting user has not yet responded to this service request in the ALERTING message, on the expiry of T-CFNR,

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and enters call state N12 or sends no message and remains in call state N07 and does not divert the UUS request (resulting in the sending of a SETUP message without a UserUserService invoke component to the diverted-to user).

6.2.26.5 UUS3 request (S/T ref. point)

SSI N26 04 001 subclause 5.26.2.4.1 valid mandatorv Ensure that the IUT, in call state N07 and the diversion service Idle state while CFNR is activated and UUS3 was requested in the incoming call request, on the expiry of T-CFNR,

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and enters call state N12 or sends no message and remains in call state N07 and diverts the UUS request (resulting in the sending of a SETUP message containing a Facility information element with a UserUserService invoke component indicating "service3" to the diverted-to user).

SSI N26 04 002 subclause 5.26.2.4.1 valid Ensure that the IUT, in call state N07 and the diversion service Idle state while CFNR is activated and UUS3 was requested as required in the incoming call request and the diverting user has not subscribed to this UUS supplementary service, after the time period associated with T-CFNR has passed by,

sends no message and remains in call state N07 and does not divert the call (resulting in the sending of no SETUP message to the user to which calls are normally diverted for this instance of the CFNR service).

Selection: Support the restriction of the forwarding of UUS supplementary service requests to forwarding users who subscribe to the UUS3 supplementary service.

mandatory

SSI_N26_04_003 subclause 5.26.2.4.1 valid mandatory

Ensure that the IUT, in call state N07 and the diversion service Idle state while CFNR is activated and UUS3 was requested as preferred in the incoming call request and the diverting user has not subscribed to this UUS supplementary service, on the expiry of T-CFNR,

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and enters call state N12 or sends no message and remains in call state N07 and does not divert the UUS request (resulting in the sending of a SETUP message without a UserUserService invoke component to the diverted-to user).

Selection: Support the restriction of the forwarding of UUS supplementary service requests to forwarding users who subscribe to the UUS3 supplementary service.

6.2.26.6 Forwarding by public ISDN (T ref. point)

This subclause refers to ETS 300 195-1 [4], subclause 5.26.3.1.

The TPs of subclauses 6.2.26.2, 6.2.26.3, 6.2.26.4 and 6.2.26.5 are applicable without modification.

6.2.26.7 Partial re-routeing (T ref. point)

SSI_N26_05_001 subclauses 5.26.3.2, 5.23.3.2.1 valid mandatory Ensure that the IUT, in call state N07 and the diversion service Idle state while UUS1 was requested implicitly in the incoming call request, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component containing a RerouteingReason parameter indicating "cfnr" and including User-user information in the q931InfoElement parameter,

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallRerouteing return result component and enters call state N12 or sends a FACILITY message with a CallRerouteing return result component and remains in call state N07 and diverts the UUS request (resulting in the sending of a SETUP message containing a User-user information element to the diverted-to user).

Selection: Network does not support the restriction of the re-routeing of User-user information element with User information and/or UUS supplementary service requests to users who subscribe to the relevant UUS supplementary service. PICS: SC 4.4.

SSI_N26_05_002 subclauses 5.26.3.2, 5.23.3.2.1 valid mandatory Ensure that the IUT, in call state N07 and the diversion service Idle state while UUS1 was requested explicitly in the incoming call request, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component containing a RerouteingReason parameter indicating "cfnr" and a UUSRequest invoke component indicating "service1",

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallRerouteing return result component and enters call state N12 or sends a FACILITY message with a CallRerouteing return result component and remains in call state N07 and diverts the UUS request (resulting in the sending of a SETUP message containing a Facility information element with a UserUserService invoke component indicating "service1" to the diverted-to user).

Selection: Network does not support the restriction of the re-routeing of User-user information element with User information and/or UUS supplementary service requests to users who subscribe to the relevant UUS supplementary service. PICS: SC 4.4.

SSI_N26_05_003 subclauses 5.26.3.2, 5.23.3.2.1 valid mandatory

Ensure that the IUT, in call state N07 and the diversion service Idle state while UUS2 was requested in the incoming call request, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component containing a RerouteingReason parameter indicating "cfnr" and a UUSRequest invoke component indicating "service2",

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallRerouteing return result component and enters call state N12 or sends a FACILITY message with a CallRerouteing return result component and remains in call state N07 and diverts the UUS request (resulting in the sending of a SETUP message containing a Facility information element with a UserUserService invoke component indicating "service2" to the diverted-to user).

Selection: Network does not support the restriction of the re-routeing of User-user information element with User information and/or UUS supplementary service requests to users who subscribe to the relevant UUS supplementary service. PICS: SC 4.4.

SSI_N26_05_004 subclauses 5.26.3.2, 5.23.3.2.1 valid mandatory

Ensure that the IUT, in call state N07 and the diversion service Idle state while UUS3 was requested in the incoming call request, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component containing a RerouteingReason parameter indicating "cfnr" and a UUSRequest invoke component indicating "service3",

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallRerouteing return result component and enters call state N12 or sends a FACILITY message with a CallRerouteing return result component and remains in call state N07 and diverts the UUS request (resulting in the sending of a SETUP message containing a Facility information element with a UserUserService invoke component indicating "service3" to the diverted-to user).

Selection: Network does not support the restriction of the re-routeing of User-user information element with User information and/or UUS supplementary service requests to users who subscribe to the relevant UUS supplementary service. PICS: SC 4.4.

SSI_N26_05_005 subclauses 5.26.3.2, 5.23.3.2.1 inopportune mandatory

Ensure that the IUT, in call state N07 and the diversion service Idle state while UUS1 was requested implicitly in the incoming call request and the diverting user has not subscribed to this UUS supplementary service, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component containing a RerouteingReason parameter indicating "cfnr" and including User-user information in the q931InfoElement parameter,

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallRerouteing return result component and enters call state N12 or sends a FACILITY message with a CallRerouteing return result component and remains in call state N07 and does not divert the UUS request (resulting in the sending of a SETUP message without a User-user information element to the diverted-to user).

Selection: Network supports the restriction of the re-routeing of User-user information element with User information and/or UUS supplementary service requests to users who subscribe to the relevant UUS supplementary service. PICS: SC 4.4.

SSI_N26_05_006 subclauses 5.26.3.2, 5.23.3.2.1 inopportune mandatory

Ensure that the IUT, in call state N07 and the diversion service Idle state while UUS1 was requested explicitly in the incoming call request and the diverting user has not subscribed to this UUS supplementary service, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component containing a RerouteingReason parameter indicating "cfnr" and a UUSRequest invoke component indicating "service1",

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallRerouteing return result component and enters call state N12 or sends a FACILITY message with a CallRerouteing return result component and remains in call state N07 and does not divert the UUS request (resulting in the sending of a SETUP message without a UserUserService invoke component to the diverted-to user).

Selection: Network supports the restriction of the re-routeing of User-user information element with User information and/or UUS supplementary service requests to users who subscribe to the relevant UUS supplementary service. PICS: SC 4.4.

SSI_N26_05_007 subclauses 5.26.3.2, 5.23.3.2.1 inopportune mandatory

Ensure that the IUT, in call state N07 and the diversion service Idle state while UUS2 was requested in the incoming call request and the diverting user has not subscribed to this UUS supplementary service, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component containing a RerouteingReason parameter indicating "cfnr" and a UUSRequest invoke component indicating "service2",

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallRerouteing return result component and enters call state N12 or sends a FACILITY message with a CallRerouteing return result component and remains in call state N07 and does not divert the UUS request (resulting in the sending of a SETUP message without a UserUserService invoke component to the diverted-to user).

Selection: Network supports the restriction of the re-routeing of User-user information element with User information and/or UUS supplementary service requests to users who subscribe to the relevant UUS supplementary service. PICS: SC 4.4.

SSI_N26_05_008 subclauses 5.26.3.2, 5.23.3.2.1 inopportune mandatory

Ensure that the IUT, in call state N07 and the diversion service Idle state while UUS3 was requested in the incoming call request and the diverting user has not subscribed to this UUS supplementary service, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component containing a RerouteingReason parameter indicating "cfnr" and a UUSRequest invoke component indicating "service3",

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallRerouteing return result component and enters call state N12 or sends a FACILITY message with a CallRerouteing return result component and remains in call state N07 and does not divert the UUS request (resulting in the sending of a SETUP message without a UserUserService invoke component to the diverted-to user).

Selection: Network supports the restriction of the re-routeing of User-user information element with User information and/or UUS supplementary service requests to users who subscribe to the relevant UUS supplementary service. PICS: SC 4.4.

6.2.27 Interaction between CFU and COLP

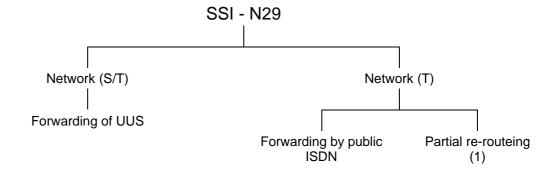
This interaction is covered by clause 9.2.3.1 of the Diversion supplementary services base standard ETS 300 207-1 [3]. Reference is made to the corresponding TPs in ETS 300 207-5 [8].

6.2.28 Interaction between CFU and COLR

This interaction is covered by clause 9.2.3.1 of the Diversion supplementary services base standard ETS 300 207-1 [3]. Reference is made to the corresponding TPs in ETS 300 207-5 [8].

6.2.29 Interaction between CFU and UUS

6.2.29.1 Test suite substructure



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

Figure 22: N29 test suite substructure - level 2

6.2.29.2 Forwarding of UUS supplementary service information (S/T ref. point)

This subclause refers to ETS 300 195-1 [4], subclause 5.29.2. No test purpose related to the specified supplementary service interaction can be defined as the specified behaviour is not observable at the interface between the network and the served user of the CFU service.

6.2.29.3 Forwarding of UUS by public ISDN (T ref. point)

This subclause refers to ETS 300 195-1 [4], subclause 5.29.3.1. No test purpose related to the specified supplementary service interaction can be defined as the specified behaviour is not observable at the interface between the network and the served user.

Selection: IUT supports the interaction between CFU and UUS. PICS: MC 2.23 and MC 2.9.

6.2.29.4 Partial re-routeing (T ref. point)

SSI_N29_01_001 subclauses 5.29.3.2, 5.23.3.2.1 valid mandatory Ensure that the IUT, in call state N09 and the diversion service Idle state while UUS1 was requested implicitly in the incoming call request, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component containing a RerouteingReason parameter indicating "cfu" and including User-user information in the q931InfoElement parameter,

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallRerouteing return result component and enters call state N12 or sends a FACILITY message with a CallRerouteing return result component and remains in call state N09 and diverts the UUS request (resulting in the sending of a SETUP message containing a User-user information element to the diverted-to user).

Selection: Network does not support the restriction of the re-routeing of User-user information element with User information and/or UUS supplementary service requests to users who subscribe to the relevant UUS supplementary service. PICS: SC 5.2.

SSI_N29_01_002 subclauses 5.29.3.2, 5.23.3.2.1 valid mandatory Ensure that the IUT, in call state N09 and the diversion service Idle state while UUS1 was requested explicitly in the incoming call request, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component containing a RerouteingReason parameter indicating "cfu" and a UUSRequest invoke component indicating "service1",

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallRerouteing return result component and enters call state N12 or sends a FACILITY message with a CallRerouteing return result component and remains in call state N09 and diverts the UUS request (resulting in the sending of a SETUP message containing a Facility information element with a UserUserService invoke component indicating "service1" to the diverted-to user).

Selection: Network does not support the restriction of the re-routeing of User-user information element with User information and/or UUS supplementary service requests to users who subscribe to the relevant UUS supplementary service. PICS: SC 5.2.

SSI_N29_01_003 subclauses 5.29.3.2, 5.23.3.2.1 valid mandatory Ensure that the IUT, in call state N09 and the diversion service Idle state while UUS2 was requested in the

incoming call request, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component containing a RerouteingReason parameter indicating "cfu" and a UUSRequest invoke component indicating "service2",

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallRerouteing return result component and enters call state N12 or sends a FACILITY message with a CallRerouteing return result component and remains in call state N09 and diverts the UUS request (resulting in the sending of a SETUP message containing a Facility information element with a UserUserService invoke component indicating "service2" to the diverted-to user).

Selection: Network does not support the restriction of the re-routeing of User-user information element with User information and/or UUS supplementary service requests to users who subscribe to the relevant UUS supplementary service. PICS: SC 5.2.

SSI_N29_01_004 subclauses 5.29.3.2, 5.23.3.2.1 valid mandatory Ensure that the IUT, in call state N09 and the diversion service Idle state while UUS3 was requested in the incoming call request, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component containing a RerouteingReason parameter indicating "cfu" and a UUSRequest invoke component indicating "service3",

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallRerouteing return result component and enters call state N12 or sends a FACILITY message with a CallRerouteing return result component and remains in call state N09 and diverts the UUS request (resulting in the sending of a SETUP message containing a Facility information element with a UserUserService invoke component indicating "service3" to the diverted-to user).

Selection: Network does not support the restriction of the re-routeing of User-user information element with User information and/or UUS supplementary service requests to users who subscribe to the relevant UUS supplementary service. PICS: SC 5.2.

SSI_N29_01_005 subclauses 5.29.3.2, 5.23.3.2.1 inopportune mandatory Ensure that the IUT, in call state N09 and the diversion service Idle state while UUS1 was requested implicitly in the incoming call request and the diverting user has not subscribed to this UUS supplementary service, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component containing a RerouteingReason parameter indicating "cfu" and including User-user information in the q931InfoElement parameter,

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallRerouteing return result component and enters call state N12 or sends a FACILITY message with a CallRerouteing return result component and remains in call state N09 and does not divert the UUS request (resulting in the sending of a SETUP message without a User-user information element to

the diverted-to user).

Selection: Network supports the restriction of the re-routeing of User-user information element with User information and/or UUS supplementary service requests to users who subscribe to the relevant UUS supplementary service. PICS: SC 5.2.

SSI_N29_01_006 subclauses 5.29.3.2, 5.23.3.2.1 inopportune mandatory Ensure that the IUT, in call state N09 and the diversion service Idle state while UUS1 was requested explicitly in the incoming call request and the diverting user has not subscribed to this UUS supplementary service, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component containing a RerouteingReason parameter indicating "cfu" and a UUSRequest invoke component indicating "service1",

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallRerouteing return result component and enters call state N12 or sends a FACILITY message with a CallRerouteing return result component and remains in call state N09 and does not divert the UUS request (resulting in the sending of a SETUP message without a UserUserService invoke component to the diverted-to user).

Selection: Network supports the restriction of the re-routeing of User-user information element with User information and/or UUS supplementary service requests to users who subscribe to the relevant UUS supplementary service. PICS: SC 5.2.

SSI_N29_01_007 subclauses 5.29.3.2, 5.23.3.2.1 inopportune mandatory Ensure that the IUT, in call state N09 and the diversion service Idle state while UUS2 was requested in the incoming call request and the diverting user has not subscribed to this UUS supplementary service, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component containing a RerouteingReason parameter indicating "cfu" and a UUSRequest invoke component indicating "service2",

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallRerouteing return result component and enters call state N12 or sends a FACILITY message with a CallRerouteing return result component and remains in call state N09 and does not divert the UUS request (resulting in the sending of a SETUP message without a UserUserService invoke component to the diverted-to user).

Selection: Network supports the restriction of the re-routeing of User-user information element with User information and/or UUS supplementary service requests to users who subscribe to the relevant UUS supplementary service. PICS: SC 5.2.

SSI_N29_01_008 subclauses 5.29.3.2, 5.23.3.2.1 inopportune mandatory

Ensure that the IUT, in call state N09 and the diversion service Idle state while UUS3 was requested in the incoming call request and the diverting user has not subscribed to this UUS supplementary service, receiving a valid FACILITY message containing a Facility information element with a CallRerouteing invoke component containing a RerouteingReason parameter indicating "cfu" and a UUSRequest invoke component indicating "service3",

sends a DISCONNECT message with cause value #31 "Normal, unspecified" and a CallRerouteing return result component and enters call state N12 or sends a FACILITY message with a CallRerouteing return result component and remains in call state N09 and does not divert the UUS request (resulting in the sending of a SETUP message without a UserUserService invoke component to the diverted-to user).

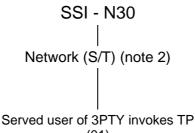
Selection: Network supports the restriction of the re-routeing of User-user information element with User information and/or UUS supplementary service requests to users who subscribe to the relevant UUS supplementary service. PICS: SC 5.2.

Page 64 Draft prETS 300 195-5: June 1996

6.2.30 Interaction between TP and 3PTY

Selection: IUT supports the interaction between TP and 3PTY. PICS: MC 2.5 AND MC 2.11.

6.2.30.1 Test suite substructure



(01)

NOTE 1: Numbers in brackets represent subgroup numbers and are used in TP identifiers.

NOTE 2: No case for TP/3PTY interaction arises at the T reference point.

Figure 23: N30 test suite substructure - level 2

6.2.30.2 Served user of 3PTY invokes TP

SSI_N30_01_001 subclause 5.30.2.1.2 inopportune mandatory Ensure that the IUT, in the 3PTY Active state with CR1 in state N10 (Held) and CR2 in state N10 (Idle), receiving a SUSPEND message for CR1,

sends a SUSPEND REJECT message for CR1 containing cause value #29, "facility rejected" and remains in the same call states and 3PTY state.

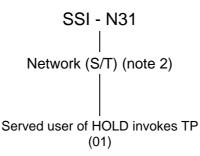
SSI_N30_01_002 subclause 5.30.2.1.2 inopportune mandatory Ensure that the IUT, in the 3PTY Active state with CR1 in state N10 (Held) and CR2 in state N10 (Idle), receiving a SUSPEND message for CR2,

sends a SUSPEND REJECT message for CR2 containing cause value #29, "facility rejected" and remains in the same call states and 3PTY state.

6.2.31 Interaction between HOLD and TP

Selection: IUT supports the interaction between HOLD and TP. PICS: MC 2.25 AND MC 2.5.

6.2.31.1 Test suite substructure



NOTE 1: Numbers in brackets represent subgroup numbers and are used in TP identifiers. NOTE 2: No case for TP/3PTY interaction arises at the T reference point.

Figure 24: N31 test suite substructure - level 2

mandatory

6.2.31.2 Served user of HOLD invokes TP

SSI_N31_01_001 subclause 5.31.2.1.2

Ensure that the IUT, in state N10 and Call Held auxiliary state, receiving a SUSPEND message, sends a SUSPEND REJECT message containing cause value #29, "facility rejected" and remains in the same call state and auxiliary state.

inopportune

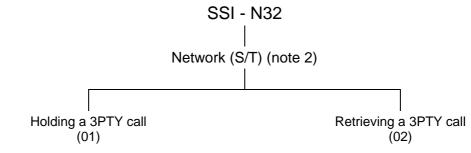
SSI_N31_01_002 subclause 5.31.2.1.2 inopportune mandatory Ensure that the IUT, with CR1 in state N10 (Held) and CR2 in state N10 (Idle), receiving a SUSPEND message for CR2,

sends a SUSPEND REJECT message for CR2 containing cause value #29, "facility rejected" and remains in the same call states and auxiliary states.

6.2.32 Interaction between HOLD and 3PTY

Selection: IUT supports the interaction between HOLD and 3PTY. PICS: MC 2.25 AND MC 2.11.

6.2.32.1 Test suite substructure



NOTE 1: Numbers in brackets represent subgroup numbers and are used in TP identifiers.

NOTE 2: No case for HOLD/3PTY interaction arises at the T reference point.

Figure 25: N32 test suite substructure - level 2

6.2.32.2 Holding a 3PTY call

SSI_N32_01_001 subclause 5.32.2.2 valid mandatory Ensure that the IUT, in the 3PTY Active state with CR1 in state N10 (Idle) and CR2 in state N10 (Held), receiving a HOLD message for CR1,

sends a HOLD ACKNOWLEDGE message for CR1 and enters the Held auxiliary state for CR1, does not send any notification to the remote users and remains in N10 for CR1 and CR2.

6.2.32.3 Retrieving a 3PTY call

SSI_N32_02_001subclause 5.32.2.3validmandatoryEnsure that the IUT, in the 3PTY Active state with CR1 in state N10 (Held) and CR2 in state N10 (Held),
receiving a RETRIEVE message for CR1,

sends a RETRIEVE ACKNOWLEDGE message for CR1 and enters the Idle auxiliary state for CR1, does not send any notification to the remote users and remains in N10 for CR1 and CR2.

SSI_N32_02_002subclause 5.32.2.3inopportunemandatoryEnsure that the IUT, in the 3PTY Active state with CR1 in state N10 (Idle) and CR2 in state N10 (Held),
receiving a RETRIEVE message for CR1,

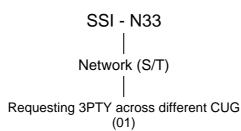
sends a RETRIEVE REJECT message for CR1 with cause #29 "Facility rejected" and remains in the same call states and auxiliary states.

Page 66 Draft prETS 300 195-5: June 1996

6.2.33 Interaction between CUG and 3PTY

Selection: IUT supports the interaction between CUG and 3PTY. PICS: MC 2.8 AND MC 2.11.

6.2.33.1 Test suite substructure



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

Figure 26: N33 test suite substructure - level 2

6.2.33.2 Requesting 3PTY across different CUG

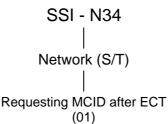
SSI_N33_01_001 subclause 5.33.2.1.2 inopportune mandatory Ensure that the IUT, with CR1 in state N10 (Held) and CR2 in state N10 (Idle), while the two calls were requested using different closed user groups, receiving a FACILITY message for CR1 containing a Facility information element with a Begin3PTY invoke component,

sends a FACILITY message including a Facility information element containing a Begin3PTY return error component indicating "supplementaryServiceInteractionNotAllowed" and remains in the same call states.

6.2.34 Interaction between ECT and MCID

Selection: IUT supports the interaction between ECT and MCID. PICS: MC 2.20 AND MC 2.17.

6.2.34.1 Test suite substructure



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

Figure 27: N34 test suite substructure - level 2

6.2.34.2 Requesting MCID after ECT

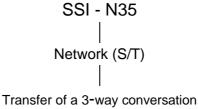
SSI_N34_01_001 subclause 5.34.2.2 inopportune mandatory Ensure that the IUT, in Disconnect indication call state N12 (incoming call) after having accepted an ECT request for the call, receiving a FACILITY message containing a Facility information element with a MCIDRequest invoke component,

sends a FACILITY message including a Facility information element containing a MCIDRequest return error component indicating "supplementaryServiceInteractionNotAllowed" and remains in the same call state.

6.2.35 Interaction between ECT and 3PTY

Selection: IUT supports the interaction between ECT and 3PTY. PICS: MC 2.20 AND MC 2.11.

6.2.35.1 Test suite substructure



(01)

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

Figure 28: N35 test suite substructure - level 2

6.2.35.2 Transfer of a 3-way conversation

SSI_N35_01_001 subclause 5.35.2.1.2 inopportune mandatory Ensure that the IUT, in the 3PTY Active state with CR1 in state N10 (Held) and CR2 in state N10 (Idle), receiving a valid FACILITY message for CR1 containing a Facility information element with an EctExecute invoke component,

sends a FACILITY message for CR1 including a Facility information element containing a EctExecute return error component indicating "supplementaryServiceInteractionNotAllowed" and remains in the same call states.

SSI_N35_01_002subclause 5.35.2.1.2inopportunemandatoryEnsure that the IUT, in the 3PTY Active state (for CR1 and CR2) with CR1 in state N10 (Held), CR2 in
state N10 (Idle) and CR3 in state N10 (Held) receiving a valid FACILITY message for CR3 containing a
Facility information element with an EctExecute invoke component,

sends a FACILITY message for CR1 including a Facility information element containing a EctExecute return error component indicating "supplementaryServiceInteractionNotAllowed" and remains in the same call states.

SSI_N35_01_003 subclause 5.35.2.1.2 inopportune mandatory Ensure that the IUT, in the 3PTY Active state (for CR1 and CR2) with CR1 in state N10 (Held), CR2 in state N10 (Idle) and CR3 in state N10 (Idle), after a Linkld has successfully been requested using CR3, receiving a valid FACILITY message for CR1 containing a Facility information element with an ExplicitEctExecute invoke component,

responds with a FACILITY message for CR1 including a Facility information element containing a ExplicitEctExecute return error component indicating "supplementaryServiceInteractionNotAllowed" and remains in the same call states.

SSI_N35_01_004 subclause 5.35.2.1.2 inopportune mandatory Ensure that the IUT, in the 3PTY Active state (for CR1 and CR2) with CR1 in state N10 (Held), CR2 in state N10 (Idle) and CR3 in state N10 (Idle), after a Linkld has successfully been requested using CR2, receiving a valid FACILITY message for CR1 containing a Facility information element with an ExplicitEctExecute invoke component,

responds with a FACILITY message for CR1 including a Facility information element containing a ExplicitEctExecute return error component indicating "supplementaryServiceInteractionNotAllowed" and remains in the same call states.

6.2.36 Interaction between ECT and UUS

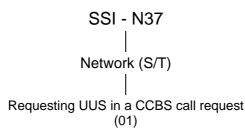
This subclause refers to ETS 300 195-1 [4], subclause 5.36. No test purpose related to the specified supplementary service interaction can be defined as the specified behaviour is not observable at the interface between the network and the served user.

Page 68 Draft prETS 300 195-5: June 1996

6.2.37 Interaction between CCBS and UUS

Selection: IUT supports the interaction between CCBS and UUS. PICS: MC 2.7 AND MC 2.9.

6.2.37.1 Test suite substructure



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

Figure 29: N35 test suite substructure - level 2

6.2.37.2 Requesting UUS in a CCBS call request

SSI_N37_01_001 subclause 5.37.2.1 valid optional Ensure that the IUT, in call state N00 and CCBS Free state, on receipt of a SETUP message containing Bearer capability information elements from the original call and a Facility information element with a CCBSCall invoke component including the CCBSReference from the previously sent

CCBSRemoteUserFree invoke component and a User-user information element,

accepts the UUS request (resulting in the sending of a SETUP message containing a User-user information element to the remote user), continues basic call procedure using the retained call information and enters call state N01.

SSI_N37_01_002 subclause 5.37.2.1 valid optional Ensure that the IUT, in call state N00 and CCBS Free state, on receipt of a SETUP message containing Bearer capability information elements from the original call and a Facility information element with a CCBSCall invoke component including the CCBSReference from the previously sent CCBSRemoteUserFree invoke component and a UserUserService invoke component indicating "service1",

accepts the UUS request (resulting in the sending of a SETUP message containing a Facility information element with a UserUserService invoke component indicating "service1" to the remote user), continues basic call procedure using the retained call information and enters call state N01.

SSI_N37_01_003 subclause 5.37.2.1 valid optional Ensure that the IUT, in call state N00 and CCBS Free state, on receipt of a SETUP message containing Bearer capability information elements from the original call and a Facility information element with a CCBSCall invoke component including the CCBSReference from the previously sent CCBSRemoteUserFree invoke component and a UserUserService invoke component indicating "service2",

accepts the UUS request (resulting in the sending of a SETUP message containing a Facility information element with a UserUserService invoke component indicating "service2" to the remote user), continues basic call procedure using the retained call information and enters call state N01.

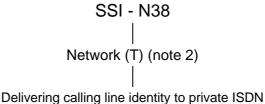
SSI_N37_01_004 subclause 5.37.2.1 valid optional Ensure that the IUT, in call state N00 and CCBS Free state, on receipt of a SETUP message containing Bearer capability information elements from the original call and a Facility information element with a CCBSCall invoke component including the CCBSReference from the previously sent CCBSRemoteUserFree invoke component and a UserUserService invoke component indicating "service3",

accepts the UUS request (resulting in the sending of a SETUP message containing a Facility information element with a UserUserService invoke component indicating "service3" to the remote user), continues basic call procedure using the retained call information and enters call state N01.

6.2.38 Interaction between CCBS and CLIP

Selection: IUT supports the interaction between CCBS and CLIP. PICS: MC 2.7 AND MC 2.1.

6.2.38.1 Test suite substructure



(01)

- NOTE 1: Numbers in brackets represent subgroup numbers and are used in TP identifiers.
- NOTE 2: No specific interaction requirements apply at S/T reference point.

Figure 30: N38 test suite substructure - level 2

6.2.38.2 Delivering calling line identity to private ISDN

Selection: The public network supports the originatingAddress parameter in the CCBS-T-Request invoke component.

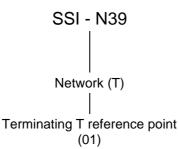
SSI_N38_01_001subclause 5.38.3.2.1validmandatoryEnsure that the IUT, in call state N09, reached by sending a SETUP message with a Calling party numberinformation element containing the number of the remote originating user and receiving a CALLPROCEEDING message, on receipt of a DISCONNECT message containing a Facility informationelement with a CCBS-T-Available invoke component, to request the activation of CCBS,

continues call clearing for that call and sends a REGISTER message with a Facility information element containing the calling party address in the originatingAddress parameter of the CCBS-T-Request invoke component and enters call state N31 for this call.

6.2.39 Interaction between CCBS and CLIR

Selection: IUT supports the interaction between CCBS and CLIR. PICS: MC 2.7 AND MC 2.2.

6.2.39.1 Test suite substructure



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

Figure 31: N39 test suite substructure - level 2

6.2.39.2 Terminating T reference point

Selection: The public network supports the originatingAddress parameter in the CCBS-T-Request invoke component.

SSI_N39_01_001subclause 5.39.3.2.1validmandatoryEnsure that the IUT, in call state N09, reached by sending a SETUP message with a Calling party numberinformation element containing the number of the remote originating user which has subscribed to CLIRbut has allowed the presentation of its number and receiving a CALL PROCEEDING message, on receiptof a DISCONNECT message containing a Facility information element with a CCBS-T-Available invokecomponent, to request the activation of CCBS,

continues call clearing for that call and sends a REGISTER message with a Facility information element containing the calling party address in the originatingAddress parameter and a PresentationAllowedIndicator set to "true" in the CCBS-T-Request invoke component and enters call state N31 for this call.

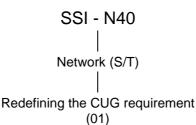
SSI_N39_01_002subclause 5.39.3.2.1validmandatoryEnsure that the IUT, in call state N09, reached by sending a SETUP message without a Calling party
number information element, when the remote originating user has subscribed to CLIR and restricted the
presentation of its number and receiving a CALL PROCEEDING message, on receipt of a DISCONNECT
message containing a Facility information element with a CCBS-T-Available invoke component, to request
the activation of CCBS,

continues call clearing for that call and sends a REGISTER message with a Facility information element containing a CCBS-T-Request invoke component without the originatingAddress and the PresentationAllowedIndicator parameter and enters call state N31 for this call.

6.2.40 Interaction between CCBS and CUG

Selection: IUT supports the interaction between CCBS and CUG. PICS: MC 2.7 AND MC 2.9.

6.2.40.1 Test suite substructure



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

Figure 32: N40 test suite substructure - level 2

6.2.40.2 Redefining the CUG requirement (S/T ref. point)

SSI_N40_01_001subclause 5.40.2.2inopportunemandatoryEnsure that the IUT, in call state N00 and CCBS Free state, receiving a SETUP message with a Facilityinformation element including a CCBSCall invoke component and a CUGCall invoke component while theoriginal call contained a CUGCall invoke component with identical CUG requirements,
send a CALL PROCEEDING message and enters call state N03.

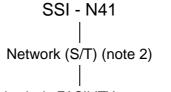
SSI_N40_01_002subclause 5.40.2.2inopportunemandatoryEnsure that the IUT, in call state N00 and CCBS Free state, receiving a SETUP message with a Facilityinformation element including a CCBSCall invoke component and a CUGCall invoke component while theoriginal call contained a CUGCall invoke component with different CUG requirements,

sends a DISCONNECT or a RELEASE COMPLETE message containing a Facility information element with a CUGCall return error component indicating "invalidOrUnregisteredCUGIndex" and a Cause information element indicating cause #29 "facility rejected" and enters call state N12 or remains in call state N00.

6.2.41 Interaction between CCBS and MSN

Selection: IUT supports the interaction between CCBS and MSN. PICS: MC 2.7 AND MC 2.4.

6.2.41.1 Test suite substructure



Calling user identity in FACILITY messages to user A (01)

NOTE 1: Numbers in brackets represent subgroup numbers and are used in TP identifiers.

NOTE 2: No case for CCBS/MSN interaction arises at the T reference point.

Figure 33: N41 test suite substructure - level 2

6.2.41.2 Calling user identity in FACILITY messages to user A

SSI_N41_01_001subclause 5.41.2.1.1validmandatoryEnsure that the IUT, in call state N00 and CCBS Activated state, while the MSN supplementary service is
also provided to the served user, having checked that the user is neither busy nor CCBS busy in order to
indicate that it is prepared for the establishment of the requested CCBS call,

sends a FACILITY message using the dummy call reference containing a Facility information element with a CCBSRemoteUserFree invoke component and a Called party number information element with the retained calling user's identity and remains in call state N00.

SSI_N41_01_002 subclause 5.41.2.1.1 valid mandatory

Ensure that the IUT, in call state N00 and CCBS Free state, while the MSN supplementary service is also provided to the served user, on receipt of a SETUP message containing a Facility information element with a CCBSCall invoke component,

sends a CALL PROCEEDING message and enters call state N09 and sends a FACILITY message using the dummy call reference containing a Facility information element with a CCBSErase invoke component and a Called party number information element with the retained calling user's identity.

SSI_N41_01_003subclause 5.41.2.1.1validmandatoryEnsure that the IUT, in call state N10 and CCBS Activated state, while the MSN supplementary service is
also provided to the served user, having determined that the user is either busy or CCBS busy, in order to
inform the user that the remote user is not busy,

sends a FACILITY message using the dummy call reference containing a Facility information element with a CCBSBFree invoke component and a Called party number information element with the retained calling user's identity and remains in call state N10.

SSI_N41_01_004 subclause 5.41.2.1.1 valid mandatory Ensure that the IUT, in call state N00 and CCBS Activated state, while the MSN supplementary service is also provided to the served user, to determine if the served user is not busy,

sends a FACILITY message using the dummy call reference containing a Facility information element with a CCBSStatusRequest invoke component and a Called party number information element with the retained calling user's identity and remains in call state N00.

6.2.42 Interaction between CCBS and SUB

This subclause refers to ETS 300 195-1 [4], subclause 5.42. No test purpose related to the specified supplementary service interaction can be defined as the specified behaviour is not observable at the interface between the remote network and the remote user.

Page 72 Draft prETS 300 195-5: June 1996

6.2.43 Interaction between FPH and COLP

This subclause refers to ETS 300 195-1 [4], subclause 5.43. No test purpose related to the specified supplementary service interaction can be defined as the specified behaviour is not observable at the interface between the network and the user.

6.2.44 Interaction between ECT and CUG

Selection: IUT supports the interaction between ECT and CUG. PICS: MC 2.20 AND MC 2.8.

6.2.44.1 Test suite substructure

SSI - N44 | Network (S/T) | Requesting ECT across different CUG (01)

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

Figure 34: N44 test suite substructure - level 2

6.2.44.2 Requesting ECT across different CUG

SSI_N44_01_001 subclause 5.44.2.1.2 inopportune mandatory Ensure that the IUT, with CR1 in state N10 (Held) and CR2 in state N10 (Idle), while the two calls were requested using different closed user groups, receiving a FACILITY message for CR1 containing a Facility information element with an EctExecute invoke component,

sends a FACILITY message for CR1 including a Facility information element containing a EctExecute return error component indicating "supplementaryServiceInteractionNotAllowed" and remains in the same call states.

SSI_N44_01_002 subclause 5.44.2.1.2 inopportune mandatory

Ensure that the IUT, with CR1 in state N10 (Held), CR2 in state N10 (Idle) and CR3 in state N10 (Idle), after successfully requesting a LinkId using CR2, receiving a valid FACILITY message for CR1 containing a Facility information element with an ExplicitEctExecute invoke component while CR1 and CR2 are associated with two calls requested using different closed user groups,

sends a FACILITY message for CR1 including a Facility information element containing a ExplicitEctExecute return error component indicating "supplementaryServiceInteractionNotAllowed" and remains in the same call states.

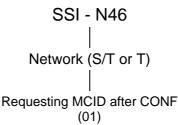
6.2.45 Interaction between ECT and TP

This subclause refers to ETS 300 195-1 [4], subclause 5.45. No test purpose related to the specified supplementary service interaction can be defined as the specified behaviour is not observable at the interface between the network and the user.

6.2.46 Interaction between CONF and MCID

Selection: IUT supports the interaction between CONF and MCID. PICS: MC 2.18 AND MC 2.17.

6.2.46.1 Test suite substructure



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

Figure 35: N46 test suite substructure - level 2

6.2.46.2 Requesting MCID after CONF

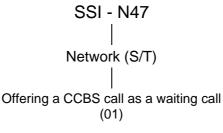
 SSI_N46_01_001
 subclause 5.46.2.2
 inopportune
 mandatory

 Ensure that the IUT, in Active call state N10 (incoming call), where this call is a conference call, receiving a FACILITY message containing a Facility information element with a MCIDRequest invoke component, sends a FACILITY message including a Facility information element containing a MCIDRequest return error component indicating "supplementaryServiceInteractionNotAllowed" and remains in the same call state.

6.2.47 Interaction between CCBS and CW

Selection: IUT supports the interaction between CCBS and CW. PICS: MC 2.7 AND MC 2.6.

6.2.47.1 Test suite substructure



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

Figure 36: N47 test suite substructure - level 2

6.2.47.2 Offering a CCBS call as a waiting call

SSI_N47_01_001 subclause 5.47.2.1 valid mandatory Ensure that the IUT, in call state N00 and CCBS Free state (at user B), to offer the CCBS call to user B when a channels busy condition is encountered but a network determined user busy condition does not result,

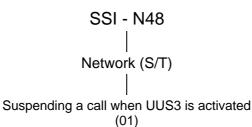
sends a SETUP message with a Channel identification information element indicating "no B-channel available" and enters call state N06.

Page 74 Draft prETS 300 195-5: June 1996

6.2.48 Interaction between UUS and TP

Selection: IUT supports the interaction between UUS and TP. PICS: MC 2.9 AND MC 2.5.

6.2.48.1 Test suite substructure



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

Figure 37: N48 test suite substructure - level 2

6.2.48.2 Suspending a call when UUS3 is activated

SSI_N48_01_001subclause 5.48.2.1validmandatoryEnsure that the IUT, in call state N10 and in the UUS active state, receiving a valid SUSPEND message,
sends a SUSPEND ACKNOWLEDGE message and enters call state N00.SUSPEND ACKNOWLEDGE

SSI_N48_01_002subclause 5.48.2.2inopportuneoptionalEnsure that the IUT, in call state N10 and in the UUS Requesting Network Request state, receiving a validSUSPEND message,

sends a SUSPEND REJECT message with cause value #29 "facility rejected" and remains in the same call state.

7 Compliance

An ATS which complies with this TSS&TP specification shall:

- a) consist of a set of test cases corresponding to the set or to a subset of the TPs specified in clause 6;
- b) use a TSS which is an appropriate subset of the whole of the TSS specified in clause 5;
- c) use the same naming conventions for the test groups and test cases;
- d) maintain the relationship specified in clause 6 between the test groups and TPs and the entries in the PICS proforma to be used for test case deselection;
- e) comply with ISO/IEC 9646-2 [10].

In the case of a) or b) above, a subset shall be used only where a particular Abstract Test Method (ATM) makes some TPs untestable. All testable TPs from clause 6 shall be included in a compliant ATS.

8 Requirements for a comprehensive testing service

As a minimum the Remote test method, as specified in ISO/IEC 9646-2 [10], shall be used by any organization claiming to provide a comprehensive testing service for network equipment claiming conformance to ETS 300 195-1 [4].

History

Document history			
June 1996	Public Enquiry	PE 108:	1996-06-24 to 1996-10-18