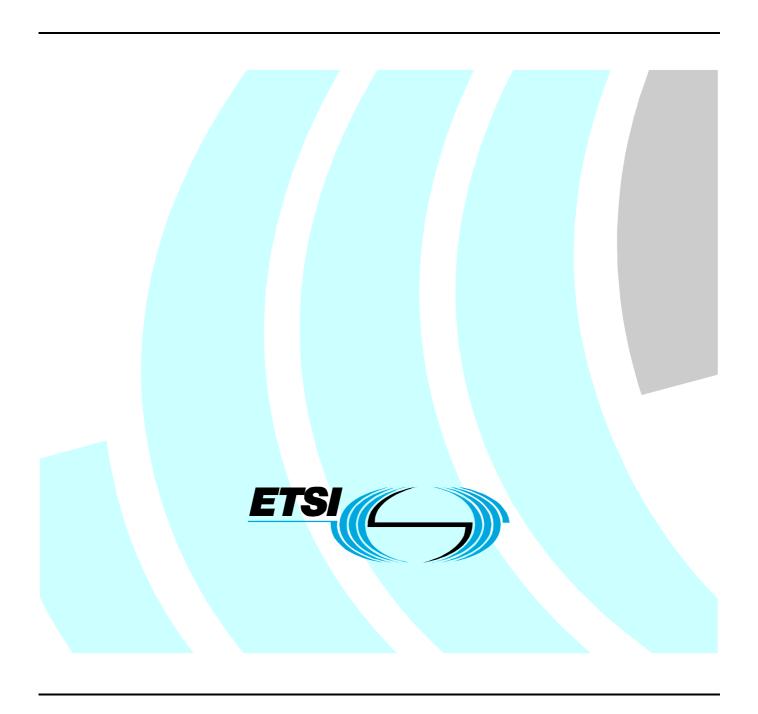
ETSI TS 102 112-1 V1.1.1 (2002-09)

Technical Specification

Services and Protocols for Advanced Networks (SPAN); Network Integration Testing between IN, PLMN AND ISDN Part 1: Test Suite Structure and Test purposes (TSS&TP)



Reference

DTS/SPAN-130307-1

Keywords

IN, ISDN, NIT, PLMN, testing, TSS&TP

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Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Services and Protocols for Advanced Networks (SPAN).

The present document is part 1 of a multi-part deliverable covering the Network Integration Testing between IN, PLMN and ISDN as identified below:

- Part 1: "Test Suite Structure and Test Purposes (TSS&TP)";
- Part 2: "Implementation Conformance Statement (ICS), partial Implementation eXtra Information for Testing (IXIT) proformas and Abstract Test Suite (ATS)".

The present document was developed by EURESCOM P1106 as Deliverable 2 Volume 3 and made freely and publicly available to ETSI TC SPAN for publication.

Introduction

The present document contains the Test Suite Structure and Test Purposes (TSS&TP) for Network Integration Testing for the European ISDN and PLMN, covering the most used IN services and the interworking between the mobile and fix networks. All bearer services (and associated teleservices) and supplementary services are checked for interworking capability and compatibility, in the European ISDN and PLMN.

1 Scope

The present document specifies the Test Suite Structure and Test Purposes (TSS&TP) for Network Integration Testing (NIT) to verify the overall compatibility for the most used IN services based on the CS3 and the INAP/CAP/ISUP interworking between the mobile and fix networks.

Network Integration Testing will assure that the appropriate requested features pass between an ISDN subscriber and the mobile subscriber across the national or international ISUP (ISUP V2) interface and the IN interfaces CAP/INAP.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication and/or edition number or version number) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.
- [1] ETSI EN 300 403-1: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 1: Protocol specification [ITU-T Recommendation Q.931 (1993), modified]".
- [2] ETSI ETS 300 083: "Integrated Services Digital Network (ISDN); Circuit mode structured bearer service category usable for speech information transfer; Terminal requirements for end-to-end compatibility".
- [3] ETSI ETS 300 084: "Integrated Services Digital Network (ISDN); Circuit mode structured bearer service category usable for 3,1 kHz audio information transfer; Terminal requirements necessary for end-to-end compatibility".
- [4] ETSI EN 300 267-1: "Integrated Services Digital Network (ISDN); Telephony 7 kHz, videotelephony, audiographic conference and videoconference teleservices; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [5] ETSI ETS 300 080: "Integrated Services Digital Network (ISDN); ISDN lower layer protocols for telematic terminals".
- [6] ETSI ETS 300 103: "Integrated Services Digital Network (ISDN); Support of CCITT Recommendation X.21, X.21 bis and X.20 bis based Data Terminal Equipments (DTEs) by an ISDN Synchronous and asynchronous terminal adaptation functions ".
- [7] ETSI EN 300 138-1: "Integrated Services Digital Network (ISDN); Closed User Group (CUG) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [8] ETSI EN 300 207-1: "Integrated Services Digital Network (ISDN); Diversion supplementary services; Digital Subscriber Signalling System No. One (DSS1); Part 1: Protocol specification".
- [9] ETSI ETS 300 289 (1994): "Business TeleCommunications (BTC); 64 kbit/s digital unrestricted leased line with octet integrity (D64U); Connection characteristics".
- [10] ISO/IEC 9646-1: "Information Technology-Open Systems Interconnection- Conformance testing methodology and framework, Part 1: General Concepts".
- [11] ETSI EN 300 940 (GSM 04.08): "Digital cellular telecommunications system (Phase 2+) (GSM); Mobile radio interface layer 3 specification".

[12]	ITU-T Recommendation Q.699: "Interworking between the digital Subscriber Signalling System Layer 3 protocol and the Signalling System No.7 ISDN User part".
[13]	ITU-T Recommendation Q.764: "Signalling System No. 7 - ISDN User Part signalling procedures".
[14]	ETSI TS 129 078: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); Customized Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification (3GPP TS 29.078 version 4.0.0 Release 4)".
[15]	ETSI EN 301 931-2 (V1.1.2): "Intelligent Network (IN); Intelligent Network Capability Set 3 (CS3); Intelligent Network Application Protocol (INAP); Protocol specification; Part 2: SCF-SSF interface".
[16]	ITU-T Recommendation Q.1601: "Signalling system No. 7 - Interaction between N-ISDN and INAP CS2".
[17]	ISO/IEC 7776: "Information technology - Telecommunications and information exchange between systems - High-level data link control procedures - Description of the X.25 LAPB-compatible DTE data link procedures".
[18]	ISO/IEC 8208: "Information technology - Data communications - X.25 Packet Layer Protocol for Data Terminal Equipment".
[19]	ETSI TS 101 285 (GSM 02.78): "Digital cellular telecommunications system (Phase 2+); Customized Applications for Mobile network Enhanced Logic (CAMEL); Service definition; Stage 1".
[20]	ETSI TS 101 044 (GSM 03.78): "Digital cellular telecommunications system (Phase 2+); Customized Applications for Mobile network Enhanced Logic (CAMEL); Stage 2".
[21]	ETSI TS 101 046 (GSM 09.78): "Digital cellular telecommunications system (Phase 2+); Customized Applications for Mobile network Enhanced Logic (CAMEL); CAMEL Application Part (CAP) specification".

3 Definitions

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

3.1 Definitions related to conformance testing

Abstract Test Case: Refer to ISO/IEC 9646-1 [38].

Abstract Test Suite: Refer to ISO/IEC 9646-1 [38].

Implementation Under Test: Refer to ISO/IEC 9646-1 [38].

Lower Tester: Refer to ISO/IEC 9646-1 [38].

Implementation Conformance Statement (ICS) proforma: Refer to ISO/IEC 9646-1 [38].

Implementation eXtra Information for Testing (IXIT) proforma: Refer to ISO/IEC 9646-1 [38].

Point of Control and Observation: Refer to ISO/IEC 9646-1 [38].

Protocol Implementation Conformance Statement: Refer to ISO/IEC 9646-1 [38].

Protocol Implementation eXtra Information for Testing: Refer to ISO/IEC 9646-1 [38].

System Under Test: Refer to ISO/IEC 9646-1 [38].

Test Purpose: Refer to ISO/IEC 9646-1 [38].

3.2 Definitions related to test purpose descriptions

BC=speech: a Bearer capability information element with its information transfer capability field set to "speech" and its user information layer one protocol field set to "G.711 A-law" [2]

BC=3,1 kHz audio: a Bearer capability information element with its information transfer capability field set to "3,1 kHz Audio" and its user information layer one protocol field set to "G.711 A-law" [3]

BC=UDI: a Bearer capability information element with its information transfer capability set to "unrestricted digital information" [1]

BC=UDI/TA: a Bearer capability information element with its information transfer capability set to "unrestricted digital information with tones/announcements" and its user information layer one protocol field set to "Recommendations H.221 and H.242" [4]

BC= V110/X30: a Bearer capability information element with its information transfer capability set to "unrestricted digital information" and its user information layer 1 field set to "ITUstandardized rate adaption V.110/X.30", including sync/async and user rate values [1].

HLC=telephony: a High Layer compatibility information element with its high layer characteristics identification field set to "telephony" [28]

HLC=videotelephony_ic: a High Layer compatibility information element with its high layer characteristics identification field set to "videotelephony (Recommendation F.721)" and its extended audiovisual characteristics field set to "capability set of initial channel of Recommendation H.221" [4]

HLC = **Facsimile G2/G3:** a High Layer compatibility information element with its high layer characteristics identification field set to "facsimile group 2/3 (Recommendation F.182)" [1]

HLC=facsimile group 4: a High Layer compatibility information element with its high layer characteristics identification field set to "facsimile group 4 class 1" [1], [5]

HLC=telex: a High Layer compatibility information element with its high layer characteristics identification field set to "telex" [1]

LLC=telematic_term: a Low Layer compatibility information element with its user information layer 2 field indicating "ISO/IEC 7776 DTE-DTE operation" and user information layer 3 field indicating "ISO/IEC 8208" [1], [5]

LLC=voice band data via modem: a Low Layer compatibility information element with its user information layer 1 field indicating a "modem type" coding [1]

LLC = **V110/X30**: a Low Layer compatibility information element with its user information layer 1 field indicating "ITUstandardized rate adaption V.110/X.30" and including sync/async and user rate values [6]

SI=UPVP: Screening Indicator forwarded to the served user coded as "User-provided, verified and passed"

SI=NP: Screening Indicator coded as "Network provided" [1]

PI=PR: Presentation Indicator coded as "Presentation restricted" [1]

TON=international: Type of number coded as "international" [1]

TON=unknown: Type of number coded as "unknown" [1]

NPI=unknown: Numbering plan identification coded as "unknown" [1]

CUG default request: the calling user do not include in the outgoing SETUP message a explicit request for the CUG supplementary service [11]

UI length=32: the length of the User information field of the User-user information element is 35 octets

CF active: the call forwarding (U, B or NR) supplementary service is already activated with the address of user C [17]

GSM - Bearer service categories: all bearer service categories provide information transfer between R/S reference points and allow the use of sub-rate information streams which are rate adapted.

GSM-BC=UD: Unrestricted Digital Information (UD); Provides the transfer of unrestricted digital information.

GSM-BC= 3,1 kHz (External to the PLMN): Used to select a "3,1 kHz audio" interworking function at the MSC. This service category is used when interworking with the ISDN or PSTN "3,1 kHz audio" service and includes the capability to select a modem at the interworking function. "External to the PLMN" indicates that the "3,1 kHz audio" service is only used outside of the PLMN, in the ISDN/PSTN. The connection within the PLMN, user access point to the interworking function, is an unrestricted digital connection.

Alternate Speech/Data: Provides the capability to swap between speech and data during a call.

- If either the speech or data portion of the call requires a full rate channel, a full rate channel shall be used for the duration of the call.
- The access interface at the mobile station for the data portion is assumed to be a standard data interface. Some means must be provided to select the speech/data capability.

Speech followed by Data: Provides a speech connection first and then at some time while the call is in progress, the user can switch to a data connection. The user cannot switch back to speech after the data portion. If either the speech or data portion of the call requires a full rate channel, a full rate channel shall be used from the start of the call. The network may then change to a half rate channel for the data portion.

GSM teleservices: Teleservices supported by a GSM PLMN are described by a number of attributes which are intended to be largely independent. They are grouped into three categories:

- High layer attributes.
- Low layer attributes (describing the Bearer capabilities which support the Teleservice).
- Information transfer attributes.
- Access attributes.
- General attributes.

GSM-BC= Speech (TS 11): This service provides the transmission of speech information and audible signalling tones of the PSTN/ISDN. In the GSM PLMN and the fixed network processing technique appropriate for speech such as analogue transmission, echo cancellation and low bit rate voice encoding may be used.

Alternate speech and facsimile group 3 (TS 61): This Teleservice allows the connection of ITUgroup 3 fax apparatus (send and/or receive) to the mobile stations of a GSM PLMN. Facsimile connections may be established to/from group 3 apparatus in the PSTN, ISDN or GSM PLMN.

Automatic Facs. group 3 (TS 62): This teleservice allows connection of ITUgroup 3 fax apparatus to and from the mobile stations of a GSM PLMN. Facsimile connections may be established to and from group 3 apparatus in the PSTN, ISDN or GSM PLMN.

4 Abbreviations

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

3PTY Three-ParTY conference
ATS Abstract Test Suite
BC Bearer Capability information element
BS Base Station

BSC Base Station Controller
BSS Base Station Sub-system
BSS Base Station System

CAMEL Customized Applications for Mobile network Enhanced Logic

CD Call Deflection
CFB Call Forwarding Busy

CFNR Call Forwarding No Response

CFNRc Call Forwarding on mobile subscriber Not Reachable

CFNRy Call Forwarding on No Reply

CFU Call Forwarding Unconditional
CLIP Calling Line Identification Presentation
CLIR Calling Line Identification Restriction
COLP COnnected Line identification Presentation
COLR COnnected Line identification Restriction

CONF CONFerence (add-on)
CUG Closed User Group
CW Call Waiting

DFC Disconnect Forward Connection

ECT Explicit Call Transfer FPH FreePHone service GMSC Gateway MSC

GSM Global System for Mobile communication
HLC High Layer Compatibility information element

HLR Home Location Register

HPLMN Home Public Land Mobile Network

IN Intelligent Network

INAP Intelligent Network Application Part

IP Internet Protocol

ISDN Integrated Services Digital Network

ISUP ISDN User Part

LAN Locale Access Network

LLC Low Layer Compatibility information element

MAP Mobile Application Part
MCID Malicious Call IDentification

MS Mobile Station MS Mobile Subscriber MSC Mobile Switching Center MT Mobile Terminal Mobile Terminated MT **MTP** Message Transfer Part NIT **Network Integration Testing ONP** Open Network Provision Open Systems Interconnection OSI

PI Presentation indicator

PICS Protocol Implementation Conformance Statement
PIXIT Protocol Implementation eXtra Information for Testing

PLMN Public Land Mobile Network
PSTN Public Switched Telephone Network
SCCP Signaling Connection and Control Part

SCF Service Control Function SCP Service Control Point SGSN Serving GPRS Support Node

SI Screening Indicator
SMS Short Message Service
SS Supplementary Service
SSP Service Switching Point

SUB Subaddressing

TCAP Transaction Capabilities Application Part

TON Type Of Number TP Terminal Portability

TP Test Plant

TSS Test Suite Structure

TSS&TP Test Suite Structure and Test Purposes
UD Unrestricted Digital information

UMTS Universal Mobile Telecommunications System

UUS User-to-User Signalling

UUS1 UUS service 1 UUS2 UUS service 2 UUS3 UUS service 3

VLR Visitor Location Register VLR Visitor Location Register VPLMN Visited Public Land Mobile Network

5 Numbering Scheme

Pos. 1: Network of the A-Subscriber Pos. 2: Network of the B-Subscriber Pos. 3: Network of the C-Subscriber Pos. 4: Network of the D-Subscriber Pos. 5: Network of the E-Subscriber

The following Network Codes apply:

.: No such network used (used e.g. for C-Subscriber in successful A to B Calls)

(underscore makes it easier to read the name)

P: PSTN I: ISDN

G: GSM (w/ HCSCD & GPRS)

(Extensions will be added when needed)

Pos. 6 and 7: Bearer- or Teleservice involved

xx: defined per PIXIT value.

NOTE: This may be appropriate for Test Purposes (provided the Test Purpose states for which Bearer- and/or Tele Services it should be tested). It is however NOT appropriate for Test Cases since it would be

detrimental to Test Automation:

- SP: Speech;

- AU: 3,1 kHz Audio;

- UD: UDI;

- FX: Facsimile G3;

- HA: HSCSD - 3,1 kHz audio;

- HU: HSCSD - UDI.

Pos. 8 and 9:

__: No Supplementary Services Involved / Successful _U: No Supplementary Services Involved / Unsuccessful

SS: Supplementary Services Involved SI: Supplementary Services interaction

SN: Nonsymmetrical Supplementary Services Involved

ST: Supplementary Services transparent

IN SERVICES

Number translation services:

N_: No Supplementary Services Involved / Basic Call Successful/Number translation services
 NU: No Supplementary Services Involved / Basic Call Unsuccessful/Number translation services

NS: Supplementary Services Involved / Number translation services NI: Supplementary Services interaction / Number translation services

NN: Nonsymmetrical Supplementary Services Involved / Number translation services

NT: Supplementary Services transparent to IN / Number translation services

Services with user interactive dialogue:

I_: No Supplementary Services Involved / Basic Call Successful/Services with user interactive

dialogue

IU: No Supplementary Services Involved / Basic Call Unsuccessful/ Services with user interactive

dialogue

IS: Supplementary Services Involved / Services with user interactive dialogue
II: Supplementary Services interaction / Services with user interactive dialogue

IN: Nonsymmetrical Supplementary Services Involved / Services with user interactive dialogue

IT: Supplementary Services transparent to IN / Services with user interactive dialogue

Other services:

O_: No Supplementary Services Involved / Basic Call Successful/ Other services
OU: No Supplementary Services Involved / Basic Call Unsuccessful/ Other services

OS: Supplementary Services Involved / Other services
OI: Supplementary Services interaction / Other services

ON: Non symmetrical Supplementary Services Involved / Other services

OT: Supplementary Services not impact by IN / Other services

Pos. 10 to 20: YYYY Name of individual Test Group (if needed) If supplementary services are involved the following codes are used.

Services	Name of individual test group
3PTY	3PTY
Call Barring services	CBS
Call Barring services outgoing	CBSo
CCBS	CCBS
CD	CD
CFB	CFB
CFNR	CFNR
CFU	CFU
CLIP	CLIP
CLIR	CLIR
COLP	COLP
COLR	COLR
CONF	CONF
CUG	CUG
CW	CW
ECT	ECT
HOLD	HOLD
MCID	MCID
MPTY	MPTY
SUB	SUB
TP	TP
UUS1	UUS1
UUS1 implicit	UUS1i
UUS1 explicit	UUS1e

Pos. Last two positions: XX Number of individual Test Purpose.

5.1 Examples

Basic Call:

Speech					IGSPN_xx						
1	2	3	4	5	6	7	8	9	10	11	
I	G		_		S	Р	N		Х	Х	

Supplementary Services:

		CLIP					IGxxSSCLIP xx								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
	G			<u> </u>	X	Х	N	S	С	L	I	Р	Х	Х	

6 Test Suite Structure (TSS)

6.1 Support of IN services in the mobile network Mobile - Mobile

6.1.1 Number translation services

Number

translation C - Plane / U-Plane

6.1.2 Services with user interactive dialogue

Interactive

dialogue C - Plane / U-Plane

Basic_Call Successful Speech GG_SPI_xx

Unsuccessful Speech GG_SPIUxx

6.1.3 Supplementary services

Supplementary Services

Control - Plane Services impact by IN CLIP GG xx NS CLIP xx CLIR GG xx NS CLIR xx COLP GG xx NS COLP xx CFxx GG xx NS CFxx CFU GG xx NS CFUxx CFB GG xx NS CFB xx **CFNR** GG xx NS CFNR xx CCBS GG xx NS CCBS xx

6.2 Number translation services between mobile and fixed networks

6.2.1 Number translation services between mobile and fixed networks

Number Translation

Services Control – Plane

6.2.2 Services with user interactive dialogue between mobile and fixed networks

		Unsuccessful	IG IUxx
dialogue ISDN/GSM	Control – Plane Basic Call	Successful	IG I xx
Services with user interactive			

6.2.3 Supplementary services between mobile and fixed networks

Supplementary Services		
Control – Plane	Services impa	act
	by IN	
	CLIP	IGxx NS CLIPxx
	CLIR	IGxx NS CLIRxx
	COLP	IGxx NS COLPxx
	CFxx	IGxx NS CFxx
	CFU	IGxx NS CFUxx
	CFB	IGxx NS CFB xx
	CFNRy	IGxx NS CFNR xx
	CCBS	IGxx NS CCBS xx
	MCID	IG xx NS MCIDxx

6.3 Support of IN services in the fixed network

6.3.1 Number translation services in fixed networks

Number Translation Services	Control – Plane		
ISDN	Basic_Call	Successful	IIxxN_xx
		Unsuccessful	IIxxNUxx

6.3.2 Services with user interactive dialogue

Services with user interactive dialogue ISDN/GSM	Control – Plane Basic_Call	Successful	_ _xx
		Unsuccessful	IIIUxx

xx NS ECT xx

6.3.3 Supplementary services

Supplementary Services

S		
Control – Plane	Services imp	pact
	by IN	
	CLIP	IIxx NS CLIPxx
	CLIR	IIxx NS CLIRxx
	COLP	IIxx NS COLPxx
	CFxx	IIxx NS CFxx
	CFU	IIxx NS CFUxx
	CFB	IIxx NS CFB xx
	CFNR	IIxx NS CFNR xx
	CD	IIxx NS CDxx
	CONF	IIxx NS CONFxx
	CCBS	IIxx NS CCBS xx
	UUS1	IIxx NS UUS1xx
	UUS2	IIxx NS UUS2xx
	UUS3	IIxx NS UUS3xx
	MCID	IIxx NS MCIDxx

ECT

7 Test purposes

The following note applied to all tables.

NOTE: Parameters values of either ISUP/CAP interface or A/CAP interface are used only for HSCSD.

7.1 Support of IN services in the mobile network, Mobile-Mobile, Mobile - Fixed Networks

7.1.1 IN configurations

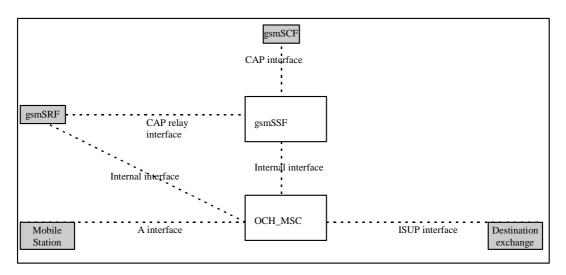


Figure 1: Outgoing case (gsmSSF relay)

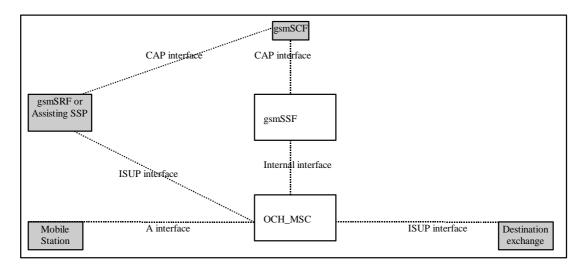


Figure 2: Outgoing case (direct path gsmSCF to gsmSRF or assist with relay)

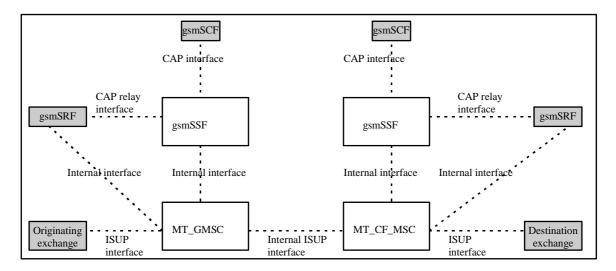


Figure 3: Terminating GMSC case (gsmSSF relay)

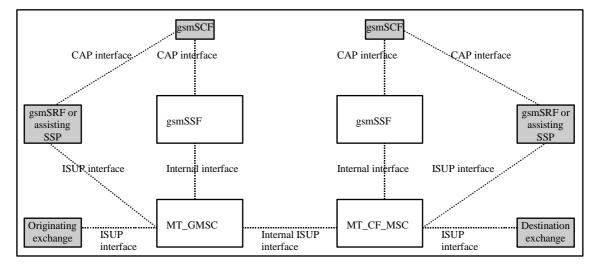


Figure 4: Terminating GMSC case (direct path gsmSCF to gsmSRF or assist with relay)

7.1.2 Test purposes for GSM to GSM, Basic call

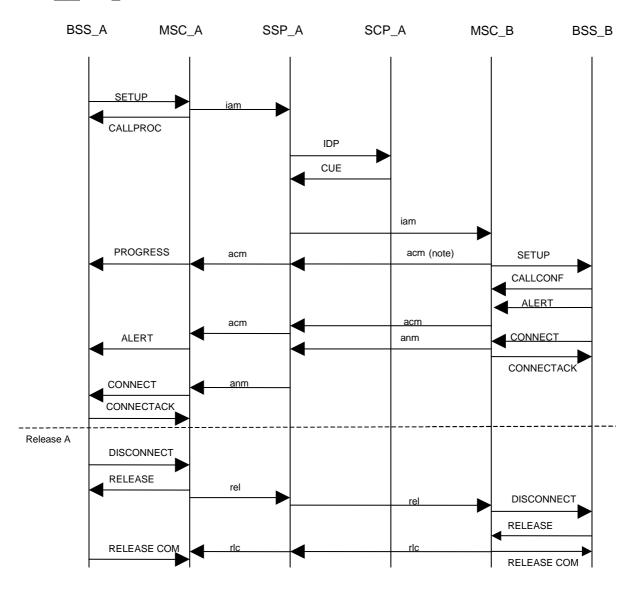
7.1.2.1 Successful

Successful	

00	OCM not to:	Other and a
GGxx N_ 01	GSM ref. to:	Other ref.:
	EN 300 940	
	TS 101 285 (GSM 02.78) St 1	
	TS 101 044 (GSM 03.78) St 2	
T00 (TS 101 046 (GSM 09.78) St 3	
TSS reference:	GSM to GSM/ Number translation s	services/Successful
GSM selection	Numb_Trans	
criteria orign.:		
GSM selection	Numb_Trans	
criteria term.:		
Test purpose:	Verify that the Call is routed to the Called Party Number with the Continue operation.	
	Parameters which were received in the IAM and are not replaced by parameters of the	
	Continue operation are treated according to the normal procedures.	
	Pre test Conditions:	
	A-subscriber provisioned in HLR fo	
	Location update performed for origi	
D00 / D0	Terminating B-Subscriber routed to	ISUP link
PCO / PO	Initial Detection point	
ISUP/CAP Interface	Verify that the IUT can successfully map the IAM parameter IAM_PAR_ID to the	
parameter	InitialDP parameter InitialIDP_PAR_ID (see annex C).	
Values (note):	Receiving of Continue message	
	On receipt of a Continue operation from the SCP call processing is resumed. The SSP may modify signalling information received from the preceding exchange	
	according to the capabilities used on the outgoing route. Signalling information that may	
	be changed are nature of connection indicator and propagation delay counter. Other	
	signalling information is passed on transparently, e.g. the access transport parameter, user service information, etc. The order of information elements carried in the access	
	transport parameter received from the incoming exchange shall be retained.	
	Sending of backward messages	
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or	
	in-band information, progress), CON and ANM.	
	Receiving of Release message	
PCO / PO	Verify that the IUT can successfully release the call like an ordinary transit exchange. Initial Detection point	
A/CAP interface	Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP	
parameter		
Values (note):	parameter InitialIDP_PAR_ID (see annex C). Sending of backward messages	
values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,	
	ALERTING, PROGRESS or CONN	
	Receiving of a Release message	1201 to the originating olde.
	Verify that the IUT can successfully	release the call
GSM parameter	GSM-BC = GSM-BC_ID	Totado trio dam
values orign.:	synchronous/ asynchronous mo	nde: MODE
· · · · · · · · · · · · · · · · · · ·	user rate: USER RATE	
	fixed network user rate: FNU_R	ATE (note).
	maximum number of traffic char	
	air interface user rate: AIU_RAT	
	acceptable channel coding: TCI	
	LLC = BC_ID	
	synchronous/ asynchronous mo	ode: MODE
	user rate: USER_RATE	
	HLC = HLC_ID	
L	1	

GGxx N_ 01	GSM ref. to: EN 300 940	Other ref.:
	TS 101 285 (GSM 02.78) St 1	
	TS 101 044 (GSM 03.78) St 2	
	TS 101 046 (GSM 09.78) St 3	
GSM parameter	GSM-BC = GSM-BC_ID	
values term.:	synchronous/ asynchronous mode: MODE user rate: USER_RATE	
	LLC = synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE	
	HLC = HLC_ID	
Comments:		



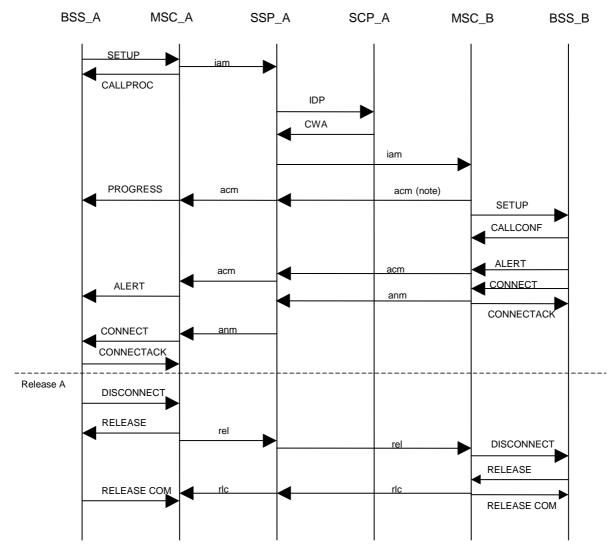


NOTE: The sending of an early ACM message is optional.

Figure 5: Number translation service flow with Continue Message

	10011	
GGxx N_ 02	GSM ref. to:	Other ref.:
	EN 300 940	
	TS 101 285 (GSM 02.78) St 1	
	TS 101 044 (GSM 03.78) St 2	
	TS 129 078 (GSM 29.078) St 3,	
	clause A.2	
TSS reference:	GSM to GSM/Number translation services/Successful	
GSM selection	Numb_Trans	
criteria orign.:	_	
GSM selection	Numb_Trans	
criteria term.:		
Test purpose:	Verify that the Call is routed to the	Called Party Number without any number translation
		les that Rerouting and Called Party Number
		ure that the parameter received in the
	ServiceInteractionIndicatorsTwo received from the SCP in the ContinueWithArgument	
	operation will be sent in the IAM by the SSP.	
	operation will be sent in the little by	the oor .
	Pre test Conditions:	
	A-subscriber provisioned in HLR fo	r re-routing service
	Location update performed for original	
DCC / DC	Terminating B-Subscriber routed to	130P IIIIK
PCO / PO ISUP/CAP Interface	Initial Detection point	and the IAM negative IAM DAD ID to the
		map the IAM parameter IAM_PAR_ID to the
parameter	InitialDP parameter InitialIDP_PAR	_ID (see annex C).
Values (note):	Receiving of Continue message	, , , , , , , , , , , , , , , , , , ,
		from the SCP call processing is resumed.
		ID parameters received from the SCP in the
		vill be mapped in the IAM by the SSP.
	Sending of backward messages	
		map the backward messages ACM, CPG (alerting or
	in-band information, progress), CO	N and ANM.
	Receiving of Release message	
		release the call like an ordinary transit exchange.
PCO / PO	Initial Detection point	
A/CAP interface		map the SETUP_PAR_ID parameter to the InitialDP
parameter	parameter InitialIDP_PAR_ID (see	annex C).
Values (note) [:]	Sending of backward messages	
	Verify that the IUT can successfully	map the backward messages CALL PROCEEDING,
	ALERTING, PROGRESS or CONN	IECT to the originating side.
	Receiving of a Release message	•
	Verify that the IUT can successfully	release the call.
GSM parameter	GSM-BC = GSM-BC_ID	
values orign.:	Synchronous/ asynchronous mo	ode: MODE
_	user rate: USER_RATE	
	fixed network user rate: FNU_F	RATE (note).
	maximum number of traffic chai	
	air interface user rate: AIU_RAT	ΓΕ (note).
	acceptable channel coding: TCI	
	LLC = BC_ID	(
	Synchronous/ asynchronous mo	ode: MODE
	user rate: USER_RATE	
	HLC = HLC_ID	
GSM parameter	GSM-BC = GSM-BC_ID	
values term.:	Synchronous/ asynchronous mo	ode: MODF
	user rate: USER_RATE	odo. Mode
	LLC = synchronous/ asynchronous	mode: MODE
	user rate: USER_RATE	MOGG. WODE
	HLC = HLC_ID	
Commonto	I ILO = I ILO_ID	
Comments:		





NOTE: The ACM message is optional.

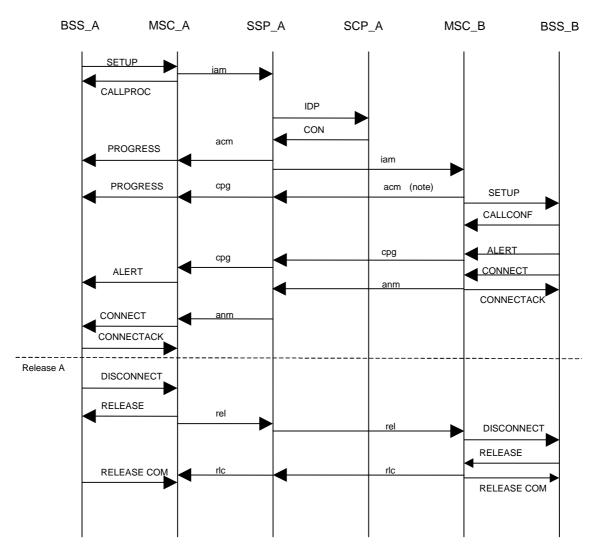
Figure 6: Number translation service flow with Continue with Argument Message

GSM ref. to: EN 300 940 TS 101 285 (GSM 02.78) St 1 TS 101 044 (GSM 03.78) St 2 TS 101 046 (GSM 09.78) St 3 TSS reference: GSM selection criteria orign.: GSM selection criteria term.: Test purpose: To verify that the Call is routed to a translated Number with the Connect operation. For routing of the call the called party number is derived from the destinationRoutingAddress. Pre test Conditions: A-subscriber provisioned in HLR for number translation service Location update performed for originating A-Subscriber Terminating B-Subscriber routed to ISUP link PCO / PO Initial Detection point Verify that the IUT can successfully map the IAM parameter IAM_PAR_ID to the InitialDP parameter InitialIDP_PAR_ID (see annex C). Connect Operation Verify that the IUT can successfully map the Connect operation parameter CONNECT_PAR_ID to the IAM_PAR_ID parameters of the IAM. Parameters which were received in the originating user service information and are not replaced by parameters of the Connect operation are treated according to the norma
TS 101 285 (GSM 02.78) St 1 TS 101 044 (GSM 03.78) St 2 TS 101 046 (GSM 09.78) St 3 TSS reference: GSM selection criteria orign.: GSM selection Criteria term.: Test purpose: To verify that the Call is routed to a translated Number with the Connect operation. For routing of the call the called party number is derived from the destinationRoutingAddress. Pre test Conditions: A-subscriber provisioned in HLR for number translation service Location update performed for originating A-Subscriber Terminating B-Subscriber routed to ISUP link PCO / PO ISUP/CAP Interface parameter Values (note): Verify that the IUT can successfully map the IAM parameter IAM_PAR_ID to the InitialDP parameter InitialIDP_PAR_ID (see annex C). Connect Operation Verify that the IUT can successfully map the Connect operation parameter CONNECT_PAR_ID to the IAM_PAR_ID parameters of the IAM. Parameters which were received in the originating user service information and are not replaced by parameters of the Connect operation are treated according to the norma
TS 101 044 (GSM 03.78) St 2 TS 101 046 (GSM 09.78) St 3 TSS reference: GSM selection criteria orign.: GSM selection Criteria term.: Test purpose: To verify that the Call is routed to a translated Number with the Connect operation. For routing of the call the called party number is derived from the destinationRoutingAddress. Pre test Conditions: A-subscriber provisioned in HLR for number translation service Location update performed for originating A-Subscriber Terminating B-Subscriber routed to ISUP link PCO / PO ISUP/CAP Interface parameter Values (note): TS 101 044 (GSM 03.78) St 2 TS 101 046 (GSM 09.78) St 3 GSM to GSM / Number translation services/Successfull Numb_Trans, To verify that the Call is routed to a translated Number with the Connect operation. For routing of the call the called party number is derived from the destinationRoutingAddress. Pre test Conditions: A-subscriber provisioned in HLR for number translation service Location update performed for originating A-Subscriber Terminating B-Subscriber routed to ISUP link Initial Detection point Verify that the IUT can successfully map the IAM parameter IAM_PAR_ID to the InitialDP parameter InitialIDP_PAR_ID (see annex C). Connect Operation Verify that the IUT can successfully map the Connect operation parameter CONNECT_PAR_ID to the IAM_PAR_ID parameters of the IAM. Parameters which were received in the originating user service information and are not replaced by parameters of the Connect operation are treated according to the normal
TS 101 046 (GSM 09.78) St 3 TSS reference: GSM selection criteria orign.: GSM selection criteria term.: To verify that the Call is routed to a translated Number with the Connect operation. For routing of the call the called party number is derived from the destinationRoutingAddress. Pre test Conditions: A-subscriber provisioned in HLR for number translation service Location update performed for originating A-Subscriber Terminating B-Subscriber routed to ISUP link PCO / PO ISUP/CAP Interface parameter Values (note): Initial Detection point Verify that the IUT can successfully map the IAM parameter IAM_PAR_ID to the InitialDP_parameter InitialIDP_PAR_ID (see annex C). Connect Operation Verify that the IUT can successfully map the Connect operation parameter CONNECT_PAR_ID to the IAM_PAR_ID parameters of the IAM. Parameters which were received in the originating user service information and are not replaced by parameters of the Connect operation are treated according to the norma
TSS reference: GSM to GSM/ Number translation services/Successful Numb_Trans, SGM selection criteria orign.: GSM selection criteria term.: To verify that the Call is routed to a translated Number with the Connect operation. For routing of the call the called party number is derived from the destinationRoutingAddress. Pre test Conditions: A-subscriber provisioned in HLR for number translation service Location update performed for originating A-Subscriber Terminating B-Subscriber routed to ISUP link PCO / PO SUP/CAP Interface parameter Values (note): Initial Detection point Verify that the IUT can successfully map the IAM parameter IAM_PAR_ID to the InitialDP parameter InitialIDP_PAR_ID (see annex C). Connect Operation Verify that the IUT can successfully map the Connect operation parameter CONNECT_PAR_ID to the IAM_PAR_ID parameters of the IAM. Parameters which were received in the originating user service information and are not replaced by parameters of the Connect operation are treated according to the norma
Numb_Trans,
Criteria orign.: GSM selection criteria term.: Test purpose: To verify that the Call is routed to a translated Number with the Connect operation. For routing of the call the called party number is derived from the destinationRoutingAddress. Pre test Conditions: A-subscriber provisioned in HLR for number translation service Location update performed for originating A-Subscriber Terminating B-Subscriber routed to ISUP link PCO / PO ISUP/CAP Interface parameter Values (note): Initial Detection point Verify that the IUT can successfully map the IAM parameter IAM_PAR_ID to the InitialDP parameter InitialIDP_PAR_ID (see annex C). Connect Operation Verify that the IUT can successfully map the Connect operation parameter CONNECT_PAR_ID to the IAM_PAR_ID parameters of the IAM. Parameters which were received in the originating user service information and are not replaced by parameters of the Connect operation are treated according to the norma
Rest purpose: Test purpose: To verify that the Call is routed to a translated Number with the Connect operation. For routing of the call the called party number is derived from the destinationRoutingAddress. Pre test Conditions: A-subscriber provisioned in HLR for number translation service Location update performed for originating A-Subscriber Terminating B-Subscriber routed to ISUP link PCO / PO ISUP/CAP Interface parameter Values (note): Initial Detection point Verify that the IUT can successfully map the IAM parameter IAM_PAR_ID to the InitialDP parameter InitialIDP_PAR_ID (see annex C). Connect Operation Verify that the IUT can successfully map the Connect operation parameter CONNECT_PAR_ID to the IAM_PAR_ID parameters of the IAM. Parameters which were received in the originating user service information and are not replaced by parameters of the Connect operation are treated according to the norma
To verify that the Call is routed to a translated Number with the Connect operation. For routing of the call the called party number is derived from the destinationRoutingAddress. Pre test Conditions: A-subscriber provisioned in HLR for number translation service Location update performed for originating A-Subscriber Terminating B-Subscriber routed to ISUP link PCO / PO ISUP/CAP Interface parameter Values (note): Initial Detection point Verify that the IUT can successfully map the IAM parameter IAM_PAR_ID to the InitialDP parameter InitialIDP_PAR_ID (see annex C). Connect Operation Verify that the IUT can successfully map the Connect operation parameter CONNECT_PAR_ID to the IAM_PAR_ID parameters of the IAM. Parameters which were received in the originating user service information and are not replaced by parameters of the Connect operation are treated according to the norma
For routing of the call the called party number is derived from the destinationRoutingAddress. Pre test Conditions: A-subscriber provisioned in HLR for number translation service Location update performed for originating A-Subscriber Terminating B-Subscriber routed to ISUP link PCO / PO INITIAL Detection point Verify that the IUT can successfully map the IAM parameter IAM_PAR_ID to the InitialDP parameter InitialIDP_PAR_ID (see annex C). Connect Operation Verify that the IUT can successfully map the Connect operation parameter CONNECT_PAR_ID to the IAM_PAR_ID parameters of the IAM. Parameters which were received in the originating user service information and are not replaced by parameters of the Connect operation are treated according to the norma
For routing of the call the called party number is derived from the destinationRoutingAddress. Pre test Conditions: A-subscriber provisioned in HLR for number translation service Location update performed for originating A-Subscriber Terminating B-Subscriber routed to ISUP link PCO / PO INITIAL Detection point Verify that the IUT can successfully map the IAM parameter IAM_PAR_ID to the InitialDP parameter InitialIDP_PAR_ID (see annex C). Connect Operation Verify that the IUT can successfully map the Connect operation parameter CONNECT_PAR_ID to the IAM_PAR_ID parameters of the IAM. Parameters which were received in the originating user service information and are not replaced by parameters of the Connect operation are treated according to the norma
destinationRoutingAddress. Pre test Conditions: A-subscriber provisioned in HLR for number translation service Location update performed for originating A-Subscriber Terminating B-Subscriber routed to ISUP link PCO / PO ISUP/CAP Interface parameter Values (note): Initial Detection point Verify that the IUT can successfully map the IAM parameter IAM_PAR_ID to the InitialDP parameter InitialIDP_PAR_ID (see annex C). Connect Operation Verify that the IUT can successfully map the Connect operation parameter CONNECT_PAR_ID to the IAM_PAR_ID parameters of the IAM. Parameters which were received in the originating user service information and are not replaced by parameters of the Connect operation are treated according to the norma
Pre test Conditions: A-subscriber provisioned in HLR for number translation service Location update performed for originating A-Subscriber Terminating B-Subscriber routed to ISUP link PCO / PO ISUP/CAP Interface parameter Values (note): Initial Detection point Verify that the IUT can successfully map the IAM parameter IAM_PAR_ID to the InitialDP parameter InitialIDP_PAR_ID (see annex C). Connect Operation Verify that the IUT can successfully map the Connect operation parameter CONNECT_PAR_ID to the IAM_PAR_ID parameters of the IAM. Parameters which were received in the originating user service information and are not replaced by parameters of the Connect operation are treated according to the norma
Location update performed for originating A-Subscriber Terminating B-Subscriber routed to ISUP link PCO / PO ISUP/CAP Interface parameter Values (note): Initial Detection point Verify that the IUT can successfully map the IAM parameter IAM_PAR_ID to the InitialDP parameter InitialIDP_PAR_ID (see annex C). Connect Operation Verify that the IUT can successfully map the Connect operation parameter CONNECT_PAR_ID to the IAM_PAR_ID parameters of the IAM. Parameters which were received in the originating user service information and are not replaced by parameters of the Connect operation are treated according to the norma
Terminating B-Subscriber routed to ISUP link PCO / PO ISUP/CAP Interface parameter Values (note): Initial Detection point Verify that the IUT can successfully map the IAM parameter IAM_PAR_ID to the InitialDP parameter InitialIDP_PAR_ID (see annex C). Connect Operation Verify that the IUT can successfully map the Connect operation parameter CONNECT_PAR_ID to the IAM_PAR_ID parameters of the IAM. Parameters which were received in the originating user service information and are not replaced by parameters of the Connect operation are treated according to the norma
Terminating B-Subscriber routed to ISUP link PCO / PO ISUP/CAP Interface parameter Values (note): Initial Detection point Verify that the IUT can successfully map the IAM parameter IAM_PAR_ID to the InitialDP parameter InitialIDP_PAR_ID (see annex C). Connect Operation Verify that the IUT can successfully map the Connect operation parameter CONNECT_PAR_ID to the IAM_PAR_ID parameters of the IAM. Parameters which were received in the originating user service information and are not replaced by parameters of the Connect operation are treated according to the norma
Initial Detection point Verify that the IUT can successfully map the IAM parameter IAM_PAR_ID to the InitialDP parameter InitialDP_PAR_ID (see annex C). Connect Operation Verify that the IUT can successfully map the Connect operation parameter CONNECT_PAR_ID to the IAM_PAR_ID parameters of the IAM. Parameters which were received in the originating user service information and are not replaced by parameters of the Connect operation are treated according to the norma
Verify that the IUT can successfully map the IAM parameter IAM_PAR_ID to the InitialDP parameter InitialIDP_PAR_ID (see annex C). Connect Operation Verify that the IUT can successfully map the Connect operation parameter CONNECT_PAR_ID to the IAM_PAR_ID parameters of the IAM. Parameters which were received in the originating user service information and are not replaced by parameters of the Connect operation are treated according to the normal
InitialDP parameter InitialIDP_PAR_ID (see annex C). Connect Operation Verify that the IUT can successfully map the Connect operation parameter CONNECT_PAR_ID to the IAM_PAR_ID parameters of the IAM. Parameters which were received in the originating user service information and are not replaced by parameters of the Connect operation are treated according to the norma
Verify that the IUT can successfully map the Connect operation parameter CONNECT_PAR_ID to the IAM_PAR_ID parameters of the IAM . Parameters which were received in the originating user service information and are not replaced by parameters of the Connect operation are treated according to the normal
CONNECT_PAR_ID to the IAM_PAR_ID parameters of the IAM. Parameters which were received in the originating user service information and are not replaced by parameters of the Connect operation are treated according to the normal content.
Parameters which were received in the originating user service information and are not replaced by parameters of the Connect operation are treated according to the normal
not replaced by parameters of the Connect operation are treated according to the norma
call procedures. An ACM message is sent to the preceding exchange.
The backward call indicators parameter in the ACM is encoded as defined in table 1.
Sending of backward messages
Verify that the IUT can successfully map the backward messages ACM, CPG (alerting of
in-band information, progress), CON and ANM.
Receiving of Release message
Verify that the IUT can successfully release the call like an ordinary transit exchange.
PCO / PO Initial Detection point
A/CAP interface Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP
parameter parameter InitialIDP_PAR_ID (see annex C).
Values (note): Sending of backward messages
Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.
Receiving of a Release message
Verify that the IUT can successfully release the call.
GSM parameter GSM-BC = GSM-BC_ID
values orign.: synchronous/ asynchronous mode: MODE
user rate: USER_RATE
fixed network user rate: FNU_RATE (note)
maximum number of traffic channels: No_TCH (note),
air interface user rate: AIU_RATE (note),
acceptable channel coding: TCH_FX_X (note).
LLC = BC_ID
synchronous/ asynchronous mode: MODE
user rate: USER_RATE
HLC = HLC_ID
GSM parameter GSM-BC_ID
values term.: Synchronous/ asynchronous mode: MODE
user rate: USER_RATE
LLC = synchronous/asynchronous mode: MODE
user rate: USER_RATE
HLC = HLC_ID
Comments:

Table 1: Backward call indicators parameter in the ACM

Charge indicator:	See clause 10.1.1.1.2 (SendChargingInformation operation)	
Called party's status indicator:	00 (no indication)	
Called party's category:	00 (no indication)	
End-to-end method indicator:	00 (no end-to-end method available)	
Interworking indicator:	0 (no interworking encountered)	
End-to-end information indicator:	0 (no end-to-end information available)	
ISDN User Part indicator:	1 (ISDN User Part used all the way)	
Holding indicator:	National matter	
ISDN access indicator:	1 (terminating access ISDN)	
Echo Control device indicator:	See clause 2.7.1.2.2 of ITU-T Recommendation Q.764 [82]	
SCCP method indicator:	00 (no indication)	

GG__SPN_03

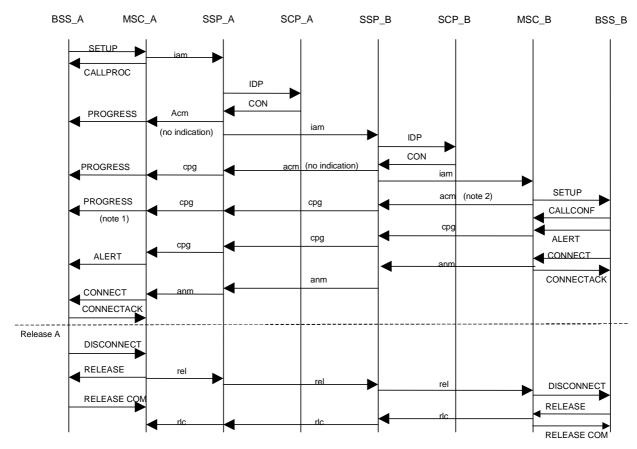


NOTE: The ACM message is optional.

Figure 7: Number translation service flow with Connect Message

	Table 4		
GGxx N_ 04	GSM ref. to: Other ref.:		
	EN 300 940		
	TS 101 285 (GSM 02.78) St 1		
	TS 101 044 (GSM 03.78) St 2		
	TS 101 046 (GSM 09.78) St 3		
TSS reference:	GSM to GSM/ Number translation services/Successful		
GSM selection	Numb_Trans,		
criteria orign.:			
GSM selection	Numb_Trans,		
criteria term.:			
Test purpose:	Verify that the Call is routed to the Called Party Number after the second stage Query.		
	Pre test Conditions:		
	A-subscriber provisioned in HLR for Rerouting service		
	Location update performed for originating A-Subscriber		
	Terminating B-Subscriber routed to ISUP link		
PCO / PO	Initial Detection point in IUT 1		
ISUP/CAP Interface	Verify that the IUT can successfully map the IAM parameter IAM_PAR_ID to the		
parameter	InitialDP parameter InitialIDP_PAR_ID (see annex C).		
Values (note):	Connect Operation in IUT 1		
	Verify that the IUT can successfully map the Connect operation parameter		
	CONNECT_PAR_ID to the IAM_PAR_ID parameters of the IAM.		
	Parameters which were received in the originating user service information and are		
	not replaced by parameters of the Connect operation are treated according to the normal		
	call procedures. An ACM message is sent to the preceding exchange.		
	Initial Detection point in IUT 2		
	Verify that the IUT can successfully map the IAM parameter IAM_PAR_ID to the		
	InitialDP parameter InitialIDP_PAR_ID (see annex C). Connect Operation in IUT 2 Verify that the IUT can successfully map the Connect operation parameter CONNECT_PAR_ID to the IAM_PAR_ID parameters of the IAM. Parameters which were received in the originating user service information and are not replaced by parameters of the Connect operation are treated according to the normal call procedures. An ACM message is sent to the preceding exchange. Sending of backward messages		
	Verify that the IUT 1 and IUT 2 can successfully map the backward messages ACM,		
	CPG (alerting or in-band information, progress), CON and ANM.		
	Receiving of Release message		
	Verify that the IUT can successfully release the call like an ordinary transit exchange.		
PCO / PO	Initial Detection point		
A/CAP interface	Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP		
parameter	parameter InitialIDP_PAR_ID (see annex C).		
Values (note):	Sending of backward messages		
	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,		
	ALERTING, PROGRESS or CONNECT to the originating side.		
	Receiving of a Release message		
	Verify that the IUT can successfully release the call.		
GSM parameter	GSM-BC = GSM-BC_ID		
values orign.:	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	fixed network user rate: FNU_RATE (note).		
	maximum number of traffic channels: No_TCH (note).		
	air interface user rate: AIU_RATE (note).		
	acceptable channel coding: TCH_FX_X (note).		
	LLC = BC_ID		
	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	HLC = HLC_ID		
GSM parameter	GSM-BC = GSM-BC_ID		
values term.:	Synchronous/ asynchronous mode: MODE		
	User rate: USER_RATE		
	LLC = synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	HLC = HLC_ID		
Comments:			

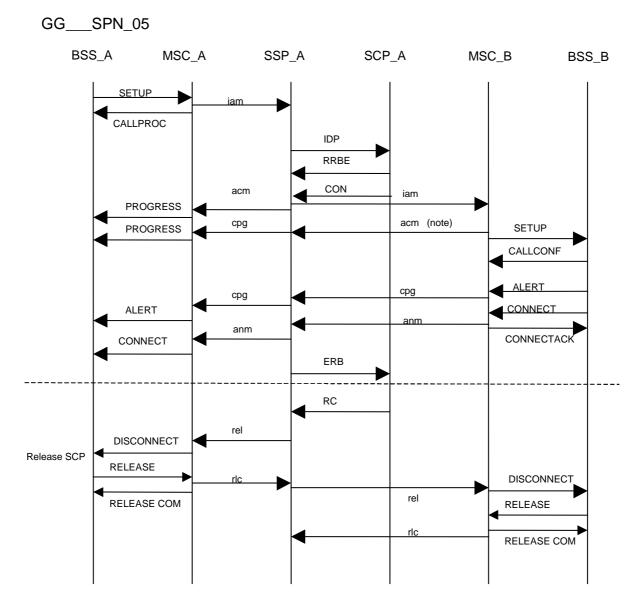




- NOTE 1: According to Q.699 the mapping of the contents in the CPG is only relevant if the information received in the message is different compared to earlier information.
- NOTE 2: The ACM message is optional.

Figure 8: Number translation service flow for second stage query

GGxx N_ 05	GSM ref. to: Other ref.:		
	EN 300 940		
	TS 101 285 (GSM 02.78) St 1		
	TS 101 044 (GSM 03.78) St 2		
	TS 101 046 (GSM 09.78) St 3		
TSS reference:	GSM to GSM/ Number translation services/Successful		
GSM selection	Numb_Trans,		
criteria orign.:			
GSM selection	Numb_Trans,		
criteria term.:			
Test purpose:	MS A makes a call to MS B. After the call establishment and the connection of 10 s with		
	MS B, the Call is released from the SCP.		
	Pre test Conditions:		
	A-subscriber is registered in VPLMN		
	Location update performed for originating A-Subscriber		
	Terminating B-Subscriber routed to ISUP link		
PCO / PO	Initial Detection point		
ISUP/CAP Interface	Verify that the IUT can successfully map the IAM parameter IAM_PAR_ID to the		
parameter	InitialDP parameter InitialIDP_PAR_ID (see annex C).		
Values (note):	Connect Operation		
	Verify that the IUT can successfully map the Connect operation parameter		
	CONNECT_PAR_ID to the IAM_PAR_ID parameters of the IAM.		
	Parameters which were received in the originating user service information and are		
	not replaced by parameters of the Connect operation are treated according to the normal		
	call procedures. An ACM message is sent to the preceding exchange.		
	Sending of backward messages		
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or		
	in-band information, progress), CON and ANM.		
	Receiving of Release message		
	Verify that the IUT can successfully map the CAP Release Call Message and release the		
	call like an ordinary transit exchange.		
PCO / PO	Initial Detection point		
A/CAP interface	Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP		
parameter	parameter InitialIDP_PAR_ID (see annex C).		
Values (note):	Sending of backward messages		
	Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.		
	Receiving of a Release message		
CCM noromotor	Verify that the IUT can successfully release the call. GSM-BC = GSM-BC ID		
GSM parameter values orign.:			
values origin	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE LLC = BC_ID		
	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	HLC = HLC_ID		
GSM parameter	GSM-BC = GSM-BC ID		
values term.:	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	LLC = synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	HLC = HLC ID		
Comments:	Service logic		
	The SCF alters the destination address. SCF sends RRBE ([O_Answer,notify],		
	[O_Disc,interupted, legID=1], [O_Disc,interupted, legID=2]+CON. After reception of ERB		
	(O_Answer) SCF starts a timer of length 10 s. SCF sends RC after expiration of this		
	timer.		
Abbreviations:	RRBE:Request Report BCSM Event		
	CUE: Continue		
	ERB: Event Report BCSM		
	RC: Release Call		
·			



NOTE: The ACM message is optional.

Figure 9: Number translation service flow, call establishment and release procedure from the SCP

GG xx N 06	GSM ref. to:	Other ref.: GSM Association PRD IR.32	
	EN 300 940	clause 2.2.5.2	
	TS 101 285 (GSM 02.78) St 1		
	TS 101 044 (GSM 03.78) St 2		
	TS 101 046 (GSM 09.78) St 3		
TSS reference:	GSM to GSM/ Number translation services/Successful		
GSM selection	Numb_Trans,		
criteria orign.:			
GSM selection	Numb_Trans,		
criteria term.:			
Test purpose:	MS A makes a call to MS B which is located in the VPLMN(b) and "busy". The busy cause is received in the SSF and the Re-connection is triggered on EDP_Busy.		
		ne Re-connection is triggered on EDP_Busy.	
	Pre test Conditions:	N	
	A-subscriber is registered in VPLM Location update performed for original		
PCO / PO	Terminating B-Subscriber routed to ISUP link Initial Detection point		
ISUP/CAP Interface	No action		
parameter	Continue Operation		
Values (note):	No action		
values (note).	Release Operation		
		sage is sent to the preceding exchange.	
	Connect Operation	and the same processing entertainings.	
		map the Connect operation parameter	
	CONNECT_PAR_ID to the IAM_PA	AR_ID parameters of the IAM.	
		the originating user service information and are	
	not replaced by parameters of the Connect operation are treated according to the normal call procedures. Sending of backward messages Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or in-band information, progress), CON and ANM. Receiving of Release message Verify that the IUT can successfully map the CAP Release Call Message and release the		
	call like an ordinary transit exchang		
PCO / PO	Initial Detection point	jo.	
A/CAP interface	No action		
parameter	Sending of backward messages		
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,		
, ,	ALERTING, PROGRESS or CONNECT to the originating side.		
	Receiving of a Release message		
	Verify that the IUT can successfully	release the call.	
GSM parameter	GSM-BC = GSM-BC_ID		
values orign.:	synchronous/ asynchronous mo	ode: MODE	
	user rate: USER_RATE		
	LLC = BC_ID	I MODE	
	synchronous/ asynchronous mo	ode: MODE	
	user rate: USER_RATE HLC = HLC_ID		
GSM parameter	GSM-BC = GSM-BC_ID		
values term.:	synchronous/ asynchronous mo	nde: MODE	
values term	user rate: USER_RATE	ode. MODE	
	LLC = synchronous/ asynchronous	mode: MODE	
	user rate: USER_RATE		
	HLC = HLC_ID		
Comments:	Service logic		
		ress and sends RRBE+CUE. When SCF has	
	received ERB, the SCF alters the destination address and establishes a reconnection.		
Abbreviations:	RRBE: Request Report BCSM Ever	nt	
	CUE: Continue		
	ERB: Event Report BCSM		
	RC: Release Call		
	FCI: Furnish Charging Info		

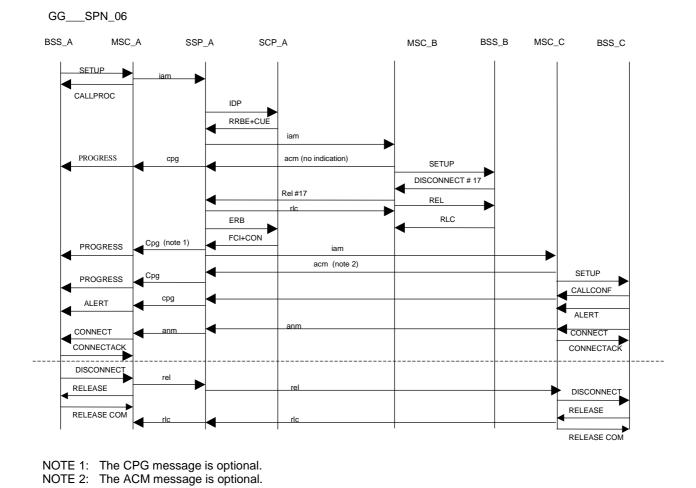
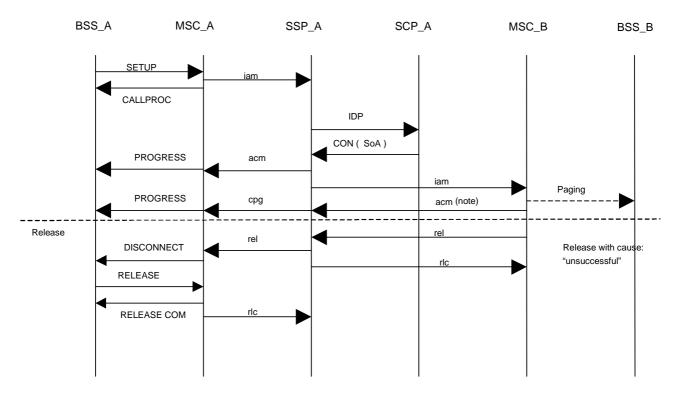


Figure 10: Number translation service flow, MS B which is located in the VPLMN(b) is "busy"

GGxx N_ 07	GSM ref. to:	Other ref.: GSM Association PRD IR.32	
	EN 300 940	clause 2.1.7	
	TS 101 285 (GSM 02.78) St 1		
	TS 101 044 (GSM 03.78) St 2		
	TS 101 046 (GSM 09.78) St 3		
TSS reference:	GSM to GSM/ Number translation services/Successful		
GSM selection	Numb_Trans,		
criteria orign.:			
GSM selection	Numb_Trans,		
criteria term.:			
Test purpose:	MS A makes a call to MS B which is located in the VPLMN(b). SCP instructs VPLMN to		
	suppress announcements.		
	Pre test Conditions:		
	A-subscriber is registered in VPLM		
	Location update performed for original		
	Terminating B-Subscriber routed to ISUP link		
PCO / PO	Initial Detection point		
ISUP/CAP Interface	No action		
parameter	Connect Operation		
Values (note):	Verify the utilization of the parameter SuppressionOfAnnocement		
	Sending of backward messages		
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or		
	in-band information, progress), CON and ANM.		
PCO / PO	Initial Detection point		
A/CAP interface	No action		
parameter	Sending of backward messages		
Values (note) [:]	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,		
	ALERTING, PROGRESS or CONNECT to the originating side.		
	Receiving of a Release message		
0011	Verify that the IUT can successfully	release the call.	
GSM parameter	GSM-BC = GSM-BC_ID		
values orign.:	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	LLC = BC_ID synchronous mo	odo: MODE	
	user rate: USER_RATE	ode. MODE	
	HLC = HLC_ID		
GSM parameter	GSM-BC = GSM-BC ID		
values term.:	synchronous/ asynchronous mo	odo: MODE	
values terrii	user rate: USER_RATE	ode. MODE	
	LLC = synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	HLC = HLC_ID		
Comments:		of the suppression of announcement in case of	
Comments.	unsuccessful call establishment detected at the MSC.		
	Tarioaccessiai cail establistiment de	totica at the Mico.	

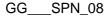
GG___SPN_07

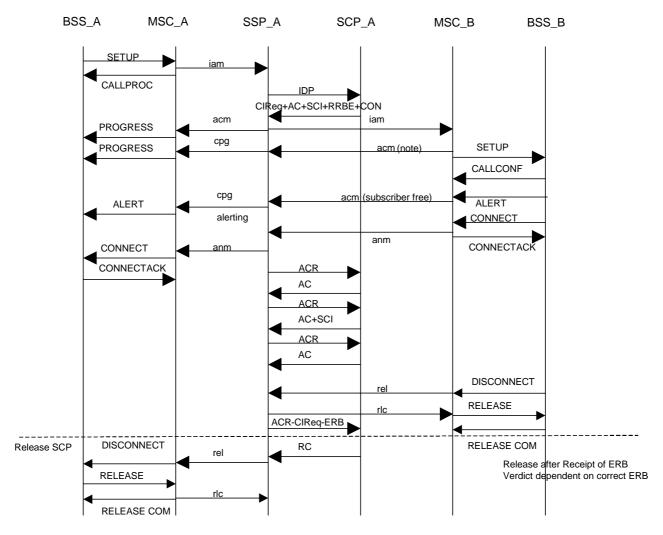


NOTE: The sending of the early ACM message is optional.

Figure 11: Number translation service flow, SCP instructs VPLMN to suppress announcements in the CON Message

GG xx N 08	GSM ref. to:	Other ref.: GSM Association PRD IR.32	
00xx IN_ 00	EN 300 940	clause 2.2.6.1	
	TS 101 285 (GSM 02.78) St 1	Clause 2.2.0.1	
	TS 101 044 (GSM 03.78) St 2		
TSS reference:	TS 101 046 (GSM 09.78) St 3		
	GSM to GSM/Number translation services/Successful		
GSM selection	Numb_Trans,		
criteria orign.:	<u> </u>		
GSM selection	Numb_Trans,		
criteria term.:			
Test purpose:	MS A which is located in the VPLMN(b) makes a call to MS B. MS B disconnects the call		
	after 30 s. Correct reporting is checked and the call is released by the SCP.		
	The operation of CAP-CallInformationRequest/Report, CAP-SendChargingInfo,		
	CAP-ApplyCharging and CAP-ApplyChargingReport is verified.		
	Pre test Conditions:		
	A-subscriber is registered in VPLM		
	Location update performed for orig		
	Terminating B-Subscriber routed to ISUP link		
PCO / PO	Initial Detection point		
ISUP/CAP Interface	No action		
parameter	Connect Operation		
Values ^{1):}	No action		
	Sending of backward messages		
	No action		
PCO / PO	Initial Detection point		
A/CAP interface	No action		
parameter	Sending of backward messages		
Values ^{2):}	No action		
	Receiving of a Release message		
	No action		
GSM parameter	GSM-BC = GSM-BC_ID		
values orign.:	Synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	LLC = BC_ID		
	Synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	HLC = HLC_ID		
GSM parameter	GSM-BC = GSM-BC_ID		
values term.:	synchronous/ asynchronous mo	ode: MODE	
	user rate: USER_RATE		
	LLC = synchronous/ asynchronous	mode: MODE	
	user rate: USER_RATE		
	HLC = HLC_ID		
Comments:			
Abbreviations:	CIReq: CallInformationRequest		
	CIRep: CallInformationReport		
	SCI: SendChargingInfo		
	AC: ApplyCharging		
	ACR: ApplyChargingReport		
	RRBE: Request Report BCSM I	Event	
	ERB: Event Report BCSM		
	RC: Release Call		
	FCI: Furnish Charging Info		

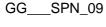


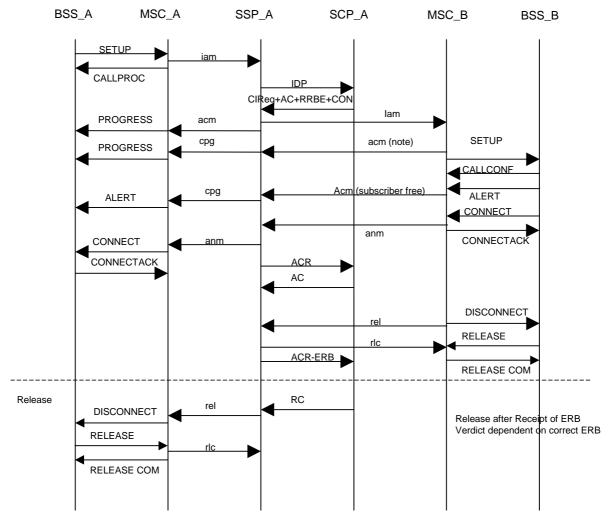


NOTE: The sending of the ACM message is optional.

Figure 12: Number translation service flow, correct reporting of CallInformationRequest/Report, CAP-SendChargingInfo, CAP-ApplyCharging and CAP-ApplyChargingReport is checked

GG xx N_ 09	GSM ref. to:	Other ref.: GSM Association PRD IR.32	
GGxx N_ 09	EN 300 940	clause 2.2.6.2	
		clause 2.2.6.2	
	TS 101 285 (GSM 02.78) St 1		
	TS 101 044 (GSM 03.78) St 2		
	TS 101 046 (GSM 09.78) St 3		
TSS reference:	GSM to GSM/ Number translation services/Successful		
GSM selection	Numb_Trans, Simulation		
criteria orign.:			
GSM selection	Numb_Trans,		
criteria term.:			
Test purpose:	MS A which is located in the VPLMN(b) makes a call to MS B. A tariff switch occurs in		
	the first and in the second Max.Call Period Duration. The call is released before the		
	second tariff switch. Correct reporting of the call period is checked and the call is		
	released by the SCP.		
	Pre test Conditions:		
	A-subscriber is registered in VPLM	N	
	Location update performed for orig		
	Terminating B-Subscriber routed to		
PCO / PO	Initial Detection point		
ISUP/CAP Interface	No action		
parameter	Connect Operation		
Values (note):	No action		
	Sending of backward messages		
	No action		
PCO / PO	Initial Detection point		
A/CAP interface	No action		
parameter	Sending of backward messages		
Values (note):	No action		
	Receiving of a Release message		
	No action		
GSM parameter	GSM-BC = GSM-BC_ID		
values orign.:		ode: MODE	
values origin	synchronous/ asynchronous mode: MODE user rate: USER_RATE		
	LLC = BC_ID		
	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	HLC = HLC_ID		
GSM parameter	GSM-BC = GSM-BC_ID		
values term.:	synchronous/ asynchronous mo	ode: MODE	
values term.	user rate: USER RATE	ode. WODE	
	<u> </u>	mode: MODE	
	LLC = synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE HLC = HLC_ID		
Comments:	TIEG = TIEG_IB		
Abbreviations:	CIReq: CallInformationRequest		
Abbieviations.			
	CIRep: CallInformationReport SCI: SendChargingInfo		
		Tyont	
		EVEIIL	
	ERB: Event Report BCSM		
	RC: Release Call		
	FCI: Furnish Charging Info		



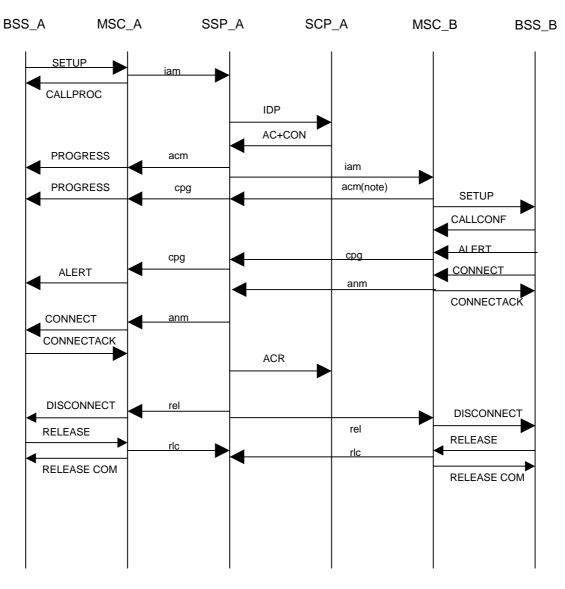


NOTE: The sending of the ACM message is optional.

Figure 13: Number translation service flow, correct reporting of tariff switch

GGxx N_ 10	GSM ref. to:	Other ref.: GSM Association PRD IR.32	
	EN 300 940	clause 2.2.6.3	
	TS 101 285 (GSM 02.78) St 1		
	TS 101 044 (GSM 03.78) St 2		
	TS 101 046 (GSM 09.78) St 3		
TSS reference:	GSM to GSM/ Services with user in	nteractive dialogue/Successful	
GSM selection	Numb_Trans, Simulation		
criteria orign.:			
GSM selection	Numb_Trans,		
criteria term.:			
Test purpose:	MS A which is located in the VPLMN(b) makes a call to MS B.		
	It is checked, that the call is disconnected because of used up credit and if a warning		
	tone is played before the call is rele	eased.	
	Pre test Conditions:		
	A-subscriber is registered in VPLM		
	Location update performed for original		
	Terminating B-Subscriber routed to ISUP link		
PCO / PO	Initial Detection point		
ISUP/CAP Interface	No action		
parameter	Connect Operation		
Values (note):	No action		
	Sending of backward messages No action		
DCO / DO	Initial Detection point		
PCO / PO A/CAP interface	No action		
parameter	Sending of backward messages		
Values (note):	No action		
values (Hote).	Receiving of a Release message		
	No action		
GSM parameter	GSM-BC = GSM-BC_ID		
values orign.:	synchronous/ asynchronous mo	ode: MODE	
values origin.	user rate: USER_RATE	ode. WODE	
	LLC = BC_ID		
	synchronous/ asynchronous mo	ode: MODE	
	user rate: USER_RATE	, wo 52	
	HLC = HLC_ID		
GSM parameter	GSM-BC = GSM-BC_ID		
values term.:	synchronous/ asynchronous mo	ode: MODE	
	user rate: USER_RATE		
	LLC = synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	HLC = HLC_ID		
Comments:		f the suppression of announcement in case of	
	unsuccessful Call establishment de		





NOTE: The sending of the ACM message is optional.

Figure 14: Number translation service flow, the call is disconnected because of used up credit

Table 2: Sending and mapping of backward messages (A-Interface)

Messages ⇒ Received or messages to be send respectively	Call Proceeding	alerting	Connect
Call Proceeding/ CONNECT not sent	Call Proceeding	Alerting	Connect
Call Proceeding sent, Connect not sent	Progress	Alerting	Connect

7.1.2.2 Unsuccessful

Unsuccessful Number translation services

GG SP NU 01	GSM ref. to:	Other ref.:	
	EN 300 940		
	TS 101 285 (GSM 02.78) St 1		
	TS 101 044 (GSM 03.78) St 2		
	TS 101 046 (GSM 09.78) St 3		
TSS reference:	GSM to GSM/ Number translation s	services/Unsuccessful	
GSM selection	Numb_Trans,		
criteria orign.:			
GSM selection	Numb_Trans,		
criteria term.:			
Test purpose:	To verify that the Call is released in	nmediately and that no rerouting activity takes place if	
	the SCP recognizes that a barred n	umber is dialled.	
	Pre test Conditions:		
	A-subscriber provisioned in HLR fo		
	Location update performed for origi		
	Terminating B-Subscriber is barred	in the SCP	
PCO / PO	Receiving of Release message		
ISUP/CAP Interface	Verify that the IUT can successfully	release the call like an ordinary transit exchange.	
parameter			
Values (note):			
PCO / PO	Receiving of a Release message		
A/CAP interface	Verify that the IUT can successfully release the call.		
parameter			
Values (note):			
GSM parameter	GSM-BC = GSM-BC_ID		
values orign.:	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	LLC = BC_ID		
	synchronous/ asynchronous mo	de: MODE	
	user rate: USER_RATE		
	HLC = HLC_ID		
GSM parameter	GSM-BC = GSM-BC_ID		
values term.:	synchronous/ asynchronous mo	de: MODE	
	user rate: USER_RATE		
	LLC = synchronous/ asynchronous	mode: MODE	
	user rate: USER_RATE		
	HLC = HLC_ID		
Comments:			

GG___SPNU_01

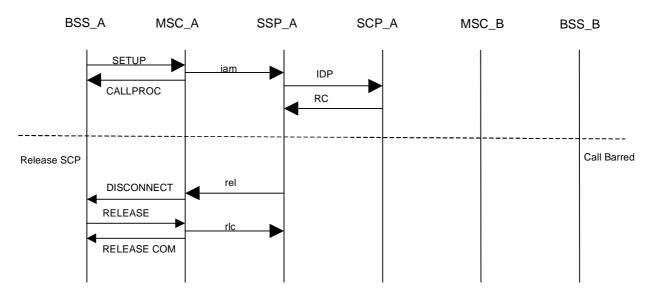


Figure 15: Unsuccessful number translation service flow, SCP recognizes that a barred number is dialled

Values for test purposes GGxx NU 01		
VA_01	GSM_BC_ID = speech	
	MODE: -	
	G_USER_RATE: -	
	LLC_ID = -	
	MODE: -	
	USER_RATE: -	
	HLC_ID = *	
VA_02	GSM-BC_ID = speech	
	MODE: -	
	G_USER_RATE: -	
	LLC_ID = -	
	MODE: -	
	USER_RATE: -	
	HLC_ID = Telephony	

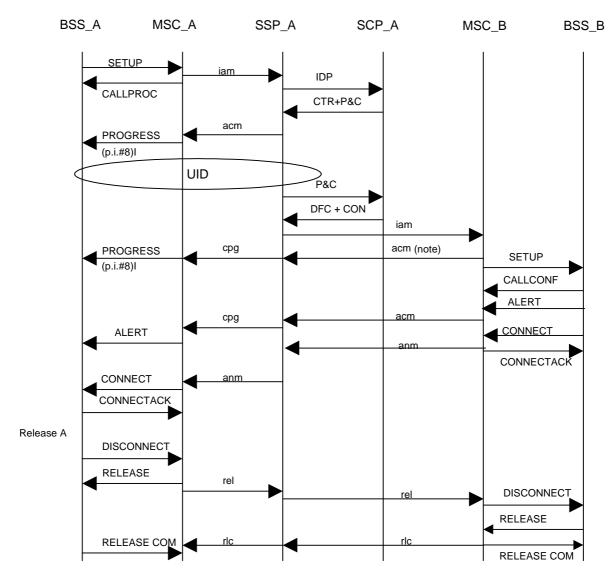
7.1.3 Services with user interactive dialogue

7.1.3.1 Successful

GGxx I_ 01	GSM ref. to: Other ref.:			
	EN 300 940			
	TS 101 285 (GSM 02.78) St 1			
	TS 101 044 (GSM 03.78) St 2			
	TS 101 046 (GSM 09.78) St 3			
	TS 29.078 clause A.5			
TSS reference:	GSM to GSM/ Services with user interactive dialogue/Successful			
GSM selection	Numb_Trans, IN call with user interactive dialogue (in-band) SSP supports requested IP			
criteria orign.:	capabilities, OLE supports UID capabilities			
GSM selection	Services with user interactive dialogue			
criteria term.:	·			
Test purpose:	MS A makes a call to MS B. The UID (user interactive dialogue) is performed at the			
	forwarding MSC. After the UID the user is connected to the called party.			
	Pre test Conditions:			
	A-subscriber is registered in VPLMN			
	Location update performed for originating A-Subscriber			
	Terminating B-Subscriber routed to ISUP link			
PCO / PO	Initial Detection point			
ISUP/CAP Interface	Verify that the IUT can successfully map the IAM parameter IAM_PAR_ID to the			
parameter	InitialDP parameter InitialIDP_PAR_ID (see annex C).			
Values (note):	ConnectToResource			
	Verify that the IUT (SSP) is sending a ACM message with the Optional Backward Call			
	Indicators indicating "in-band information or an appropriate pattern is now available			
	(p.i.#8) to the preceding exchange after receiving the ConnectToResource message			
	(from the SCP).			
	Disconnect Forward Connection (DFC)			
	Verify that the IUT can successfully release the "through -connect in-band info" after			
	receiving the Disconnect Forward Connection (DFC) message.			
	Connect Operation			
	Initial address information is retained in memory to allow a call setup to a new			
	destination after disconnecting the IP.			
	Verify that the IUT can successfully map the Connect operation parameter			
	CONNECT_PAR_ID to the IAM_PAR_ID parameters of the IAM.			
	Parameters which were received in the originating user service information and are			
	not replaced by parameters of the Connect operation are treated according to the normal			
	call procedures.			
	Sending of backward messages			
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or			
	in-band information, progress), CON and ANM. Receiving of Release message			
	Verify that the IUT can successfully release the call like an ordinary transit exchange.			
PCO / PO	Initial Detection point			
A/CAP interface	Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP			
parameter	parameter InitialIDP_PAR_ID (see annex C).			
Values (note):	Sending of backward messages			
74.400 (1.010).	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,			
	ALERTING, PROGRESS or CONNECT to the originating side.			
	Receiving of a Release message			
	Verify that the IUT can successfully release the call.			
GSM parameter	GSM-BC = GSM-BC_ID			
values orign.:	synchronous/ asynchronous mode: MODE			
	user rate: USER RATE			
	LLC = BC_ID			
	synchronous/ asynchronous mode: MODE			
	user rate: USER_RATE			
	HLC = HLC_ID			

GGxx I_ 01	GSM ref. to: EN 300 940 TS 101 285 (GSM 02.78) St 1 TS 101 044 (GSM 03.78) St 2 TS 101 046 (GSM 09.78) St 3 TS 29.078 clause A.5	Other ref.:
GSM parameter values term.:	GSM-BC = GSM-BC_ID synchronous/ asynchronous m user rate: USER_RATE LLC = synchronous/ asynchronous user rate: USER_RATE HLC = HLC_ID	
Comments:		

GG_SPI_01



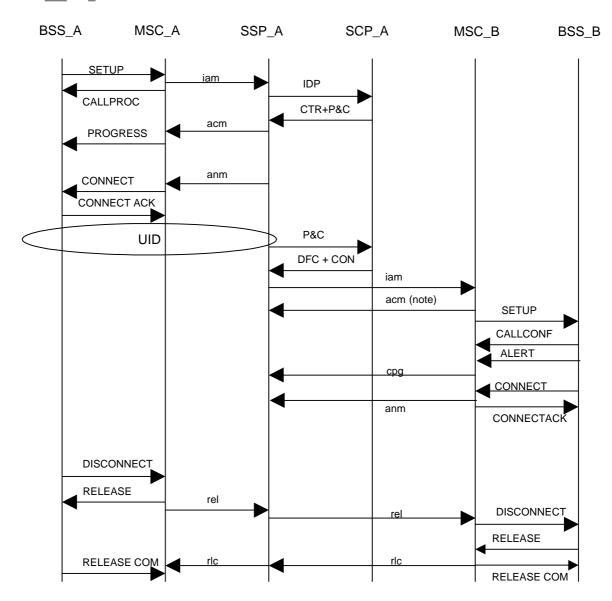
NOTE: The sending of the ACM message is optional.

Figure 16: User interactive dialogue service, IN call with user interactive dialogue (in-band) SSP supports requested IP capabilities, OLE supports UID capabilities

CC w/ 1 02	GSM ref. to: Other ref.:			
GGxx I_ 02	EN 300 940			
	TS 101 285 (GSM 02.78) St 1			
	TS 101 044 (GSM 03.78) St 2			
	TS 101 044 (GSM 09.78) St 3			
	TS 29.078 clause A.5			
TSS reference:	GSM to GSM/ Services with user interactive dialogue /Successful			
GSM selection				
criteria orign.:	Numb_Trans, IN call with user interactive dialogue (in-band) SSP supports			
	requested IP capabilities, OLE does not support UID capabilities			
GSM selection	Services with user interactive dialogue			
criteria term.:				
Test purpose:	MS A makes a call to MS B. The UID (user interactive dialogue)is performed at the			
	forwarding MSC. After the UID the user is connected to the called party.			
	Pre test Conditions:			
	A-subscriber is registered in VPLMN			
	Location update performed for originating A-Subscriber			
	Terminating B-Subscriber routed to ISUP link			
PCO / PO	Initial Detection point			
ISUP/CAP Interface	Verify that the IUT can successfully map the IAM parameter IAM_PAR_ID to the			
parameter	InitialDP parameter InitialIDP_PAR_ID (see annex C).			
Values (note):	ConnectToResource			
	If the User Interactive dialogue is to be performed at a forwarding MSC or GMSC then			
	an ACM message shall be sent with the Optional Backward Call Indicators indicating			
	"in-band information or an appropriate pattern is now available (p.i.#8) or no indication			
	to the preceding exchange after receiving the ConnectToResource message (from the			
	SCP).			
	If the User Interactive dialogue is to be performed at a forwarding MSC or GMSC then			
	when the IP indicates through-connection and the ConnectToResource operation			
	indicates that a both way through connection is required an ANM			
	message shall be sent to the preceding exchange if answer has not previously been			
	sent. As a network operator/equipment vendor option a CPG message may be sent if			
	ANM has already been sent.			
	Disconnect Forward Connection (DFC)			
	Verify that the IUT can successfully release the "through –connect in-band info" after			
	receiving the Disconnect Forward Connection (DFC) message.			
	Connect Operation			
	Initial address information is retained in memory to allow a call setup to a new destination after disconnecting the IP.			
	Verify that the IUT can successfully map the Connect operation parameter			
	CONNECT_PAR_ID to the IAM_PAR_ID parameters of the IAM.			
	Parameters which were received in the originating user service information and are			
	not replaced by parameters of the Connect operation are treated according to the normal			
	call procedures.			
	Sending of backward messages			
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or			
	in-band information, progress), CON and ANM.			
	Receiving of Release message			
	Verify that the IUT can successfully release the call like an ordinary transit exchange.			
	Transfer and to the control occurred and the control of the control occurred by the control occurred b			
PCO / PO	Initial Detection point			
A/CAP interface	Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP			
parameter	parameter InitialIDP_PAR_ID (see annex C).			
Values (note):	Sending of backward messages			
	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,			
	ALERTING, PROGRESS or CONNECT to the originating side.			
	Receiving of a Release message			
	Verify that the IUT can successfully release the call.			
GSM parameter	GSM-BC = GSM-BC ID			
values orign.:	Synchronous/ asynchronous mode: MODE			
· alace origin.				
	User rate: USER_RATE LLC = BC_ID			
	Synchronous/ asynchronous mode: MODE			
	User rate: USER_RATE			
	HLC = HLC_ID			
L				

GGxx I_ 02	GSM ref. to: EN 300 940 TS 101 285 (GSM 02.78) St 1 TS 101 044 (GSM 03.78) St 2 TS 101 046 (GSM 09.78) St 3 TS 29.078 clause A.5	Other ref.:	
GSM parameter	GSM-BC = GSM-BC ID		
values term.:	Synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = synchronous/ asynchronous mode: MODE User rate: USER_RATE HLC = HLC_ID		
Comments:			





NOTE: The sending of the ACM message is optional.

Figure 17: User interactive dialogue service, IN call with user interactive dialogue (in-band) SSP supports requested IP capabilities, OLE does not support UID capabilities

GGxx I_ 03	GSM ref. to: Other ref.: GSM Association PRD IR.32				
	EN 300 940 clause 2.2.7				
	TS 101 285 (GSM 02.78) St 1				
	TS 101 044 (GSM 03.78) St 2				
	TS 101 046 (GSM 09.78) St 3				
TSS reference:	GSM to GSM/ /Successful/ Services with user interactive dialogue				
GSM selection	Numb_Trans, IN call with user interactive dialogue (in-band) Assist method;				
criteria orign.:	procedure in initiating SSP				
GSM selection	Services with user interactive dialogue				
criteria term.:	Services with user interactive dialogue				
Test purpose:	MS A makes a call to MS B and is connected to an IN Announcement located in SRF.				
rest purpose.					
	After the IN Announcement the user is connected to the called party.				
	Pre test Conditions:				
	A-subscriber is registered in VPLMN				
	Location update performed for originating A-Subscriber				
	Terminating B-Subscriber routed to ISUP link				
PCO / PO	Initial Detection point				
ISUP/CAP Interface	Verify that the IUT can successfully map the IAM parameter IAM_PAR_ID to the				
parameter	InitialDP parameter InitialIDP_PAR_ID (see annex C).				
Values (note):	Establish Temporary Connection				
	Verify that the IUT can successfully map the assistingSSPIPRRoutingAdress in the				
	Establish Temporary Connection message to the CdPA parameter used in the IAM.				
	Except the called party number parameter the remaining mandatory parameters of the				
	IAM message are set as defined in table 3				
	Verify that the IUT can successfully map the Disconnect Forward Connection (DFC)				
	message to a RELEASE message on the ISUP.				
	On sending of the IAM an ACM message is sent to the preceding exchange.				
	Connect Operation				
	Verify that the IUT can successfully map the Connect operation parameter				
	CONNECT_PAR_ID to the IAM_PAR_ID parameters of the IAM.				
	Parameters which were received in the originating user service information and are				
	not replaced by parameters of the Connect operation are treated according to the normal				
	call procedures.				
	Sending of backward messages				
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or				
	in-band information, progress), CON and ANM. Receiving of Release message				
DCC / DC	Verify that the IUT can successfully release the call like an ordinary transit exchange.				
PCO / PO	Initial Detection point				
A/CAP interface	Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP				
parameter	parameter InitialIDP_PAR_ID (see annex C).				
Values (note):	Sending of backward messages				
	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,				
	ALERTING, PROGRESS or CONNECT to the originating side.				
	Receiving of a Release message				
	Verify that the IUT can successfully release the call.				
GSM parameter	GSM-BC = GSM-BC_ID				
values orign.:	Synchronous/ asynchronous mode: MODE				
	User rate: USER_RATE				
	LLC = BC_ID				
	Synchronous/ asynchronous mode: MODE				
	User rate: USER_RATE				
	HLC = HLC_ID				
GSM parameter	GSM-BC = GSM-BC_ID				
values term.:	Synchronous/ asynchronous mode: MODE				
	user rate: USER_RATE				
	LLC = synchronous/ asynchronous mode: MODE				
	User rate: USER_RATE				
	HLC = HLC_ID				
Comments:	1				

Table 3: Mandatory parameters of the IAM message

a) Nature of connection indicators:				
Satellite indicator:	set as in an OLE			
Continuity check indicator:	set as in an OLE			
Echo control device indicator:	set as in an OLE			
b) Forward call indicators:				
National/international call indicator:	set as in an OLE			
End-to-end method indicator:	00 (no end-to-end method available)			
Interworking indicator:	0 (no interworking encountered)			
End-to-end information indicator:	0 (no end-to-end information available)			
ISDN user part indicator:	1 (ISDN user part used all the way)			
ISDN user part preference indicator:	10 (ISDN user part required all the way)			
ISDN access indicator:	0 (originating access non-ISDN)			
SCCP method indicator:	00 (no indication)			
c) Calling party's category:				
00001010 (ordinary subscriber).				
d) Transmission medium requirement:				
00000011 (3,1 kHz audio).				

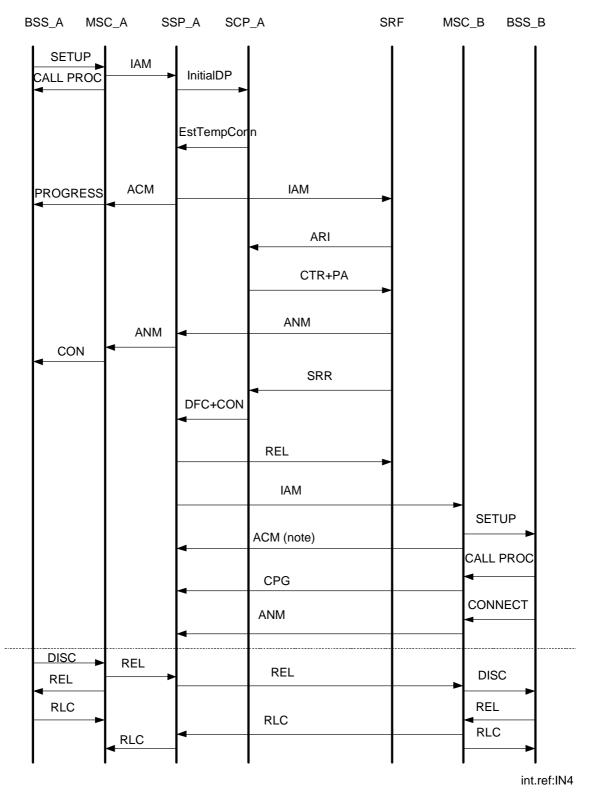


Figure 18: User interactive dialogue service, IN call with user interactive dialogue (in-band)
Assist method; procedure in initiating SSP

GGxx I_ 04	GSM ref. to: Other ref.:			
	EN 300 940			
	TS 101 285 (GSM 02.78) St 1			
	TS 101 044 (GSM 03.78) St 2			
TSS reference:	TS 101 046 (GSM 09.78) St 3			
GSM selection	GSM to GSM/ Services with user interactive dialogue /Successful			
	Numb_Trans, IN call with user interactive dialogue (in-band) Assist method; procedure in assisting SSP			
criteria orign.: GSM selection	Services with user interactive dialogue			
criteria term.:	Services with user interactive dialogue			
Test purpose:	User A makes a call to user B. The call will be routed to an IP, an AssistRegInstructions			
rest purpose.	operation is sent from the SSF to the SCF. After the UID the call is released from SCF.			
	Pre test Conditions:			
	A-subscriber is registered in VPLMN			
	Location update performed for originating A-Subscriber			
	Terminating B-Subscriber routed to ISUP link			
PCO / PO	AssistRequestInstructions operation			
ISUP/CAP Interface	If an IAM is received at an assisting SSP containing a gsmSSF or an IP containing a			
parameter	gsmSRF then an AssistRequestInstructions operation is sent to the gsmSCF. The			
Values (note):	correlationID parameter in the			
	AssistRequestInstructions operation can contain:			
	a) the CorrelationID digits extracted from the IAM Called Party Number;			
	 b) the whole Called Party Number received in the ISUP IAM (CorrelationID digits extracted at gsmSCF); 			
	c) the contents of the ISUP IAM CorrelationID parameter.			
	the contents of the 1901. TAM contention to parameter.			
	In the case where the gsmSCF and the assisting gsmSSF are both in the HPLMN and			
	ISUP 97 is supported then any of these mechanisms may be used.			
	In the case where the gsmSCF and the assisting gsmSSF are both in the HPLMN and			
	ISUP 97 is not supported then			
	mechanisms a) and b) may be used.			
	In the case where the gsmSCF is in the HPLMN and the assisting gsmSSF is in the VPLMN then only mechanism b) may be used when an all-ISUP 97 signalling path cannot be guaranteed. Mechanism a) may be used if bilateral agreements on the format of the information transferred in the ISUP IAM Called Party Number are defined between the HPLMN and VPLMN. In the case where the gsmSCF is in the HPLMN and the assisting gsmSSF is in the VPLMN then mechanism c) only may be used if an all-ISUP 97 signalling path can be guaranteed between the HPLMN and the VPLMN. ConnectToResource operation Verify that the IUT can successfully connect the IP to the incoming call to facilitate User Interactive dialogue with the user.			
	If the User Interactive dialogue is to be performed at a forwarding MSC or GMSC ther an ACM message with the Optional Backward Call Indicators indicating 'in-band information or an appropriate pattern is now available' shall be sent to the preceding exchange. If the User Interactive dialogue is to be performed at a forwarding MSC or GMSC ther when the IP indicates through-connection and the ConnectToResource operation indicates that a both way through connection is required an ANM message shall be set to the preceding exchange if answer has not previously been sent. As a network operator/equipment vendor option a CPG message may be sent if ANM has already been sent.			
PCO / PO	Initial Detection point			
A/CAP interface	Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP			
parameter	parameter InitialIDP_PAR_ID (see annex C).			
Values (note):	Sending of backward messages			
	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,			
	ALERTING, PROGRESS or CONNECT to the originating side.			
	Receiving of a Release message			
	Verify that the IUT can successfully release the call.			

GGxx I_ 04	GSM ref. to:	Other ref.:		
	EN 300 940			
	TS 101 285 (GSM 02.78) St 1			
	TS 101 044 (GSM 03.78) St 2			
	TS 101 046 (GSM 09.78) St 3			
GSM parameter	GSM-BC = GSM-BC_ID			
values orign.:	synchronous/ asynchronous mo	de: MODE		
	user rate: USER_RATE			
	LLC = BC ID			
	synchronous/ asynchronous mode: MODE			
	user rate: USER_RATE			
	HLC = HLC_ID			
GSM parameter	GSM-BC = GSM-BC_ID			
values term.:	synchronous/ asynchronous mode: MODE			
	user rate: USER_RATE			
	LLC = synchronous/ asynchronous mode: MODE			
	user rate: USER_RATE			
	HLC = HLC_ID			
Comments:				

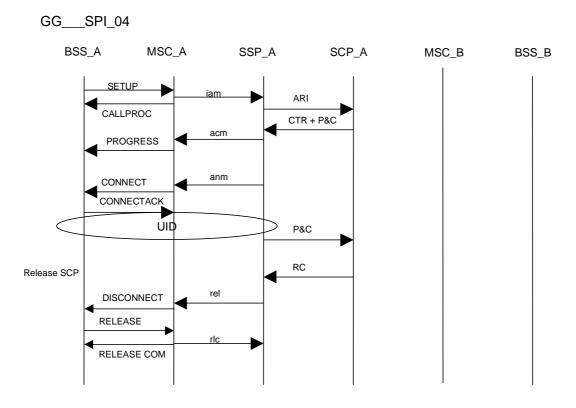


Figure 19: User interactive dialogue service, IN call with user interactive dialogue (in-band) Assist method; procedure in initiating SSP; an AssistReqInstructions operation is sent from the SSF to the SCF

Values for test purposes GGxx I_ 01 to GGxx I_ 04				
VA_01	GSM_BC_ID = speech			
	MODE: -			
	G_USER_RATE: -			
	LLC_ID = -			
	MODE: -			
	USER_RATE: -			
	HLC_ID = *			
VA_02	GSM-BC_ID = speech			
	MODE: -			
	G_USER_RATE: -			
	LLC_ID = -			
	MODE: -			
	USER_RATE: -			
	HLC_ID = Telephony			

Table 4: Sending of backward messages - ISUP

Message received or message to be sent, → respectively Messages already sent	ACM	CPG "alerting" or "in-band information or an"	CPG "progress"	CON	ANM
ACM/CON not sent	ACM (note 1)	Not relevant	Not relevant	CON (note 1)	Not relevant
ACM sent, ANM not sent	CPG (note 1)	CPG	CPG	ANM (note 1)	ANM
ANM/CON sent for previous connection, but ANM/CON not received for actual connection	CPG "progress" (notes 1 and 2)	. •	CPG "progress"	CPG "progress" (notes 1 and 2)	CPG "progress" (note 2)
ANM/CON sent for previous connection and ANM/CON received for actual connection	Not relevant	Not relevant	CPG "progress"	Not relevant	Not relevant

NOTE 1: If a serviceInteractionIndicatorsTwo parameter was provided in the INAP operation, this message carries the corresponding ISUP parameters, if applicable.

NOTE 2: An originating local exchange will discard this CPG message since no generic notification parameter is contained in the message.

7.1.3.2 Unsuccessful

Unsuccessful Services with user interactive dialogue

GG xx IU 01	GSM ref. to:	Other ref.:
	EN 300 940	
	TS 101 285 (GSM 02.78) St 1	
	TS 101 044 (GSM 03.78) St 2	
	TS 101 046 (GSM 09.78) St 3	
TSS reference:	GSM to GSM/ Services with user in	teractive dialogue/Unsuccessful
GSM selection	Numb_Trans,	
criteria orign.:		
GSM selection	Numb_Trans,	
criteria term.:		
Test purpose:		tToResource operation the call is released using the
		es received in the IAM message than "speech" or "3,1
	kHz audio" or "64 kbit/s unrestricted	d preferred" are received.
PCO / PO	Initial Detection point	
ISUP/CAP Interface		map the IAM parameter IAM_PAR_ID to the
parameter	InitialDP parameter InitialIDP_PAR	_ID (see annex C).
Values (note):	Receiving of Release message	
700 / 70		release the call like an ordinary transit exchange.
PCO / PO	Initial Detection point	
A/CAP interface	Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP	
parameter	parameter InitialIDP_PAR_ID (see annex C).	
Values (note):	Passiving of a Pologos massage	
	Receiving of a Release message Verify that the IUT can successfully	release the call
GSM parameter	GSM-BC = UDI	Tologo the dail.
values orign.:	Synchronous/ asynchronous mo	ode: PIXIT
	User rate: PIXIT	
	LLC = PIXIT	
	Synchronous/ asynchronous mode: PIXIT	
	User rate: PIXIT	
	HLC = PIXIT	
GSM parameter		
values term.:		
Comments:		

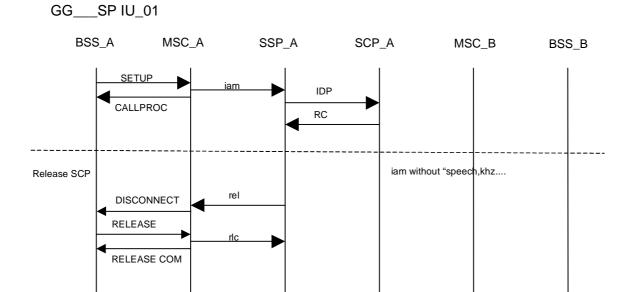


Figure 20: Unsuccessful user interactive dialogue service, call is released using the cause value #65 if other TMR values received in the IAM message than "speech" or "3,1 kHz audio" or "64 kbit/s unrestricted preferred" are received

7.1.4 Supplementary Services

GG xx NS CLIP 01	GSM ref. to:	Other ref.:	
GGxx NS CLIP 01	EN 300 940	TS 129 078 clause A.3	
	TS 101 285 (GSM 02.78) St 1	13 129 076 Clause A.3	
	TS 101 283 (GSM 02.76) St 1		
	TS 101 046 (GSM 09.78) St 3		
TSS reference:	TS 129 078, clause A.3	L ervices/Supplementary Services/CLIP	
GSM selection criteria		ervices/Supplementary Services/CLIP	
	Numb_Trans,		
orign.: GSM selection criteria	Niverb Trans		
term.:	Numb_Trans,		
Test purpose:	Engure that the ILIT can augeocaful	Uv man calling party restriction indicator 'no IN impact'	
rest purpose.	Ensure that the IUT can successfully map calling party restriction indicator 'no IN impact' received in the CAP serviceInteractionIndicatorsTwo to the calling party number address		
	presentation restricted indicator "pr		
		by the OLE is correctly delivered to the called	
	(served) user.	by the OLL is correctly delivered to the called	
PCO / PO	Initial Detection point		
ISUP/CAP Interface	No action		
parameter	Connect Operation / Continue op	peration	
Values (note):		map calling party restriction indicator 'no IN impact'	
values (note).		tionIndicatorsTwo, to the then calling party number	
		icator "presentation allowed" parameter.	
	Sending of backward messages	iodioi presentation allowed parameter.	
		map the backward messages ACM, CPG (alerting or	
	in-band information, progress), CO		
	Receiving of Release message		
		release the call like an ordinary transit exchange.	
		,	
PCO / PO	Initial Detection Point		
A/CAP interface	No action		
parameter	Sending of backward messages		
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,		
	ALERTING, PROGRESS or CONNECT to the originating side.		
		Receiving of a Release message	
	Verify that the IUT can successfully release the call.		
GSM parameter values	GSM-BC = GSM-BC_ID		
orign.:	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	fixed network user rate: FNU_RATE (note).		
	maximum number of traffic channels: No_TCH (note).		
	air interface user rate: AIU_		
	acceptable channel coding:	ICH_FX_X (note).	
	LLC = BC_ID		
	synchronous/ asynchronous mo	ode: MODE	
	user rate: USER_RATE		
001	HLC = HLC_ID		
GSM parameter values	GSM-BC = GSM-BC_ID	ada, MODE	
term.:	synchronous/ asynchronous mo	DUE. IVIODE	
	user rate: USER_RATE	mode: MODE	
	LLC = synchronous/ asynchronous user rate: USER_RATE	MOUE. WODE	
l .	userrate. USEK KATE		
Commonts	HLC = HLC_ID		
Comments:			

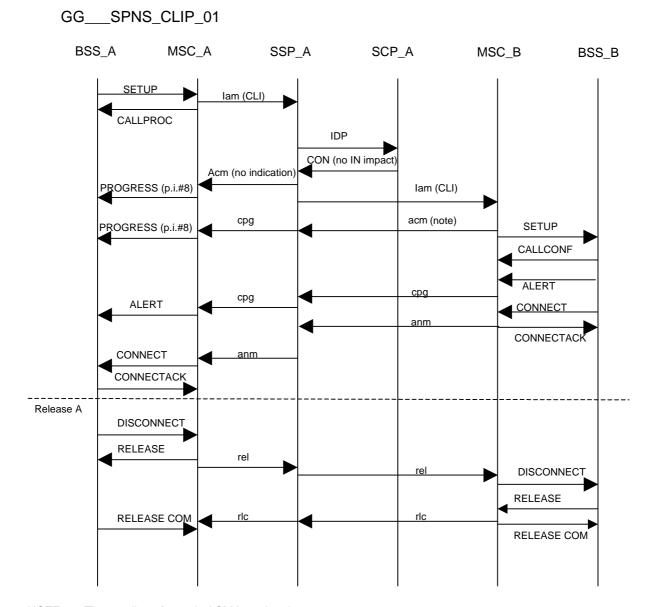


Figure 21: Number translation services; Supplementary Services; CLIP

GGxx NS CLIR 01	GSM ref. to:	Other ref.:	
GGXX NO CEIN 01	EN 300 940	TS 129 078 clause A.3	
	TS 101 285 (GSM 02.78) St 1	10 125 070 Gladde 71.0	
	TS 101 265 (GSM 02.76) St 1		
	TS 101 044 (GSM 09.78) St 3		
TSS reference:	GSM to GSM/ Number translation services/Supplementary Services/CLIR		
GSM selection criteria	Numb_Trans,	services/Supplementary Services/CLIK	
	INUITID_TTAITS,		
orign.: GSM selection criteria	Numb Trans		
term.:	Numb_Trans,		
	Francis that when Calling party and	mber is provided by the OLE, the Calling party	
Test purpose:		ivered to the called user without any digit information if	
		ng party restriction indicator "presentation restricted"	
	received in the CAR convice Interes	etionIndicatorsTwo, to the calling party number	
PCO / PO		licator 'presentation restricted' parameter.	
ISUP/CAP Interface	Initial Detection point No action		
		navation	
parameter	Connect Operation / Continue o		
Values (note):	verify that the IUT can successful	y map calling party restriction indicator "presentation viceInteractionIndicatorsTwo, to the then calling	
		restricted indicator 'presentation restricted'	
	party number address presentation parameter.	rrestricted indicator presentation restricted	
	Sending of backward messages		
		y map the backward messages ACM, CPG (alerting or	
	in-band information, progress), CON and ANM.		
	Receiving of Release message		
	Verify that the IUT can successfully release the call like an ordinary transit exchange.		
PCO / PO	Initial Detection Point		
A/CAP interface	No action		
parameter	Sending of backward messages		
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,		
Tanasa (masa).	ALERTING, PROGRESS or CONNECT to the originating side.		
	Receiving of a Release message		
	Verify that the IUT can successfully release the call.		
GSM parameter values	GSM-BC = GSM-BC_ID		
orign.:	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	fixed network user rate: FNU_RATE (note).		
	maximum number of traffic channels: No_TCH (note).		
	air interface user rate: AIU_RATE (note).		
	acceptable channel coding:		
	LLC = BC_ID	, ,	
	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	HLC = HLC_ID		
GSM parameter values	GSM-BC = GSM-BC_ID		
term.:	synchronous/ asynchronous m	ode: MODE	
	user rate: USER_RATE		
	LLC = synchronous/ asynchronous	s mode: MODE	
	user rate: USER_RATE		
	HLC = HLC_ID		
Comments:			

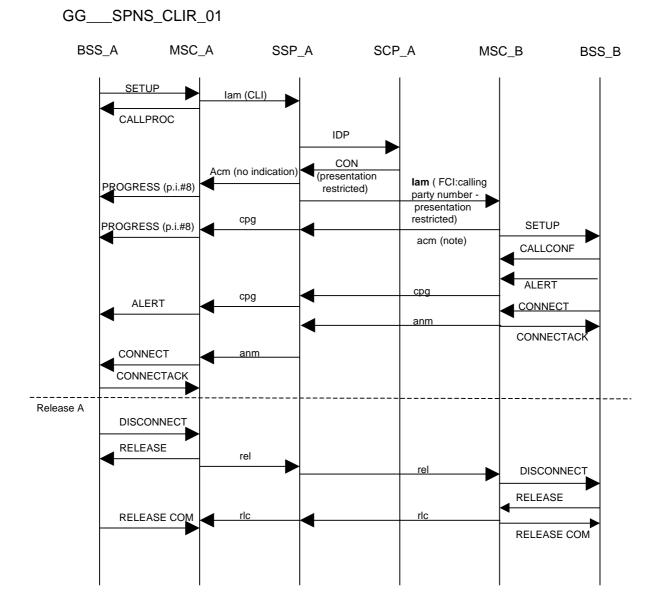


Figure 22: Number translation services; Supplementary Services; CLIR

GGxx NS CLIR 02	GSM ref. to: Other ref.:	
	EN 300 940	
	TS 101 285 (GSM 02.78) St 1	
	TS 101 044 (GSM 03.78) St 2	
	TS 101 046 (GSM 09.78) St 3	
TSS reference:	GSM to GSM/ Number translation services/Supplementary Services/CLIR	
GSM selection criteria	Numb_Trans,	
orign.:		
GSM selection criteria	Numb_Trans,	
term.:		
Test purpose:	Ensure that when Calling party number is provided by OLE with calling party restriction	
root par pooor	indicator "presentation restricted", the Calling party number information element is	
	delivered to the called user without any digit information	
	if the IUT can successfully map the calling party restriction indicator 'no IN impact'	
	received in the CAP serviceInteractionIndicatorsTwo, to the calling party number	
DOC / DO	address presentation restricted indicator "presentation allowed" parameter.	
PCO / PO	Initial Detection point	
ISUP/CAP Interface	No action	
parameter	Connect Operation / Continue operation	
Values (note):	Verify that the IUT can successfully map calling party restriction indicator "presentation	
	restricted" received in the CAP serviceInteractionIndicatorsTwo , to the then calling party	
	number address presentation restricted indicator 'presentation restricted' parameter.	
	Sending of backward messages	
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or	
	in-band information, progress), CON and ANM.	
	Receiving of Release message	
	Verify that the IUT can successfully release the call like an ordinary transit exchange.	
PCO / PO	Initial Detection Point	
A/CAP interface	No action	
parameter	Sending of backward messages	
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,	
	ALERTING, PROGRESS or CONNECT to the originating side.	
	Receiving of a Release message	
	Verify that the IUT can successfully release the call.	
GSM parameter values	GSM-BC = GSM-BC_ID	
orign.:	synchronous/ asynchronous mode: MODE	
3	user rate: USER_RATE	
	fixed network user rate: FNU_RATE (note).	
	maximum number of traffic channels: No_TCH (note).	
	air interface user rate: AIU_RATE (note).	
	acceptable channel coding: TCH_FX_X (note).	
	LLC = BC_ID	
	synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE	
	HLC = HLC_ID	
GSM parameter values	GSM-BC = GSM-BC_ID	
term.:	synchronous/ asynchronous mode: MODE	
CIIII		
	user rate: USER_RATE	
	LLC = synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE	
	HLC = HLC_ID	
Comments:		

GG___SPNS_CLIR_02

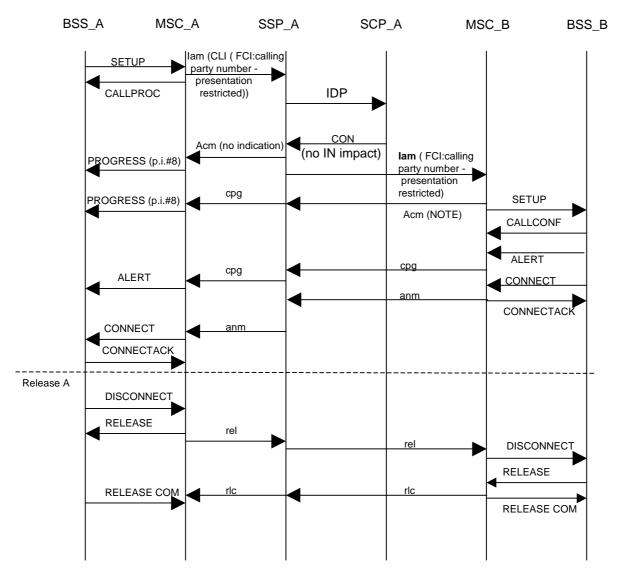


Figure 23: Number translation services; Supplementary Services CLIR with "no IN impact" parameter received in the CAP serviceInteractionIndicatorsTwo

GG xx NS COLP 01	GSM ref. to:	Other ref.:
GGX NS COLF 01	EN 300 940	TS 129 078 clause A.3
	TS 101 285 (GSM 02.78) St 1	
	TS 101 044 (GSM 03.78) St 2	
	TS 101 046 (GSM 09.78) St 3	
TSS reference:		ation services/Supplementary Services/COLP
GSM selection criteria	Numb_Trans,	ation services, cappiementary services, coef
orign.:	ivumb_rrans,	
GSM selection criteria	Numb_Trans,	
term.:	rame_rame,	
Test purpose:	Verify that if 'no IN impact' w	as received in the CAP serviceInteractionIndicatorsTwo
		t indicator), then the connected number parameter is
	passed on unchanged.	,,
		nber information element is provided and correctly
	delivered to the calling (serve	
PCO / PO	Initial Detection point	
ISUP/CAP Interface	No action	
parameter	Connect Operation / Contin	ue operation
Values (note):		d in the CAP serviceInteractionIndicatorsTwo (connected
		then a connected number parameter and a generic number
		ted number' are passed on unchanged.
	Sending of backward mess	ages
		ssfully map the backward messages ACM, CPG (alerting or
	in-band information, progress	
	Receiving of Release message	
	Verify that the IUT can successfully release the call like an ordinary transit exchange.	
PCO / PO	Initial Detection Point	
A/CAP interface	No action	
parameter	Sending of backward messages	
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,	
	ALERTING, PROGRESS or CONNECT to the originating side.	
	Receiving of a Release message	
	Verify that the IUT can successfully release the call.	
GSM parameter values	GSM-BC = GSM-BC_ID	
orign.:	synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE	
	fixed network user rate: FNU_RATE (note).	
	maximum number of traffic channels: No_TCH (note).	
	air interface user rate: AIU_RATE (note).	
		ding: TCH_FX_X (note).
	LLC = BC_ID	
	synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE	
GSM parameter values	HLC = HLC_ID	
term.:	GSM-BC = GSM-BC_ID synchronous/ asynchrono	us mode: MODE
leiii	user rate: USER_RATE	us moue. MODE
	LLC = synchronous/ asynchronous/	prous mode: MODE
	user rate: USER_RATE	onous mode. Mode
	HLC = HLC_ID	
	1	
Comments:	•	

RELEASE COM

GG___SPNS_COLP_01 BSS_A MSC_A SSP_A SCP_A MSC_B BSS_B SETUP lam (OFCI:COL requested) CALLPROC IDP CON (no IN impact) Acm (no indication PROGRESS (p.i.#8) lam (OFCI:COL requested) cpg SETUP PROGRESS (p.i.#8) Acm (NOTE) CALLCONF ALERT cpg cpg ALERT CONNECT anm CONNECTACK CONNECT anm CONNECTACK Release A DISCONNECT RELEASE rel rel DISCONNECŢ RELEASE rlc RELEASE COM rlc

Figure 24: Number translation services; Supplementary Service COLP with "no IN impact" parameter received in the CAP serviceInteractionIndicatorsTwo

CC VV NC COLD 02	GSM ref. to:	Other ref.:	
GGxx NS COLP 02	EN 300 940	TS 129 078 clause A.3	
	TS 101 285 (GSM 02.78) St 1	13 129 070 Clause A.3	
	TS 101 233 (GSM 02.76) St 1		
	TS 101 044 (GSM 09.78) St 3		
TSS reference:	GSM to GSM/ Number translation services/ Supplementary Services/COLP		
GSM selection criteria	Numb_Trans,	Scrvices, Supplementary Services, SSE	
orign.:	Numb_rrans,		
GSM selection criteria	Numb_Trans,		
term.:	Numb_rrans,		
Test purpose:	Verify that if 'presentation restric	ted' was received in the CAP	
l'ou parposo.		nen if a connected number parameter has been	
	received in the ANM or CON mess		
	restricted indicator is set to 'preser		
		information element is network provided and	
	delivered to the calling (served) us		
PCO / PO	Initial Detection point		
ISUP/CAP Interface	No action		
parameter	Connect Operation / Continue o	peration	
Values (note):	Verify that if 'presentation restricte		
		nen if a connected number parameter has been	
	received in the ANM or CON mess		
	restricted indicator is set to 'preser		
	Sending of backward messages		
		y map the backward messages ACM, CPG (alerting or	
	in-band information, progress), CC		
	Verify that the Connected number information element is network provided and		
	delivered to the calling (served) user without any digit information.		
	Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.		
	verify that the 101 can successfull	y release the call like all ordinary transit exchange.	
PCO / PO	Initial Detection Point		
A/CAP interface	No action		
parameter	Sending of backward messages		
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,		
, ,	ALERTING, PROGRESS or CONNECT to the originating side.		
	Receiving of a Release message		
	Verify that the IUT can successfully release the call.		
GSM parameter values	GSM-BC = GSM-BC_ID		
orign.:	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	fixed network user rate: FNU_		
	maximum number of traffic of		
	air interface user rate: AIU_I		
	acceptable channel coding: TCH_FX_X (note).		
	LLC = BC_ID synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE	ode. MODE	
	HLC = HLC_ID		
GSM parameter values	GSM-BC = GSM-BC_ID		
term.:	synchronous/ asynchronous m	ode: MODF	
	user rate: USER_RATE		
	LLC = synchronous/ asynchronous	s mode: MODE	
	user rate: USER_RATE		
	HLC = HLC_ID		
Comments:			



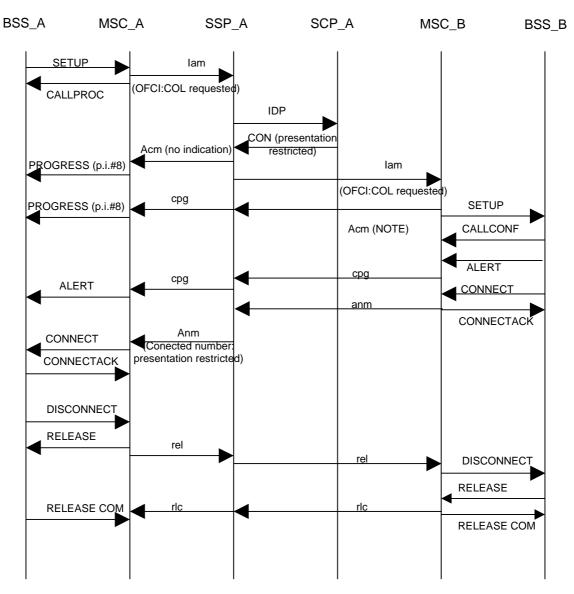


Figure 25: Number translation services; Supplementary Service COLP with "presentation restricted" parameter received in the CAP serviceInteractionIndicatorsTwo

GGG xx NS COLP 03	GSM ref. to:	Other ref.:	
GGGxx NS COLP 03		TS 129 078 clause A.3	
	EN 300 940	15 129 078 clause A.3	
	TS 101 285 (GSM 02.78) St 1		
	TS 101 044 (GSM 03.78) St 2		
	TS 101 046 (GSM 09.78) St 3		
TSS reference:	GSM to GSM/ Number translation services/Supplementary Services/COLP		
GSM selection criteria	Numb_Trans,		
orign.:			
GSM selection criteria	Numb_Trans,		
term.:	_ '		
Test purpose:	Verify that if 'presentation restricte	d' was received in the CAP	
	serviceInteractionIndicatorsTwo, then If a redirection number parameter has been		
	received, a redirection number re		
	ANM message with bits AB set to 'presentation restricted'.		
	Verify that the Connected number	information element is network provided and	
	delivered to the calling (served) us	ear without any digit information	
PCO / PO		ser without any digit information.	
	Initial Detection point		
ISUP/CAP Interface	No action	nonetic n	
parameter	Connect Operation / Continue o		
Values (note):	Verify that if 'presentation restricte		
		hen if a redirection number parameter has been	
	received, a redirection number res		
	ANM message with bits AB set to 'presentation restricted'.		
	Sending of backward messages		
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or		
	in-band information, progress), CON and ANM.		
		information element is network provided and delivered	
	to the calling (served) user withou	t any digit information.	
	Receiving of Release message		
	Verify that the IUT can successfully release the call like an ordinary transit exchange		
PCO / PO	Initial Detection Point		
A/CAP interface parameter	No action		
Values (note):	Sending of backward messages	;	
, ,	Verify that the IUT can successful	y map the backward messages CALL PROCEEDING,	
	ALERTING, PROGRESS or CONNECT to the originating side.		
		eceiving of a Release message	
	Verify that the IUT can successfully release the call.		
GSM parameter values	GSM-BC = GSM-BC_ID	,	
orign.:	synchronous/ asynchronous m	ode: MODF	
9	user rate: USER_RATE		
	fixed network user rate: FNU_	RATE (note)	
	maximum number of traffic c		
	air interface user rate: AIU_F		
	acceptable channel coding: TCH_FX_X (note).		
	LLC = BC_ID synchronous/ asynchronous mode: MODE		
		lode. MODE	
	user rate: USER_RATE		
CCM management	HLC = HLC_ID		
GSM parameter values	GSM-BC = GSM-BC_ID	ada: MODE	
term.:	synchronous/ asynchronous m	ode: MODE	
	user rate: USER_RATE		
	LLC = synchronous/ asynchronous	s mode: MODE	
	user rate: USER_RATE		
	HLC = HLC_ID		
Comments:			

GG___SPNS_COLP_03

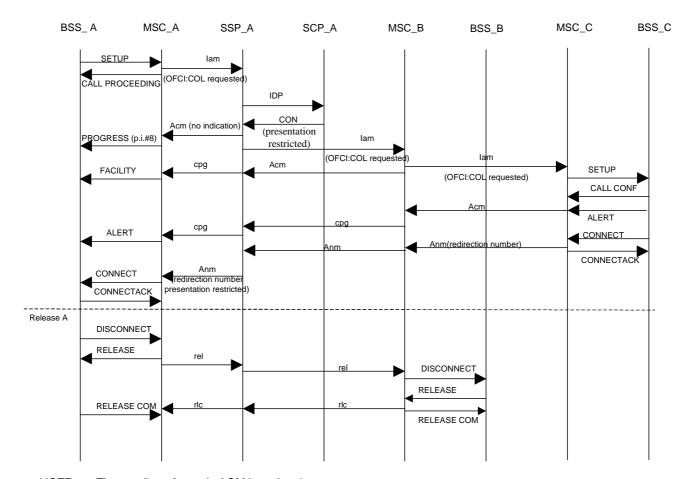


Figure 26: Number translation services; Supplementary Service COLP with "presentation restricted" parameter received in the CAP serviceInteractionIndicatorsTwo

00 w N0 001 D 04	CCM ref to:	Other ref .	
GGxx NS COLP 04	GSM ref. to:	Other ref.:	
	EN 300 940	TS 129 078 clause A.3	
	TS 101 285 (GSM 02.78) St 1		
	TS 101 044 (GSM 03.78) St 2		
TSS reference:	TS 101 046 (GSM 09.78) St 3		
	GSM to GSM/ Number translation services/Supplementary Services/COLP		
GSM selection criteria	Numb_Trans,		
orign.: GSM selection criteria			
term.:	Numb_Trans,		
	If Invesent called IN number was	received in the CAP serviceInteractionIndicatorsTwo,	
Test purpose:	1 -	· ·	
	the connected number	eter has been received in the ANM or CON message,	
		nature of address indicator and numbering plan	
	indicator are encoded as received		
		tation restricted indicator: 00 (presentation allowed),	
		e called party number and possible subsequent	
	number parameters, until the ACM		
PCO / PO	Initial Detection point	mossago mas com.	
ISUP/CAP Interface	No action		
parameter	Connect Operation / Continue of	peration	
Values (note):		eceived in the CAP serviceInteractionIndicatorsTwo,	
raides (ilete).		eter has been received in the ANM or CON message,	
	the connected number	otor ride been received in the 7 ii iii or a corvine coage,	
		nature of address indicator and numbering plan	
	indicator are encoded as received		
		tation restricted indicator: 00 (presentation allowed),	
		called party number and possible subsequent	
	number parameters, until the ACM		
	Sending of backward messages		
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or		
	in-band information, progress), CON and ANM.		
	Receiving of Release message		
	Verify that the IUT can successfully release the call like an ordinary transit exchange.		
PCO / PO	Initial Datastian Boint		
A/CAP interface	Initial Detection Point No action		
parameter	Sending of backward messages		
Values (note):			
values (ilote).	Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.		
	Receiving of a Release message		
	Verify that the IUT can successfully release the call.		
GSM parameter values	GSM-BC = GSM-BC_ID	y release the call.	
orign.:	synchronous/ asynchronous mode: MODE		
5.1g	user rate: USER_RATE		
	fixed network user rate: FNU_RATE (note).		
		c channels: No_TCH (note).	
	air interface user rate: AIU		
	acceptable channel coding		
	LLC = BC_ID	, = = (,	
	synchronous/ asynchronous me	ode: MODE	
	user rate: USER_RATE		
	HLC = HLC_ID		
GSM parameter values	GSM-BC = GSM-BC_ID		
term.:	synchronous/ asynchronous me	ode: MODE	
	user rate: USER_RATE		
I	LLC = synchronous/asynchronous	s mode: MODE	
	user rate: USER_RATE		
	HLC = HLC_ID		
Comments:			

GG___SPNS_COLP_04

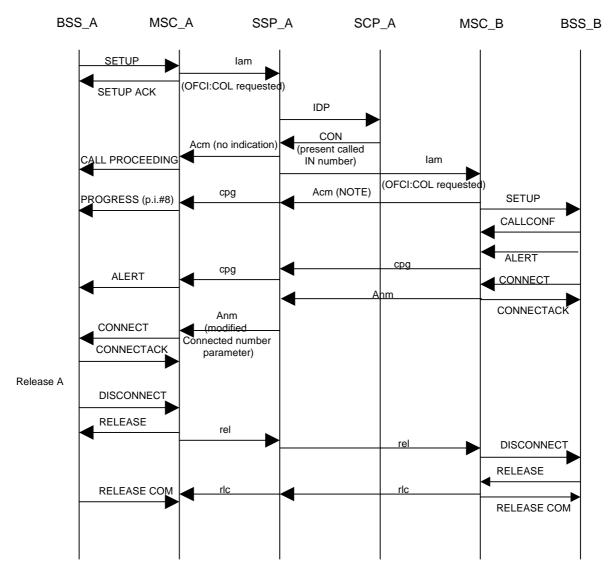


Figure 27: Number translation services; Supplementary Service COLP with "present called IN number" parameter received in the CAP serviceInteractionIndicatorsTwo

GG xx NS COLP 05	GSM ref. to:	Other ref.:
	EN 300 940	TS 129 078 clause A.3
	TS 101 285 (GSM 02.78) St 1	
	TS 101 044 (GSM 03.78) St 2	
	TS 101 046 (GSM 09.78) St 3	
TSS reference:	GSM to GSM/ Number translation	services/Supplementary Services/
GSM selection criteria	Numb_Trans,	
orign.:		
GSM selection criteria	Numb_Trans,	
term.:		
Test purpose:	If 'present called IN number' was received in the CAP serviceInteractionIndicatorsTwo, a	
	redirection number parameter is deleted from the relevant messages, if applicable.	
PCO / PO	Initial Detection point	J / 11
ISUP/CAP Interface	No action	
parameter	Connect Operation / Continue of	peration
Values (note):		eceived in the CAP serviceInteractionIndicatorsTwo, a
, ,	redirection number parameter is de	eleted from the relevant messages, if applicable.
	Sending of backward messages	3
	Verify that the IUT can successfully	map the backward messages ACM, CPG (alerting or
	in-band information, progress), CO	N and ANM.
	Receiving of Release message	
	Verify that the IUT can successfully	release the call like an ordinary transit exchange.
PCO / PO	Initial Detection Point	
A/CAP interface	No action	
parameter	Sending of backward messages	
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,	
	ALERTING, PROGRESS or CONNECT to the originating side.	
	Receiving of a Release message	
	Verify that the IUT can successfully release the call.	
GSM parameter values	GSM-BC = GSM-BC_ID	
orign.:	synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE	
	fixed network user rate: FNU_I	
	maximum number of traffic c	
	air interface user rate: AIU_RATE (note).	
	acceptable channel coding:	ГСН_FX_X (note).
	LLC = BC_ID	
	synchronous/ asynchronous mo	ode: MODE
	user rate: USER_RATE	
	HLC = HLC_ID	
GSM parameter values	GSM-BC = GSM-BC_ID	
term.:	synchronous/ asynchronous mo	ode: MODE
	user rate: USER_RATE	LAGRE
	LLC = synchronous/ asynchronous	mode: MODE
	user rate: USER_RATE	
Commonte	HLC = HLC_ID	
Comments:		

GG___SPNS_COLP_05

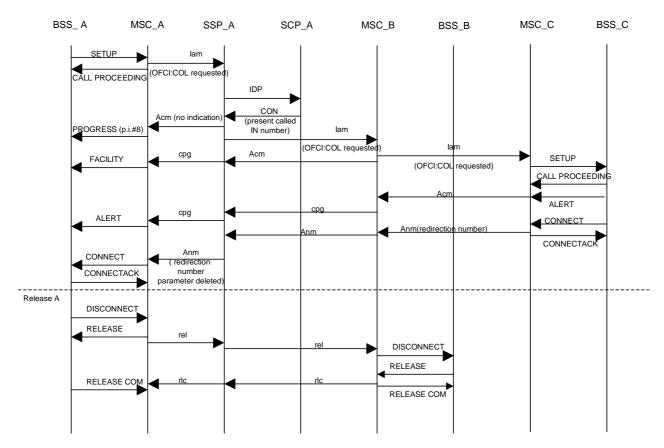


Figure 28: Number translation services; Supplementary Service COLP with "present called IN number" parameter received in the CAP serviceInteractionIndicatorsTwo

	GSM ref. to:	Other ref.:	
GGxx NS COLP 06	EN 300 940	TS 129 078 clause A.3	
	TS 101 285 (GSM 02.78) St 1	13 129 076 Clause A.3	
	TS 101 044 (GSM 03.78) St 2		
TSS reference:	TS 101 046 (GSM 09.78) St 3	samilaaa (Cummlamaastam). Camilaaa (COLD	
	Sivi to GSIV/ Number translation s	services/Supplementary Services/COLP	
GSM selection criteria	Numb_Trans,		
orign.:			
GSM selection criteria	Numb_Trans,		
term.:			
Test purpose:	If 'present called IN number restrict		
		en a redirection number parameter is deleted from	
	the relevant messages, if applicable	9.	
PCO / PO	Initial Detection point		
ISUP/CAP Interface		map the IAM parameter IAM_PAR_ID to the	
parameter	InitialDP parameter InitialIDP_PAR		
Values (note):	Connect Operation / Continue op		
	If 'present called IN number restrict		
		en a redirection number parameter is deleted from	
	the relevant messages, if applicable	Э.	
	Sending of backward messages		
		map the backward messages ACM, CPG (alerting or	
	in-band information, progress), CO	N and ANM.	
	Receiving of Release message	I di Hel e e se l	
700 / 70		release the call like an ordinary transit exchange.	
PCO / PO	Initial Detection Point		
A/CAP interface	No action		
parameter	Sending of backward messages Verify that the ULT can successfully man the backward messages CALL PROCEEDING		
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.		
	Receiving of a Release message		
	Verify that the IUT can successfully release the call.		
GSM parameter values	GSM-BC = GSM-BC ID		
orign.:	synchronous/ asynchronous mode: MODE		
3	user rate: USER_RATE		
	fixed network user rate: FNU_RATE (note).		
	maximum number of traffic channels: No_TCH (note).		
	air interface user rate: AIU_RATE (note).		
		acceptable channel coding: TCH_FX_X (note).	
		TCH FX X (note).	
	acceptable channel coding:	TCH_FX_X (note).	
	acceptable channel coding: LLC = BC_ID		
	acceptable channel coding: LLC = BC_ID synchronous/ asynchronous mo		
	acceptable channel coding: LLC = BC_ID synchronous/ asynchronous mouser rate: USER_RATE		
GSM parameter values	acceptable channel coding: LLC = BC_ID synchronous/ asynchronous mouser rate: USER_RATE HLC = HLC_ID		
GSM parameter values term.:	acceptable channel coding: LLC = BC_ID synchronous/ asynchronous mouser rate: USER_RATE HLC = HLC_ID GSM-BC = GSM-BC_ID	ode: MODE	
•	acceptable channel coding: LLC = BC_ID synchronous/ asynchronous mouser rate: USER_RATE HLC = HLC_ID	ode: MODE	
•	acceptable channel coding: LLC = BC_ID synchronous/ asynchronous mo user rate: USER_RATE HLC = HLC_ID GSM-BC = GSM-BC_ID synchronous/ asynchronous mo	ode: MODE	
<u> </u>	acceptable channel coding: LLC = BC_ID synchronous/ asynchronous mo user rate: USER_RATE HLC = HLC_ID GSM-BC = GSM-BC_ID synchronous/ asynchronous mo user rate: USER_RATE	ode: MODE	
•	acceptable channel coding: LLC = BC_ID synchronous/ asynchronous mouser rate: USER_RATE HLC = HLC_ID GSM-BC = GSM-BC_ID synchronous/ asynchronous mouser rate: USER_RATE LLC = synchronous/ asynchronous	ode: MODE	
•	acceptable channel coding: LLC = BC_ID synchronous/ asynchronous mouser rate: USER_RATE HLC = HLC_ID GSM-BC = GSM-BC_ID synchronous/ asynchronous mouser rate: USER_RATE LLC = synchronous/ asynchronous user rate: USER_RATE	ode: MODE	

GG__SPNS_COLP_06

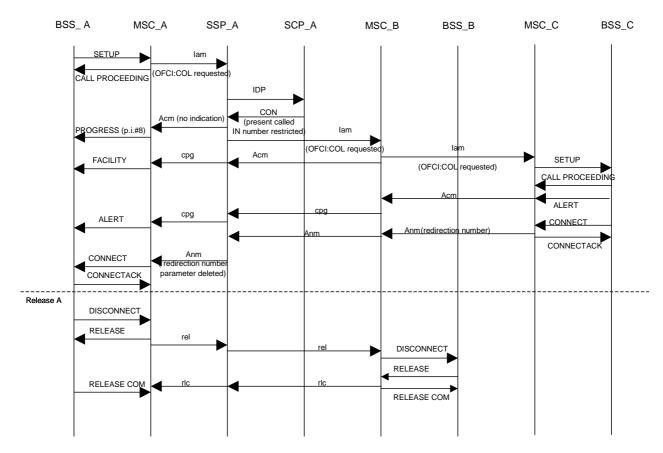


Figure 29: Number translation services; Supplementary Service COLP with "present called IN number restricted" parameter received in the CAP serviceInteractionIndicatorsTwo

GG xx NS	GSM ref. to:	Other ref.:	
CFxx01xx	EN 300 940	TS 129 078 clause A.3	
	TS 101 285 (GSM 02.78) St 1		
	TS 101 044 (GSM 03.78) St 2		
	TS 101 046 (GSM 09.78) St 3		
TSS reference:	GSM to GSM/Number translation services/Supplementary Services/CFxx		
GSM selection	Numb_Trans,		
criteria orign.:			
GSM selection	Numb_Trans,		
criteria term.:			
Test purpose:	MS A attempts a call to IN test number B. Verify that the CAP serviceInteractionIndicatorsTwo parameter (in the Connect operation (PICS) or Continue with argument operation (PICS)) indicated as default value "callDiversionAllowed" is mapped to the value "no indication" in the appropriate parameter in the IAM message. [Q.1601]. The called MS B Number has activated CFxx defined with the Parameter Value CFxx. GSM call forwarding to the Test Number 1 takes place.		
PCO / PO	Initial Detection point		
ISUP/CAP Interface parameter	No action Connect Operation / Continue op	poration	
Values (note):		n the originating user service information and are	
Values (note).	not replaced by parameters of the	Connect Operation / Continue operation are	
	message is sent to the preceding e	I procedures. If Connect Operation applies an ACM	
		tionIndicatorsTwo parameter indicated as default	
		dication" in the appropriate parameter in the IAM	
	message. [Q.1601].	and and appropriate parameter in the trun	
	Sending of backward messages		
		map the backward messages ACM, CPG (alerting or	
	in-band information, progress), CO	N and ANM.	
	Receiving of Release message		
	Verify that the IUT can successfully release the call like an ordinary transit exchange.		
PCO / PO	Initial Detection Point		
A/CAP interface	No action		
parameter Values (note):	Sending of backward messages Verify that the ULT can successfully man the backward messages CALL PROCEEDING		
values (note).	Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.		
	Receiving of a Release message		
	Verify that the IUT can successfully release the call.		
GSM parameter	GSM-BC = GSM-BC ID		
values orign.:	Synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	fixed network user rate: FNU_F	RATE (note).	
		c channels: No_TCH (note).	
	air interface user rate: AIU		
	acceptable channel coding	g: TCH_FX_X (note).	
	LLC = BC_ID Synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE	ode: MODE	
	HLC = HLC ID		
GSM parameter	GSM-BC = GSM-BC_ID		
values term.:	synchronous/ asynchronous mo	ode: MODE	
	user rate: USER_RATE	,	
	LLC = synchronous/ asynchronous	mode: MODE	
	user rate: USER_RATE	-	
	HLC = HLC_ID		
Comments:			

GGG_SPNS_CFxx_01_CFU_CON

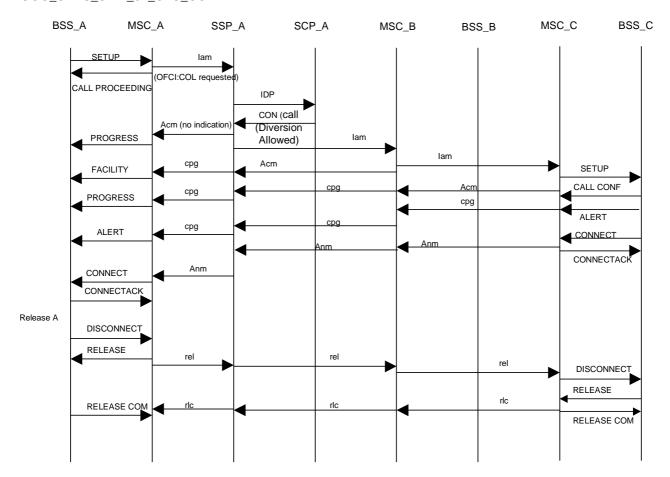


Figure 30: Number translation services; Supplementary Service CFU with the "callDiversionAllowed" parameter received in CON Message

GGG_SPNS_CFxx_01_CFU_CWA

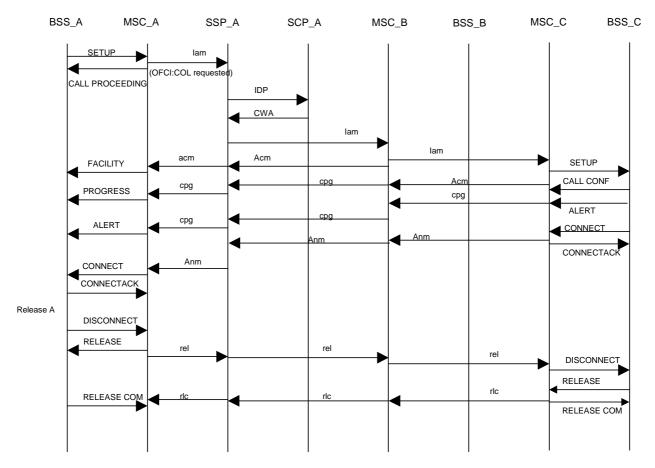


Figure 31: Number translation services; Supplementary Service CFU with the "callDiversionAllowed" parameter received in the CWA Message

GGG_SPNS_CFxx_01_CFB_CON

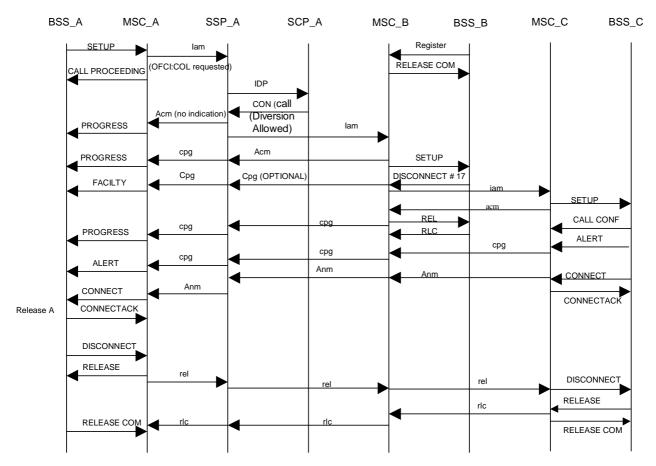


Figure 32: Number translation services; Supplementary Service CFB with the "callDiversionAllowed" parameter received in the CON Message

GGG_SPNS_CFxx_01_ CFB _CWA

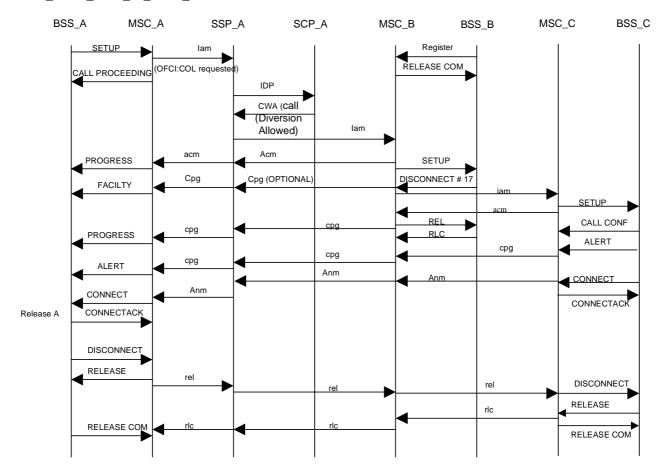


Figure 33: Number translation services; Supplementary Service CFB with the "callDiversionAllowed" parameter received in CWA Message

GGG__SPNS_CFXX_01_CFNRc_CON

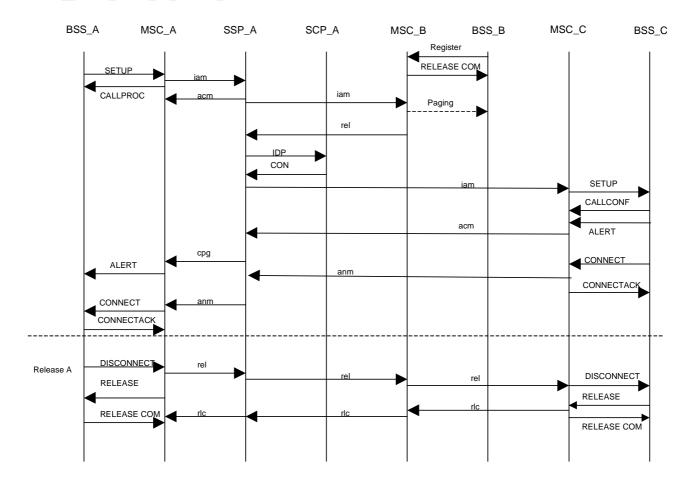
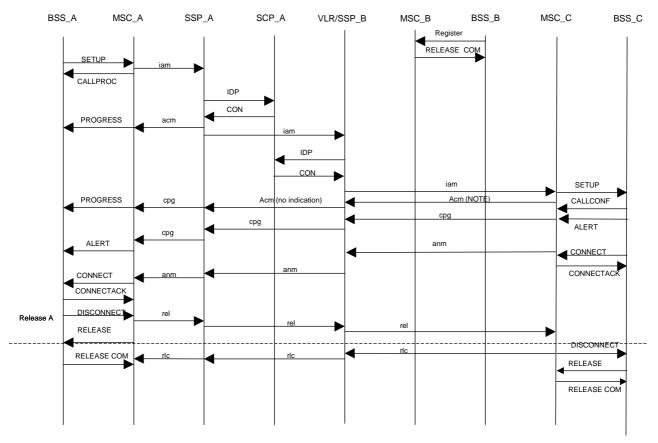


Figure 34: Number translation services; Supplementary Service CFNRc with the "callDiversionAllowed" parameter received in the CON Message

CFxx 02 EN 300 940 TS 101 285 (CSM 02.78) St 1 TS 101 044 (CSM 03.78) St 2 TS 101 046 (CSM 03.78) St 2 TS 101 046 (CSM 03.78) St 2 TS 101 046 (CSM 03.78) St 3 SSM selection Titleria orign.: SSM selection Numb_Trans, White-Trans, White-T	GG xx NS	GSM ref. to:	Other ref.:
TS 101 286 (GSM 02.78) St 1 TS 191 044 (GSM 03.78) St 2 TS 101 046 (GSM 09.78) St 3 GSM selection rifteria orign.: Numb_Trans, Numb_T			
TS 101 044 (GSM 03.78) St.2 TS 101 046 (GSM 09.78) St.3 TSS reference: GSM to GSM/ Number translation services/Supplementary Services/CFxx Mumb_Trans, Triteria ering.: SSM selection: Triteria erin: Test purpose: MS A attempts a call to MS B. HLR entry for MS B contains "O-CSI". MS B has activated Call Forwarding defined with the Parameter Value CFxx. GSM call forwarding to Test Number 1 takes place. Additionally the contents of the InitialDP is checked in the mobile forwarded case. This test case confirms that in the case of CF an originating CAMEL service is invoked for a subscriber O-CSI subscription and all required parameter are included in the IDP. Initial Detection point No action SUP/CAP Interface Joannameter Alues (note): CONNECT_PAR_ID to the IAM_PAR_ID parameters of the IAM. Parameters which were received in the originating user service information and are not replaced by parameters of the Connect operation are treated according to the normal call procedures. Sending of backward messages Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or in-band information, progress), CON and ANM. Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange. Initial Detection Point No action Sending of backward messages Verify that the IUT can successfully release the call like an ordinary transit exchange. Initial Detection Point No action Sending of backward messages Verify that the IUT can successfully release the call. SEM_BC = GSM-BC ID synchronous/ asynchronous mode: MODE user rate: USER_RATE fixed network user rate: AIU_RATE (note). air interface user rate: AIU_RATE (note). air interface user rate: AIU_RATE (note). user rate: USER_RATE HLC = HLC_ID SSM parameter ratues term.: SSM parameter ratues term.: User Tale: USER_RATE HLC = HLC_ID SSM parameter ratues term.:	01 22 02		
TS 101 046 (GSM 09.78) St 3 SSM selection rifteria orign.: SSM selection virtieria orign.: SSM selection virtieria orign.: MS A attempts a call to MS B. HLR entry for MS B contains "O-CSI". MS B has activated Call Forwarding defined with the Parameter Value CFxx. GSM call forwarding to Test Number 1 takes place. Additionally the contents of the InitialDP is checked in the mobile forwarded case. This test case confirms that in the case of CF an originating CAMEL service is invoked for a subscriber O-CSI subscription and all required parameter are included in the IDP. Initial Detection point No action Connect Operation Verify that the IUT can successfully map the Connect operation parameter CONNECT_PAR_ID to the IAM_PAR_ID parameters of the IAM. Parameters which were received in the originating user service information and are not replaced by parameters of the Connect operation are treated according to the normal call procedures. Sending of backward messages Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or in-band information, progress), CON and ANM. Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange. Initial Detection Point No action Receiving of Release messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message Verify that the IUT can successfully release the call. SSM parameter ralues orign.: SSM parameter ralues orign.: CSM-BC = GSM-BC ID Synchronous/ asynchronous mode: MODE user rate: USER_RATE fixed network user rate: AIU_RATE (note), acceptable channel coding: TCH_FX_X (note). LLC = BC_ID SSM parameter ralues term.: USER_RATE LLC = synchronous/ asynchronous mode: MODE user rate: USER_RATE LL			10 123 070 010030 71.0
GSM to GSM Number translation services/Supplementary Services/CFxx			
SSM selection criteria orign.: SSM selection ritteria orign.: Numb_Trans, criteria orign.: Numb_Trans, Numb_Trans, MS A attempts a call to MS B. HLR entry for MS B contains "O-CSI". MS B has activated Call Forwarding defined with the Parameter Value CFxx. GSM call forwarding to Test Number 1 takes place. Additionally the contents of the InitialDP is checked in the mobile forwarded case. This test case confirms that in the case of CF an originating CAMEL service is invoked for a subscriber O-CSI subscription and all required parameter are included in the IDP. Initial Detection point No action Connect Operation Connect Operation progress). CON and the originating user service information and are not replaced by parameters of the Connect operation are treated according to the normal call procedures. Sending of backward messages Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or in-band information, progress). CON and ANM. Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange. Initial Detection Point No action Sam parameter Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message Verify that the IUT can successfully release the call. SSM parameter Verify that the IUT can successfully release the call. SSM-BC = GSM-BC, ID Synchronous/ asynchronous mode: MODE user rate: USER_RATE fixed network user rate: AIU_RATE (note), acceptable channel coding: TCH_FX_X (note). LLC = BC_ID Synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = synchronous/ asynchronous mode	TSS reference:		conject/Supplementary Services/CEvy
Authorization organical procedures. With a time process of the formation point in the formation printerial term.: With a time process of the formation point in the formation point i			services/Supplementary Services/CFXX
Numb_Trans, criteria term.:		Numb_rrans,	
Triteria term.: MS A attempts a call to MS B. HLR entry for MS B contains "O-CSI". MS B has activated Call Forwarding defined with the Parameter Value CFxx. GSM call forwarding to Test Number 1 takes place. Additionally the contents of the InitialDP is checked in the mobile forwarded case. This test case confirms that in the case of CF an originating CAMEL service is invoked for a subscriber O-CSI subscription and all required parameter are included in the IDP. Initial Detection point No action Connect Operation Verify that the IUT can successfully map the Connect operation parameter CONNECT_PAR_ID to the IAM_PAR_ID parameters of the IAM. Parameters which were received in the originating user service information and are not replaced by parameters of the Connect operation are treated according to the normal call procedures. Sending of backward messages Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or in-band information, progress), CON and ANM. Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange. Initial Detection Point No action Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message Verify that the IUT can successfully release the call. SSM parameter Values orign.: SSM parameter Values orign.: SSM parameter Values orign.: SSM parameter Values orign.: SSM parameter Values term.: VALUE = BC_ID Synchronous/ asynchronous mode: MODE USER_RATE LLC = BC_ID Synchronous/ asynchronous mode: MODE USER_RATE LLC = Synchronous/ asynchronous mode: MODE USER_RATE LLC = HLC_ID SYNChronous/ asynchronous mode: MODE USER_RATE LLC = HLC_ID SSM. parameter Values term.:		Ni. and Tanan	
MS A attempts a call to MS B. HLR entry for MS B contains "O-CSI". MS B has activated Call Forwarding defined with the Parameter Value CFxx. GSM call forwarding to Test Number 1 takes place. Additionally the contents of the InitialDP is checked in the mobile forwarded case. This test case confirms that in the case of CF an originating CAMEL service is invoked for a subscriber O-CSI subscription and all required parameter are included in the IDP. Initial Detection point No action Connect Operation C		INUMD_I rans,	
Call Forwarding defined with the Parameter Value CFxx. GSM call forwarding to Test Number 1 takes place. Additionally the contents of the InitialDP is checked in the mobile forwarded case. This test case confirms that in the case of CF an originating CAMEL service is invoked for a subscriber O-CSI subscription and all required parameter are included in the IDP. Initial Detection point No action SulP/CAP Interface Parameter (Alues (note): CONNECT_PAR_ID to the IAM_PAR_ID parameters of the IAM. Parameters which were received in the originating user service information and are not replaced by parameters of the Connect operation are treated according to the normal call procedures. Sending of backward messages Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or in-band information, progress), CON and AMM. Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange. Initial Detection Point No action Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message Verify that the IUT can successfully release the call. GSM-BC = GSM-BC = ID synchronous/ asynchronous mode: MODE user rate: USER_RATE fixed network user rate: AIU_RATE (note). acceptable channel coding: TCH_FX_X (note). LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = HLC_ID GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = Synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = Synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = Synchronous/ asynchronous mode: MODE			
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Verify that the IUT can successfully release the call. GSM parameter values orign.: GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE fixed network user rate: FNU_RATE (note). maximum number of traffic channels: No_TCH (note). air interface user rate: AIU_RATE (note). acceptable channel coding: TCH_FX_X (note). LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID GSM parameter values term.: GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID			
GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE fixed network user rate: FNU_RATE (note).			
synchronous/ asynchronous mode: MODE user rate: USER_RATE fixed network user rate: FNU_RATE (note). maximum number of traffic channels: No_TCH (note). air interface user rate: AlU_RATE (note). acceptable channel coding: TCH_FX_X (note). LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID GSM parameter values term.: GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID			y release the call.
user rate: USER_RATE fixed network user rate: FNU_RATE (note). maximum number of traffic channels: No_TCH (note). air interface user rate: AIU_RATE (note). acceptable channel coding: TCH_FX_X (note). LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID			
fixed network user rate: FNU_RATE (note). maximum number of traffic channels: No_TCH (note). air interface user rate: AIU_RATE (note). acceptable channel coding: TCH_FX_X (note). LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID GSM parameter values term.: GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID	values orign.:		
maximum number of traffic channels: No_TCH (note). air interface user rate: AIU_RATE (note). acceptable channel coding: TCH_FX_X (note). LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID GSM parameter values term.: GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = HLC_ID			
air interface user rate: AIU_RATE (note).			
acceptable channel coding: TCH_FX_X (note). LLC = BC_ID			
LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID GSM parameter values term.: GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID			
synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID GSM parameter values term.: GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID			g: TCH_FX_X (note).
user rate: USER_RATE HLC = HLC_ID GSM parameter values term.: GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID			
HLC = HLC_ID GSM parameter values term.: GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID			ode: MODE
GSM parameter values term.: GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID			
synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID			
user rate: USER_RATE LLC = synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID			
LLC = synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID	values term.:		ode: MODE
user rate: USER_RATE HLC = HLC_ID		_	
HLC = HLC_ID			mode: MODE
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· · · · · · · · · · · · · · · · · · ·	Comments:		

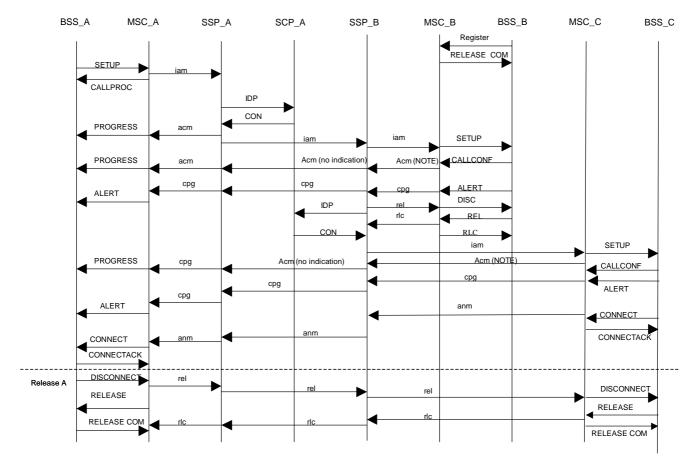
GGG__SPNS_CFXX_02_CFU



NOTE: The sending of the early ACM message is optional.

Figure 35: Number translation services; Supplementary Service CFU with the "callDiversionAllowed" parameter received in the CON message if HLR entry for MS B contains "O-CSI"

GGG__SPNS_CFxx_02_CFNRY



NOTE: The sending of the early ACM is optional.

Figure 36: Number translation services; Supplementary Service CFNRy with the "callDiversionAllowed" parameter received in the CON message if the HLR entry for MS B contains "O-CSI"

00	CCM ref. to.	Other not.
GGxx NS	GSM ref. to: EN 300 940	Other ref.: TS 129 078 clause A.3
CFxx 03		
	TS 101 285 (GSM 02.78) St 1	GSM Association PRD IR.32 clause 12.1.8
	TS 101 044 (GSM 03.78) St 2	
	TS 101 046 (GSM 09.78) St 3	
TSS reference:		services/Supplementary Services/CFxx
GSM selection	Numb_Trans,	
criteria orign.:		
GSM selection	Numb_Trans,	
criteria term.:	_ ,	
Test purpose:	MS A attempts a call to MS B. MS	B has activated Call Forwarding defined with the
' '		orwarding to IN Test Number 1 takes place.
		ialDP is checked in the mobile forwarded case.
PCO / PO	Initial Detection point	
ISUP/CAP Interface		y map the IAM parameter IAM_PAR_ID to the
parameter	InitialDP parameter InitialIDP_PAR	
Values (note):	Connect Operation	LID (See alliex C).
values (Hote).		y map the Connect operation parameter
	CONNECT_PAR_ID to the IAM_P	
		n the originating user service information and are
		Connect operation are treated according to the normal
	call procedures.	
	Sending of backward messages	
		y map the backward messages ACM, CPG (alerting or
	in-band information, progress), CO	N and ANM.
	Receiving of Release message	
		y release the call like an ordinary transit exchange.
PCO / PO	Initial Detection point	
A/CAP interface	No action	
parameter	Sending of backward messages	
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,	
	ALERTING, PROGRESS or CONNECT to the originating side.	
	Receiving of a Release message	
	Verify that the IUT can successfully	y release the call.
GSM parameter	GSM-BC = GSM-BC_ID	
values orign.:	synchronous/ asynchronous me	ode: MODE
_	user rate: USER_RATE	
	fixed network user rate: FNU_	RATE (note).
	maximum number of traffic	
	air interface user rate: AIU_	RATE (note).
	acceptable channel coding:	
	LLC = BC_ID	/
	synchronous/ asynchronous me	ode: MODE
	user rate: USER_RATE	
	HLC = HLC_ID	
GSM parameter	GSM-BC = GSM-BC ID	
values term.:	synchronous/ asynchronous me	ode: MODF
	user rate: USER_RATE	
	LLC = synchronous/ asynchronous	mode: MODE
	user rate: USER_RATE	THOUG. WICDL
	HLC = HLC_ID	
Commonts	I ILO = I ILO_ID	
Comments:		

GGG_SPNS_CFXX_03_CFNRc

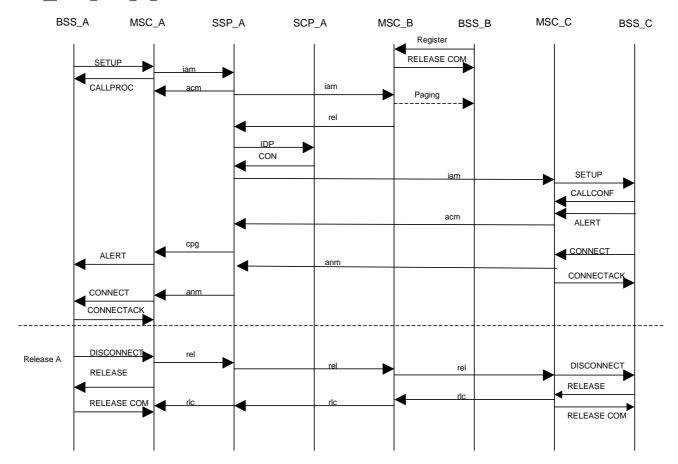


Figure 37: Number translation services; Supplementary Service CFNRc; mapping of the IAM parameter IAM_PAR_ID to the InitialDP parameter InitialIDP_PAR_ID

Interfac	Interface parameter Values for test purpose GGxx NSCFxx 01 to GG_xx NSCFxx 03		
Variable	Parameter CFxx		
VA_01	CFU		
VA_02	CFB		
VA_03	CFNRc		
VA_04	CFNRy		

GGxx NS	GSM ref. to:	Other ref.:
CFU 01	EN 300 940	TS 129 078 clause A.3
CFO 01	TS 101 285 (GSM 02.78) St 1	13 129 070 Clause A.3
	TS 101 263 (GSM 02.76) St 1	
	TS 101 044 (GSM 03.78) St 2	
TSS reference:	GSM to GSM/Number translation services/Supplementary Services/CFU	
GSM selection	Numb_Trans,	ervices/Supplementary Services/CFO
criteria orign.:	Numb_rrans,	
GSM selection	Numb_Trans,	
criteria term.:	Numb_rrans,	
Test purpose:	User A attempts a call to number B	
rest purpose.	The called user B has activated C	
		ated by the GSM subscriber is suppressed, if "call
		d in the call diversion treatment indicators (call to be
	diverted indicator). The call is offer	
PCO / PO	Initial Detection point	ed to the subscriber.
ISUP/CAP Interface	No action	
parameter	Connect Operation / Continue or	peration
Values (note):		n the originating user service information and are
Values (note).		Connect Operation / Continue operation are
		I procedures. If Connect Operation applies an ACM
	message is sent to the preceding e	
		tionIndicatorsTwo parameter value indicated "call
		to the value "call diversion not allowed" in the
	appropriate parameter in the IAM n	
	Sending of backward messages	
		map the backward messages ACM, CPG (alerting or
	in-band information, progress), CO	
	Receiving of Release message	
	Verify that the IUT can successfully release the call like an ordinary transit exchange.	
	verily that the 10 i can successfully	release the call like all oldinary transit exchange.
PCO / PO	Initial Detection point	release the call like all ordinary transit exchange.
PCO / PO A/CAP interface		release the call like all ordinary transit exchange.
	Initial Detection point	release the call like all ordinary transit exchange.
A/CAP interface	Initial Detection point No action Sending of backward messages Verify that the IUT can successfully	/ map the backward messages CALL PROCEEDING,
A/CAP interface parameter	Initial Detection point No action Sending of backward messages Verify that the IUT can successfully ALERTING, PROGRESS or CONN	/ map the backward messages CALL PROCEEDING, IECT to the originating side.
A/CAP interface parameter	Initial Detection point No action Sending of backward messages Verify that the IUT can successfully ALERTING, PROGRESS or CONN Receiving of a Release message	/ map the backward messages CALL PROCEEDING, NECT to the originating side.
A/CAP interface parameter Values (note):	Initial Detection point No action Sending of backward messages Verify that the IUT can successfully ALERTING, PROGRESS or CONN Receiving of a Release message Verify that the IUT can successfully	/ map the backward messages CALL PROCEEDING, NECT to the originating side.
A/CAP interface parameter Values (note): GSM parameter	Initial Detection point No action Sending of backward messages Verify that the IUT can successfully ALERTING, PROGRESS or CONN Receiving of a Release message Verify that the IUT can successfully GSM-BC = GSM-BC_ID	/ map the backward messages CALL PROCEEDING, NECT to the originating side. // release the call.
A/CAP interface parameter Values (note):	Initial Detection point No action Sending of backward messages Verify that the IUT can successfully ALERTING, PROGRESS or CONN Receiving of a Release message Verify that the IUT can successfully GSM-BC = GSM-BC_ID Synchronous/ asynchronous m	/ map the backward messages CALL PROCEEDING, NECT to the originating side. // release the call.
A/CAP interface parameter Values (note): GSM parameter	Initial Detection point No action Sending of backward messages Verify that the IUT can successfully ALERTING, PROGRESS or CONN Receiving of a Release message Verify that the IUT can successfully GSM-BC = GSM-BC_ID Synchronous/ asynchronous m User rate: USER_RATE	/ map the backward messages CALL PROCEEDING, NECT to the originating side. / release the call. ode: MODE
A/CAP interface parameter Values (note): GSM parameter	Initial Detection point No action Sending of backward messages Verify that the IUT can successfully ALERTING, PROGRESS or CONN Receiving of a Release message Verify that the IUT can successfully GSM-BC = GSM-BC_ID Synchronous/ asynchronous m User rate: USER_RATE Fixed network user rate: FNU_	/ map the backward messages CALL PROCEEDING, NECT to the originating side. // release the call. ode: MODE RATE (note).
A/CAP interface parameter Values (note): GSM parameter	Initial Detection point No action Sending of backward messages Verify that the IUT can successfully ALERTING, PROGRESS or CONN Receiving of a Release message Verify that the IUT can successfully GSM-BC = GSM-BC_ID Synchronous/ asynchronous m User rate: USER_RATE Fixed network user rate: FNU_ maximum number of traffic of	/ map the backward messages CALL PROCEEDING, NECT to the originating side. / release the call. ode: MODE RATE (note). channels: No_TCH (note).
A/CAP interface parameter Values (note): GSM parameter	Initial Detection point No action Sending of backward messages Verify that the IUT can successfully ALERTING, PROGRESS or CONN Receiving of a Release message Verify that the IUT can successfully GSM-BC = GSM-BC_ID Synchronous/ asynchronous m User rate: USER_RATE Fixed network user rate: FNU_ maximum number of traffic of air interface user rate: AIU_I	/ map the backward messages CALL PROCEEDING, NECT to the originating side. / release the call. ode: MODE RATE (note). channels: No_TCH (note). RATE (note).
A/CAP interface parameter Values (note): GSM parameter	Initial Detection point No action Sending of backward messages Verify that the IUT can successfully ALERTING, PROGRESS or CONN Receiving of a Release message Verify that the IUT can successfully GSM-BC = GSM-BC_ID Synchronous/ asynchronous m User rate: USER_RATE Fixed network user rate: FNU_ maximum number of traffic of air interface user rate: AIU_I acceptable channel coding:	/ map the backward messages CALL PROCEEDING, NECT to the originating side. / release the call. ode: MODE RATE (note). channels: No_TCH (note). RATE (note).
A/CAP interface parameter Values (note): GSM parameter	Initial Detection point No action Sending of backward messages Verify that the IUT can successfully ALERTING, PROGRESS or CONN Receiving of a Release message Verify that the IUT can successfully GSM-BC = GSM-BC_ID Synchronous/ asynchronous m User rate: USER_RATE Fixed network user rate: FNU_ maximum number of traffic of air interface user rate: AIU_I acceptable channel coding: LLC = BC_ID	/ map the backward messages CALL PROCEEDING, NECT to the originating side. / release the call. ode: MODE RATE (note). channels: No_TCH (note). RATE (note). TCH_FX_X (note).
A/CAP interface parameter Values (note): GSM parameter	Initial Detection point No action Sending of backward messages Verify that the IUT can successfully ALERTING, PROGRESS or CONN Receiving of a Release message Verify that the IUT can successfully GSM-BC = GSM-BC_ID Synchronous/ asynchronous m User rate: USER_RATE Fixed network user rate: FNU_ maximum number of traffic of air interface user rate: AIU_I acceptable channel coding: LLC = BC_ID Synchronous/ asynchronous m	/ map the backward messages CALL PROCEEDING, NECT to the originating side. / release the call. ode: MODE RATE (note). channels: No_TCH (note). RATE (note). TCH_FX_X (note).
A/CAP interface parameter Values (note): GSM parameter	Initial Detection point No action Sending of backward messages Verify that the IUT can successfully ALERTING, PROGRESS or CONN Receiving of a Release message Verify that the IUT can successfully GSM-BC = GSM-BC_ID Synchronous/ asynchronous m User rate: USER_RATE Fixed network user rate: FNU_ maximum number of traffic of air interface user rate: AIU_I acceptable channel coding: LLC = BC_ID Synchronous/ asynchronous m User rate: USER_RATE	/ map the backward messages CALL PROCEEDING, NECT to the originating side. / release the call. ode: MODE RATE (note). channels: No_TCH (note). RATE (note). TCH_FX_X (note).
A/CAP interface parameter Values (note): GSM parameter values orign.:	Initial Detection point No action Sending of backward messages Verify that the IUT can successfully ALERTING, PROGRESS or CONN Receiving of a Release message Verify that the IUT can successfully GSM-BC = GSM-BC_ID Synchronous/ asynchronous m User rate: USER_RATE Fixed network user rate: FNU_ maximum number of traffic c air interface user rate: AIU_I acceptable channel coding: LLC = BC_ID Synchronous/ asynchronous m User rate: USER_RATE HLC = HLC_ID	/ map the backward messages CALL PROCEEDING, NECT to the originating side. / release the call. ode: MODE RATE (note). channels: No_TCH (note). RATE (note). TCH_FX_X (note).
A/CAP interface parameter Values (note): GSM parameter values orign.:	Initial Detection point No action Sending of backward messages Verify that the IUT can successfully ALERTING, PROGRESS or CONN Receiving of a Release message Verify that the IUT can successfully GSM-BC = GSM-BC_ID Synchronous/ asynchronous m User rate: USER_RATE Fixed network user rate: FNU_ maximum number of traffic of air interface user rate: AIU_I acceptable channel coding: LLC = BC_ID Synchronous/ asynchronous m User rate: USER_RATE HLC = HLC_ID GSM-BC = GSM-BC_ID	/ map the backward messages CALL PROCEEDING, NECT to the originating side. / release the call. ode: MODE RATE (note). channels: No_TCH (note). RATE (note). TCH_FX_X (note). ode: MODE
A/CAP interface parameter Values (note): GSM parameter values orign.:	Initial Detection point No action Sending of backward messages Verify that the IUT can successfully ALERTING, PROGRESS or CONN Receiving of a Release message Verify that the IUT can successfully GSM-BC = GSM-BC_ID Synchronous/ asynchronous m User rate: USER_RATE Fixed network user rate: FNU_ maximum number of traffic c air interface user rate: AIU_I acceptable channel coding: LLC = BC_ID Synchronous/ asynchronous m User rate: USER_RATE HLC = HLC_ID GSM-BC = GSM-BC_ID Synchronous/ asynchronous m	/ map the backward messages CALL PROCEEDING, NECT to the originating side. // release the call. ode: MODE RATE (note). channels: No_TCH (note). RATE (note). TCH_FX_X (note). ode: MODE
A/CAP interface parameter Values (note): GSM parameter values orign.:	Initial Detection point No action Sending of backward messages Verify that the IUT can successfully ALERTING, PROGRESS or CONN Receiving of a Release message Verify that the IUT can successfully GSM-BC = GSM-BC_ID Synchronous/ asynchronous m User rate: USER_RATE Fixed network user rate: FNU_ maximum number of traffic c air interface user rate: AIU_I acceptable channel coding: LLC = BC_ID Synchronous/ asynchronous m User rate: USER_RATE HLC = HLC_ID GSM-BC = GSM-BC_ID Synchronous/ asynchronous m user rate: USER_RATE	/ map the backward messages CALL PROCEEDING, NECT to the originating side. / release the call. ode: MODE RATE (note). channels: No_TCH (note). RATE (note). TCH_FX_X (note). ode: MODE
A/CAP interface parameter Values (note): GSM parameter values orign.:	Initial Detection point No action Sending of backward messages Verify that the IUT can successfully ALERTING, PROGRESS or CONN Receiving of a Release message Verify that the IUT can successfully GSM-BC = GSM-BC_ID Synchronous/ asynchronous m User rate: USER_RATE Fixed network user rate: FNU_ maximum number of traffic c air interface user rate: AIU_I acceptable channel coding: LLC = BC_ID Synchronous/ asynchronous m User rate: USER_RATE HLC = HLC_ID GSM-BC = GSM-BC_ID Synchronous/ asynchronous m user rate: USER_RATE LLC = synchronous/ asynchronous	/ map the backward messages CALL PROCEEDING, NECT to the originating side. / release the call. ode: MODE RATE (note). channels: No_TCH (note). RATE (note). TCH_FX_X (note). ode: MODE
A/CAP interface parameter Values (note): GSM parameter values orign.:	Initial Detection point No action Sending of backward messages Verify that the IUT can successfully ALERTING, PROGRESS or CONN Receiving of a Release message Verify that the IUT can successfully GSM-BC = GSM-BC_ID Synchronous/ asynchronous m User rate: USER_RATE Fixed network user rate: FNU_ maximum number of traffic of air interface user rate: AIU_I acceptable channel coding: LLC = BC_ID Synchronous/ asynchronous m User rate: USER_RATE HLC = HLC_ID GSM-BC = GSM-BC_ID Synchronous/ asynchronous m user rate: USER_RATE LLC = synchronous/ asynchronous User rate: USER_RATE	/ map the backward messages CALL PROCEEDING, NECT to the originating side. / release the call. ode: MODE RATE (note). channels: No_TCH (note). RATE (note). TCH_FX_X (note). ode: MODE
A/CAP interface parameter Values (note): GSM parameter values orign.: GSM parameter values term.:	Initial Detection point No action Sending of backward messages Verify that the IUT can successfully ALERTING, PROGRESS or CONN Receiving of a Release message Verify that the IUT can successfully GSM-BC = GSM-BC_ID Synchronous/ asynchronous m User rate: USER_RATE Fixed network user rate: FNU_ maximum number of traffic c air interface user rate: AIU_I acceptable channel coding: LLC = BC_ID Synchronous/ asynchronous m User rate: USER_RATE HLC = HLC_ID GSM-BC = GSM-BC_ID Synchronous/ asynchronous m user rate: USER_RATE LLC = synchronous/ asynchronous	/ map the backward messages CALL PROCEEDING, NECT to the originating side. / release the call. ode: MODE RATE (note). channels: No_TCH (note). RATE (note). TCH_FX_X (note). ode: MODE
A/CAP interface parameter Values (note): GSM parameter values orign.:	Initial Detection point No action Sending of backward messages Verify that the IUT can successfully ALERTING, PROGRESS or CONN Receiving of a Release message Verify that the IUT can successfully GSM-BC = GSM-BC_ID Synchronous/ asynchronous m User rate: USER_RATE Fixed network user rate: FNU_ maximum number of traffic of air interface user rate: AIU_I acceptable channel coding: LLC = BC_ID Synchronous/ asynchronous m User rate: USER_RATE HLC = HLC_ID GSM-BC = GSM-BC_ID Synchronous/ asynchronous m user rate: USER_RATE LLC = synchronous/ asynchronous User rate: USER_RATE	/ map the backward messages CALL PROCEEDING, NECT to the originating side. / release the call. ode: MODE RATE (note). channels: No_TCH (note). RATE (note). TCH_FX_X (note). ode: MODE
A/CAP interface parameter Values (note): GSM parameter values orign.: GSM parameter values term.:	Initial Detection point No action Sending of backward messages Verify that the IUT can successfully ALERTING, PROGRESS or CONN Receiving of a Release message Verify that the IUT can successfully GSM-BC = GSM-BC_ID Synchronous/ asynchronous m User rate: USER_RATE Fixed network user rate: FNU_ maximum number of traffic of air interface user rate: AIU_I acceptable channel coding: LLC = BC_ID Synchronous/ asynchronous m User rate: USER_RATE HLC = HLC_ID GSM-BC = GSM-BC_ID Synchronous/ asynchronous m user rate: USER_RATE LLC = synchronous/ asynchronous User rate: USER_RATE	/ map the backward messages CALL PROCEEDING, NECT to the originating side. / release the call. ode: MODE RATE (note). channels: No_TCH (note). RATE (note). TCH_FX_X (note). ode: MODE

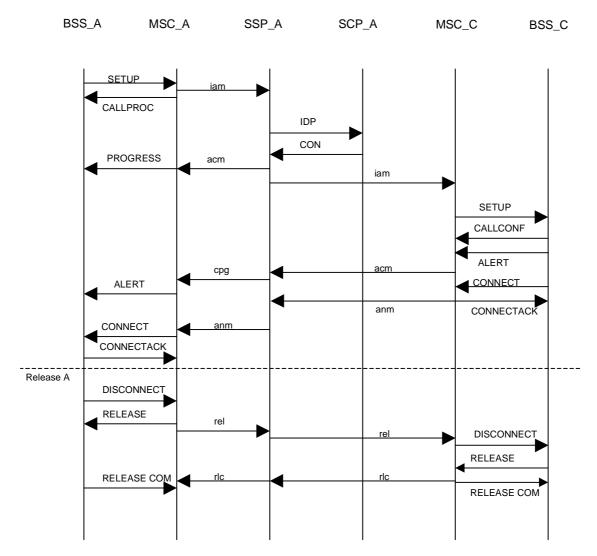


Figure 38: Number translation services; Supplementary Service CFU; Call forwarding unconditional activated by the GSM subscriber is suppressed, if "call diversion not allowed" was received in the call diversion treatment indicators

	GSM ref. to: Other ref.:	
GGxx NS CFB 01	EN 300 940 TS 129 078 clause A.3	
CIDUI	TS 101 285 (GSM 02.78) St 1	
	TS 101 044 (GSM 03.78) St 2	
	TS 101 046 (GSM 09.78) St 3	
TSS reference:	GSM to GSM/Number translation services/Supplementary Services/	
GSM selection	Numb Trans,	
criteria orign.:		
GSM selection	Numb_Trans,	
criteria term.:		
Test purpose:	User A attempts a call to user B.	
	The called user B Number has activated CFB.	
	Call forwarding busy activated by the GSM subscriber is not performed, if "call diversion	
	not allowed" was received in the call diversion treatment indicators (call to be diverted	
	indicator). The call is released using the appropriate cause in the REL message.	
PCO / PO	Initial Detection point	
ISUP/CAP Interface	No action	
parameter	Connect Operation / Continue operation	
Values (note):	Parameters which were received in the originating user service information and are	
	not replaced by parameters of the Connect Operation / Continue operation are	
	treated according to the normal call procedures. If Connect Operation applies an ACM	
	message is sent to the preceding exchange.	
	Verify that the CAP serviceInteractionIndicatorsTwo parameter value indicated "call	
	diversion not allowed", is mapped to the value "call diversion not allowed" in the	
	appropriate parameter in the IAM message. Sending of backward messages	
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or	
	in-band information, progress), CON and ANM.	
	Receiving of Release message	
	Verify that the IUT can successfully release the call like an ordinary transit exchange.	
PCO / PO		
II 00 / F 0	Initial Detection point	
A/CAP interface	Initial Detection point No action	
	No action	
A/CAP interface		
A/CAP interface parameter	No action Sending of backward messages	
A/CAP interface parameter	No action Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message	
A/CAP interface parameter Values (note):	No action Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message Verify that the IUT can successfully release the call.	
A/CAP interface parameter Values (note): GSM parameter	No action Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message Verify that the IUT can successfully release the call. GSM-BC = GSM-BC_ID	
A/CAP interface parameter Values (note):	No action Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message Verify that the IUT can successfully release the call. GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE	
A/CAP interface parameter Values (note): GSM parameter	No action Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message Verify that the IUT can successfully release the call. GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE	
A/CAP interface parameter Values (note): GSM parameter	No action Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message Verify that the IUT can successfully release the call. GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE fixed network user rate: FNU_RATE (note).	
A/CAP interface parameter Values (note): GSM parameter	No action Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message Verify that the IUT can successfully release the call. GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE fixed network user rate: FNU_RATE (note). maximum number of traffic channels: No_TCH (note).	
A/CAP interface parameter Values (note): GSM parameter	No action Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message Verify that the IUT can successfully release the call. GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE fixed network user rate: FNU_RATE (note). maximum number of traffic channels: No_TCH (note). air interface user rate: AIU_RATE (note).	
A/CAP interface parameter Values (note): GSM parameter	No action Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message Verify that the IUT can successfully release the call. GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE fixed network user rate: FNU_RATE (note). maximum number of traffic channels: No_TCH (note). air interface user rate: AIU_RATE (note). acceptable channel coding: TCH_FX_X (note).	
A/CAP interface parameter Values (note): GSM parameter	No action Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message Verify that the IUT can successfully release the call. GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE fixed network user rate: FNU_RATE (note). maximum number of traffic channels: No_TCH (note). air interface user rate: AIU_RATE (note). acceptable channel coding: TCH_FX_X (note). LLC = BC_ID	
A/CAP interface parameter Values (note): GSM parameter	No action Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message Verify that the IUT can successfully release the call. GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE fixed network user rate: FNU_RATE (note). maximum number of traffic channels: No_TCH (note). air interface user rate: AIU_RATE (note). acceptable channel coding: TCH_FX_X (note). LLC = BC_ID synchronous/ asynchronous mode: MODE	
A/CAP interface parameter Values (note): GSM parameter	No action Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message Verify that the IUT can successfully release the call. GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE fixed network user rate: FNU_RATE (note). maximum number of traffic channels: No_TCH (note). air interface user rate: AIU_RATE (note). acceptable channel coding: TCH_FX_X (note). LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE	
A/CAP interface parameter Values (note): GSM parameter values orign.:	No action Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message Verify that the IUT can successfully release the call. GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE fixed network user rate: FNU_RATE (note). maximum number of traffic channels: No_TCH (note). air interface user rate: AIU_RATE (note). acceptable channel coding: TCH_FX_X (note). LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID	
A/CAP interface parameter Values (note): GSM parameter	No action Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message Verify that the IUT can successfully release the call. GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE fixed network user rate: FNU_RATE (note). maximum number of traffic channels: No_TCH (note). air interface user rate: AIU_RATE (note). acceptable channel coding: TCH_FX_X (note). LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID GSM-BC = GSM-BC_ID	
A/CAP interface parameter Values (note): GSM parameter values orign.:	No action Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message Verify that the IUT can successfully release the call. GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE fixed network user rate: FNU_RATE (note). maximum number of traffic channels: No_TCH (note). air interface user rate: AIU_RATE (note). acceptable channel coding: TCH_FX_X (note). LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID	
A/CAP interface parameter Values (note): GSM parameter values orign.:	No action Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message Verify that the IUT can successfully release the call. GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE fixed network user rate: FNU_RATE (note). maximum number of traffic channels: No_TCH (note). air interface user rate: AIU_RATE (note). acceptable channel coding: TCH_FX_X (note). LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID GSM-BC = GSM-BC_ID Synchronous/ asynchronous mode: MODE	
A/CAP interface parameter Values (note): GSM parameter values orign.:	No action Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message Verify that the IUT can successfully release the call. GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE fixed network user rate: FNU_RATE (note). maximum number of traffic channels: No_TCH (note). air interface user rate: AIU_RATE (note). acceptable channel coding: TCH_FX_X (note). LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID GSM-BC = GSM-BC_ID Synchronous/ asynchronous mode: MODE User rate: USER_RATE	
A/CAP interface parameter Values (note): GSM parameter values orign.:	No action Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message Verify that the IUT can successfully release the call. GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE fixed network user rate: FNU_RATE (note). maximum number of traffic channels: No_TCH (note). air interface user rate: AIU_RATE (note). acceptable channel coding: TCH_FX_X (note). LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID GSM-BC = GSM-BC_ID Synchronous/ asynchronous mode: MODE User rate: USER_RATE LLC = synchronous/ asynchronous mode: MODE	
A/CAP interface parameter Values (note): GSM parameter values orign.:	No action Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message Verify that the IUT can successfully release the call. GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE fixed network user rate: FNU_RATE (note). maximum number of traffic channels: No_TCH (note). air interface user rate: AIU_RATE (note). acceptable channel coding: TCH_FX_X (note). LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID GSM-BC = GSM-BC_ID Synchronous/ asynchronous mode: MODE User rate: USER_RATE LLC = synchronous/ asynchronous mode: MODE user rate: USER_RATE	
A/CAP interface parameter Values (note): GSM parameter values orign.: GSM parameter values term.:	No action Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message Verify that the IUT can successfully release the call. GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE fixed network user rate: FNU_RATE (note). maximum number of traffic channels: No_TCH (note). air interface user rate: AIU_RATE (note). acceptable channel coding: TCH_FX_X (note). LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID GSM-BC = GSM-BC_ID Synchronous/ asynchronous mode: MODE User rate: USER_RATE LLC = synchronous/ asynchronous mode: MODE user rate: USER_RATE	

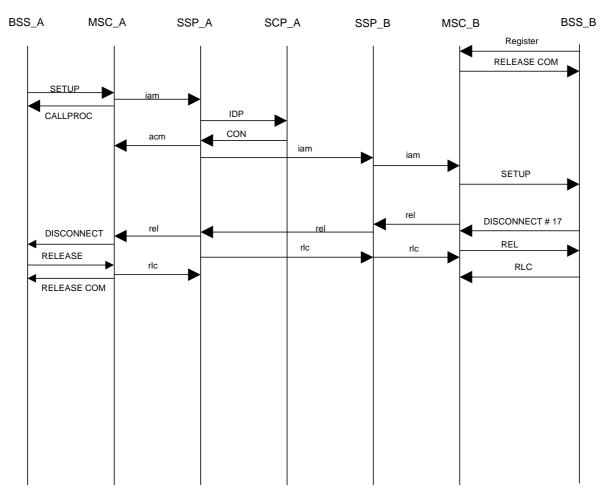


Figure 39: Number translation services; Supplementary Service CFB; Call forwarding unconditional activated by the GSM subscriber is suppressed, if "call diversion not allowed" was received in the call diversion treatment indicators

GG xx NS	GSM ref. to:	Other ref.:	
CFNR 01	EN 300 940	Other ref.:	
CHINO	TS 101 285 (GSM 02.78) St 1	TS 129 078 clause A.3	
	TS 101 283 (GSM 02.78) St 1	13 129 076 Clause A.3	
	TS 101 044 (GSM 03.76) St 2		
TSS reference:		ISDN to GSM/Number translation services/Supplementary Services/CF	
GSM selection	Numb_Trans,	services/ouppiementary dervices/or	
criteria orign.:	Numb_rrans,		
GSM selection	Numb_Trans,		
criteria term.:	rvanib_rrans,		
Test purpose:	User A attempts a call to user B.		
Tool parpoool	The called user B Number has acti	vated CFNR.	
		by the GSM subscriber is not performed, if "call	
		d in the call diversion treatment indicators (call to be	
	diverted indicator). Call offering to		
PCO / PO	Initial Detection point		
ISUP/CAP Interface	No action		
parameter	Connect Operation / Continue of	peration	
Values (note):		n the originating user service information and are	
		Connect Operation / Continue operation are	
		Il procedures. If Connect Operation applies an ACM	
	message is sent to the preceding e		
	Verify that the CAP serviceInterac	tionIndicatorsTwo parameter value indicated "call	
		to the value "call diversion not allowed" in the	
	appropriate parameter in the IAM r		
	Sending of backward messages		
		y map the backward messages ACM, CPG (alerting or	
	in-band information, progress), CO Receiving of Release message	in and Anivi.	
		y release the call like an ordinary transit exchange.	
PCO / PO	Initial Detection point	y release the call like all ordinary transit exchange.	
A/CAP interface	No action		
parameter	Sending of backward messages		
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,		
	ALERTING, PROGRESS or CONNECT to the originating side.		
	Receiving of a Release message		
	Verify that the IUT can successfully		
GSM parameter	GSM-BC = GSM-BC_ID		
values orign.:	synchronous/ asynchronous me	ode: MODE	
	user rate: USER_RATE		
	fixed network user rate: FNU_		
	maximum number of traffic of	channels: No_TCH (note).	
	air interface user rate: AIU_		
	acceptable channel coding:	TCH_FX_X (note).	
	LLC = BC_ID	I MODE	
	synchronous/ asynchronous me	ode: MODE	
	user rate: USER_RATE		
GSM parameter	HLC = HLC_ID		
values term.:	GSM-BC = GSM-BC_ID Synchronous/ asynchronous m	ode: MODE	
values tellii.	User rate: USER_RATE	OUG. MIODE	
	LLC = synchronous/ asynchronous	s mode: MODE	
	user rate: USER_RATE	, mode. MODE	
	HLC = HLC_ID		
Comments:	15 - 1.125_15		

GG xx NS CCBS 01	GSM ref. to:	Other ref.:
GGX 110 GGB9 01	EN 300 940	
	TS 101 285 (GSM 02.78) St 1	
	TS 101 044 (GSM 03.78) St 2	
	TS 101 044 (GSM 09.78) St 2	
TSS reference:		ervices/Supplementary Services/CCBS
GSM selection criteria	Numb_Trans,	ervices/00ppierneritary dervices/00b0
orign.:	rans,	
GSM selection criteria	Numb_Trans,	
term.:		
Test purpose:	Verify that the CAP serviceInteractionIndicatorsTwo parameter value (in the Connect operation (PICS) or Continue operation (PICS)) indicated "accept CCBS service request (default)", is mapped to the value "CCBS possible" in the appropriate parameter in the REL message.	
PCO / PO	Initial Detection point	
ISUP/CAP Interface	No action	
parameter	Connect Operation / Continue op	
Values (note):	Parameters which were received in the originating user service information and are not replaced by parameters of the Connect Operation / Continue operation are treated according to the normal call procedures. If Connect Operation applies an ACM message	
	is sent to the preceding exchange. Verify that the CAP serviceInteractionIndicatorsTwo parameter value indicated "accept CCBS service request (default)", is mapped to the value " CCBS possible" in the appropriate parameter in the REL message. Receiving of Release message	
	Verify that the IUT can successfully release the call like an ordinary transit exchange.	
PCO / PO	Initial Detection point	
A/CAP interface	No action	
parameter	Sending of backward messages	
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.	
	Receiving of a Release message	
	Verify that the IUT can successfully release the call.	
GSM parameter values	GSM-BC = GSM-BC_ID	
orign.:	synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE	2ATE (
	fixed network user rate: FNU_F	
	maximum number of traffic o	
	air interface user rate: AIU_I	
	acceptable channel coding: LLC = BC ID	TCH_FX_X (note).
	synchronous/ asynchronous mo	nde: MODE
	user rate: USER_RATE	NGO. MODE
	HLC = HLC_ID	
GSM parameter values	GSM-BC = GSM-BC_ID	
term.:	Synchronous/ asynchronous mode: MODE User rate: USER_RATE	
	LLC = synchronous/ asynchronous	mode: MODE
	user rate: USER_RATE	
	HLC = HLC_ID	
Comments:	- -	
1		

GG xx NS CCBS 02	GSM ref. to:	Other ref.:
GGXX NO CCB3 02	EN 300 940	TS 129 078 clause A.3
	TS 101 285 (GSM 02.78) St 1	13 129 070 clause A.3
	TS 101 283 (GSM 02.76) St 1	
	TS 101 044 (GSM 03.76) St 2	
TSS reference:	GSM to GSM/ Number translation services/Supplementary Services/CCBS	
GSM selection criteria	Numb_Trans,	services/Supplementary Services/COBS
orign.:	Numb_rrans,	
GSM selection criteria	Numb_Trans,	
term.:	Numb_mans,	
Test purpose:	To verify that the Call is not route	d to the Called Party Number, but to a translated
Tool parpooe.	Number.	a to the cancer arty reambor, but to a translated
		vas received in the CAP serviceInteractionIndicator
		ent indicator) in the Connect operation (PICS) or
		ited", then in a received REL message a "CCBS
		of the cause indicators is replaced with "CCBS not
	possible".	The dade indicators is replaced with Gebe not
PCO / PO	Initial Detection point	
ISUP/CAP Interface	No action	
parameter	Connect Operation / Continue of	pperation
Values (note):		in the originating user service information and are
, ,		Connect Operation / Continue operation are treated
		edures. If Connect Operation applies an ACM message
	is sent to the preceding exchange).
	Verify that the CAP serviceIntera	ctionIndicatorsTwo parameter value (in the Connect
		ndicated "reject CCBS service request", is mapped to
	the value "CCBS not possible " in	the appropriate parameter in the REL message.
	Receiving of Release message	
	Verify that the IUT can successfully release the call like an ordinary transit exchange.	
PCO / PO	Initial Detection point	
A/CAP interface	No action	
parameter	Sending of backward messages	
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,	
	ALERTING, PROGRESS or CONNECT to the originating side.	
	Receiving of a Release message	
	Verify that the IUT can successful	ly release the call.
GSM parameter values	GSM-BC = GSM-BC_ID	
orign.:	synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE	DATE ()
	fixed network user rate: FNU_	
	maximum number of traffic	
	air interface user rate: AIU_ acceptable channel coding:	
	LLC = BC_ID	TCH_FX_X (Hote).
	synchronous/ asynchronous m	anda: MODE
	user rate: USER_RATE	iode. MODE
	HLC = HLC_ID	
GSM parameter values	GSM-BC = GSM-BC_ID	
term.:	Synchronous/ asynchronous n	node: MODE
	User rate: USER_RATE	MODE
	LLC = synchronous/ asynchronou	s mode: MODE
	user rate: USER_RATE	o modo. Mode
	HLC = HLC_ID	
Comments:		
Comments.		

7.2 Support of IN services - Fixed Networks - Mobile

7.2.1 IN configurations

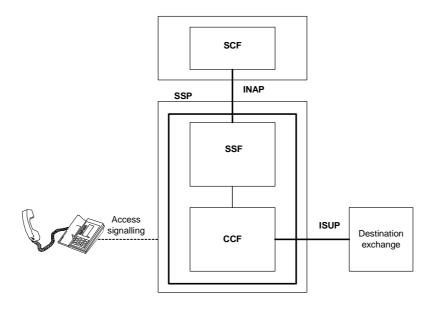


Figure 40: Outgoing case; Signalling configuration for IN call without SRF support

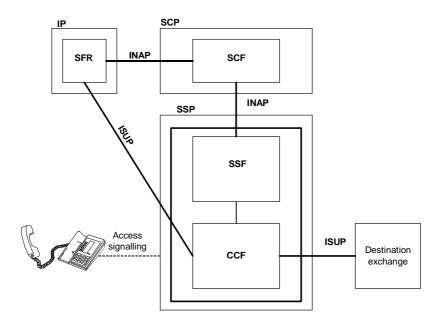


Figure 41: Outgoing case - External IP connected via ISUP; direct TCAP between SRF and SCF ("Assist" method)

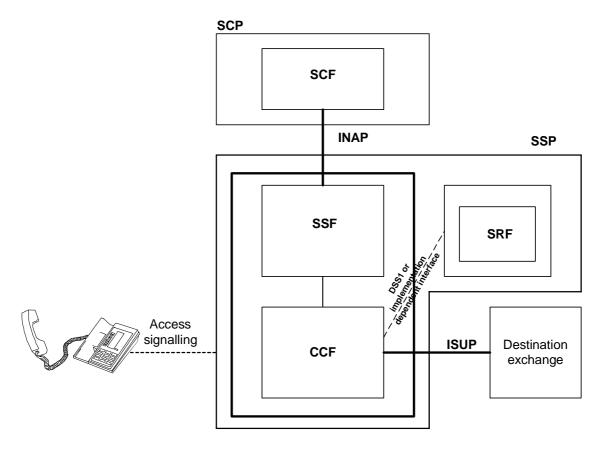


Figure 42: Outgoing case (Connection to integrated or external IP with SSP relay of IP operations)

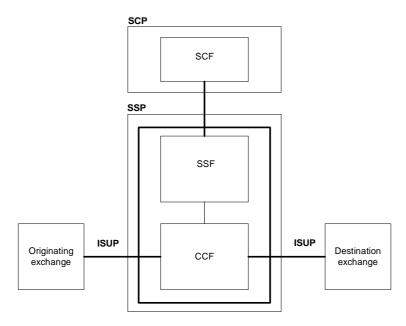
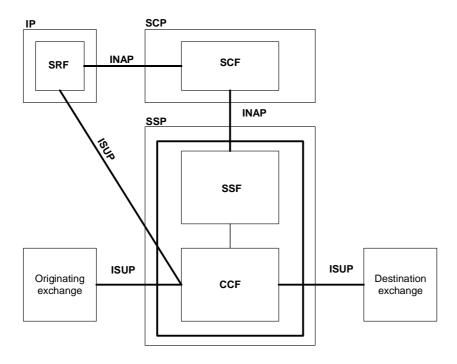


Figure 43: Terminating SSP - Signalling configuration for IN call without SRF support



NOTE: This method may be used in some networks. However, problems are identified regarding network integrity aspects and standardized solutions of the ISUP signalling for this type of interface.

Figure 44: Terminating SSP [External IP connected via ISUP; direct TCAP link between SRF and SCF ("Assist" method)]

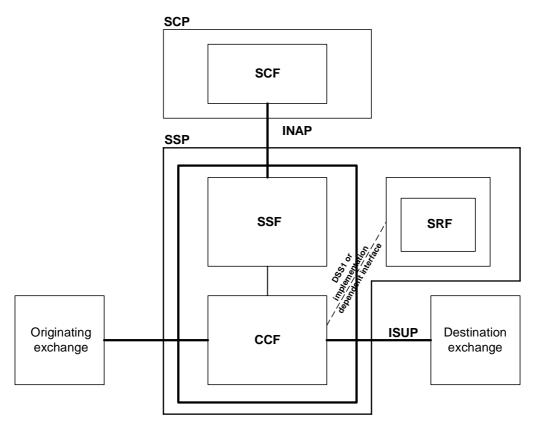


Figure 45: Terminating case (Connection to integrated or external IP with SSP relay of IP operations)

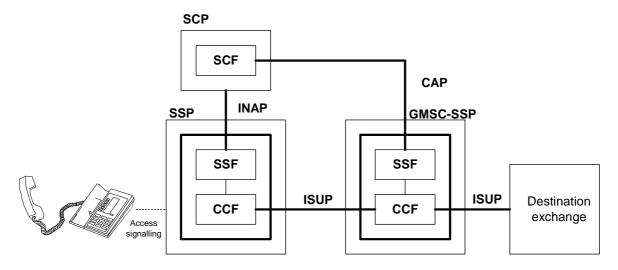
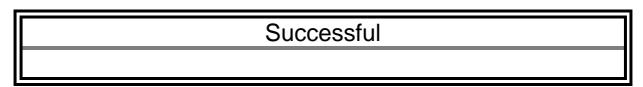


Figure 46: FMC originating case; Signalling configuration for IN call without SRF support

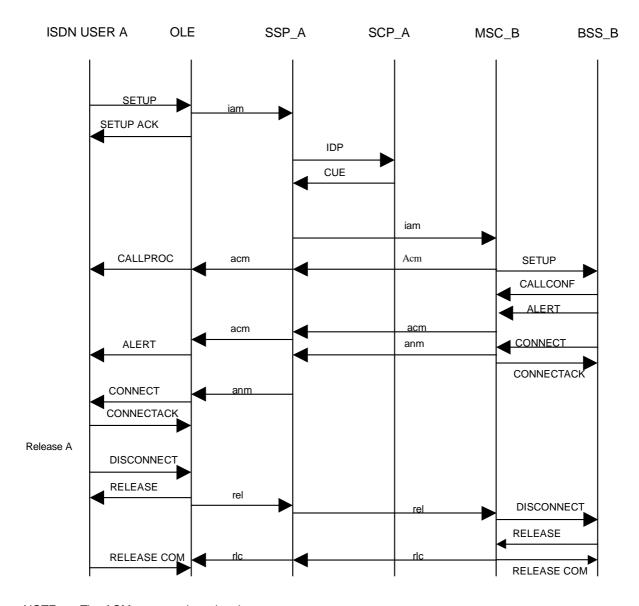
7.2.2 Test purposes for ISDN to GSM, Basic call

7.2.2.1 Successful



	1	
IGxx N_ 01	GSM ref. to:	Other ref.:
	EN 300 940	EN 301 931-2 clause 14.3
	TS 101 285 (GSM 02.78) St 1	Q.1601 clause 10.1.1.1.2
	TS 101 044 (GSM 03.78) St 2	
	TS 101 046 (GSM 09.78) St 3	
TSS reference:	ISDN to GSM/ Number translation	services/Successful
ISDN selection	Numb_Trans	
criteria orign.:		
GSM selection	Numb_Trans	
criteria term.:		
Test purpose:	Verify that the Call is routed to the	Called Party Number with a Continue operation.
	Parameters which were received in	the IAM and are not replaced by parameters of the
	Continue operation are treated acc	ording to the normal procedures.
	Terminating B-Subscriber routed to	ISUP link.
PCO / PO	Initial Detection point	
ISUP/INAP Interface	Verify that the IUT can successfully map the IAM parameter IAM_PAR_ID to the	
parameter	InitialDP parameter InitialIDP_PAR_ID (see annex C).	
Values (note):	Receiving of Continue message	
	On receipt of a Continue operation from the SCP call processing is resumed.	
	The SSP may modify signalling information received from the preceding exchange	
	according to the capabilities used on the outgoing route. Signalling information that may	
	be changed are nature of connection indicator and propagation delay counter. Other	
	signalling information is passed on transparently, e.g. the access transport parameter,	
	user service information, etc. The order of information elements carried in the access	
	transport parameter received from the incoming exchange shall be retained.	
	Sending of backward messages	-
	Verify that the IUT can successfully	map the backward messages ACM, CPG (alerting or
	in-band information, progress), CO	
	Receiving of Release message	
	Verify that the IUT can successfully	release the call like an ordinary transit exchange.

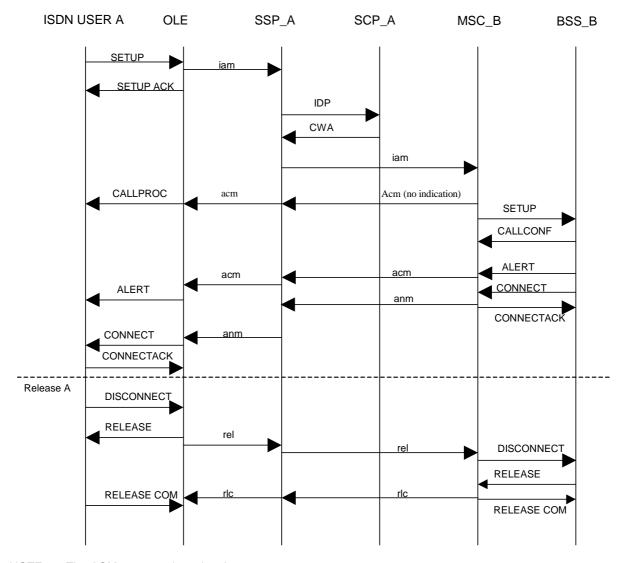
	1	
IGxx N_ 01	GSM ref. to:	Other ref.:
	EN 300 940	EN 301 931-2 clause 14.3
	TS 101 285 (GSM 02.78) St 1	Q.1601 clause 10.1.1.1.2
	TS 101 044 (GSM 03.78) St 2	
	TS 101 046 (GSM 09.78) St 3	
PCO / PO	Initial Detection point	
ISDN/INAP interface	Verify that the IUT can successfully	map the SETUP_PAR_ID parameter to the InitialDP
parameter	parameter InitialIDP_PAR_ID (see	annex C).
Values (note):	Sending of backward messages	,
	Verify that the IUT can successfully	map the backward messages CALL PROCEEDING,
	ALERTING, PROGRESS or CONN	IECT to the originating side.
	Receiving of a Release message	
	Verify that the IUT can successfully	release the call.
ISDN parameter	BC = BC_ID	
values orign.:	synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE	
	LLC = BC_ID	
	synchronous/ asynchronous mo	ode: MODE
	user rate: USER_RATE	
	HLC = HLC_ID	
GSM parameter	GSM-BC = GSM-BC_ID	
values term.:	synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE	
	LLC = synchronous/ asynchronous	mode: MODE
	user rate: USER_RATE	
	HLC = HLC_ID	
Comments:		



NOTE: The ACM message is optional.

Figure 47: Number translation service flow with Continue Message operation

IGxx N02	GSM ref. to:	Other ref.:	
16X N_ 02	EN 300 940	EN 301 931-2 clause 14.3	
	TS 101 285 (GSM 02.78) St 1	Q.1601 clause 10.1.1.1.3	
	TS 101 044 (GSM 03.78) St 2	Q.1001 clause 10.1.1.1.1.5	
	TS 129 078 St 3, Annex A		
TSS reference:	ISDN to GSM/Number translation services/Successful		
ISDN selection	Numb_Trans	services/Successial	
criteria orign.:	INUITID_TTAITS		
GSM selection	Numb_Trans		
criteria term.:	Numb_rrans		
Test purpose:	Verify that the Call is routed to the	Called Party Number with a ContinueWithArgument	
rest purpose.		er received in the ServiceInteractionIndicatorsTwo	
		inueWithArgument operation will be sent in the IAM	
	by the SSP.	andownin agament operation will be contain the intivi	
PCO / PO	Initial Detection point		
ISUP/INAP Interface		map the IAM parameter IAM_PAR_ID to the	
parameter	InitialDP parameter InitialIDP_PAR		
Values (note):	Receiving of Continue message	_15 (666 dimox 6).	
		nent operation from the SCP, call processing is	
		performed as described in 2.1.2.2/Q.764.	
		ID parameters received from the SCP in the	
		vill be mapped in the IAM by the SSP.	
		the IAM and are not replaced by parameters of the	
		are treated according to the normal procedures.	
	Sending of backward messages		
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or		
	in-band information, progress), CON and ANM.		
	Receiving of Release message		
	Verify that the IUT can successfully release the call like an ordinary transit exchange.		
PCO / PO	Initial Detection point		
ISDN/INAP interface	Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP		
parameter	parameter InitialIDP_PAR_ID (see annex C).		
Values (note):	Sending of backward messages		
	Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.		
	Receiving of a Release message		
	Verify that the IUT can successfully	release the call.	
ISDN parameter	BC = BC_ID		
values orign.:	synchronous/ asynchronous mo	ode: MODE	
	user rate: USER_RATE		
	LLC = BC_ID	odo: MODE	
	synchronous/ asynchronous mo	ode. MODE	
	user rate: USER_RATE		
GSM parameter	HLC = HLC_ID GSM-BC = GSM-BC_ID		
GSM parameter values term.:	synchronous/ asynchronous mo	ode: MODE	
values terriff	user rate: USER_RATE	JUG. WIODL	
	LLC = synchronous/ asynchronous	mode: MODE	
	user rate: USER_RATE	mode. MODE	
	HLC = HLC_ID		
Comments:	Interworking only described in Q.1601 for serviceInteractionIndicatorsTwo. Mapping of		
	all other optional parameters are not described (see EN 301 931-2)		
	Tan other optional parameters are no	ot accompca (500 ETT 501 501-2)	

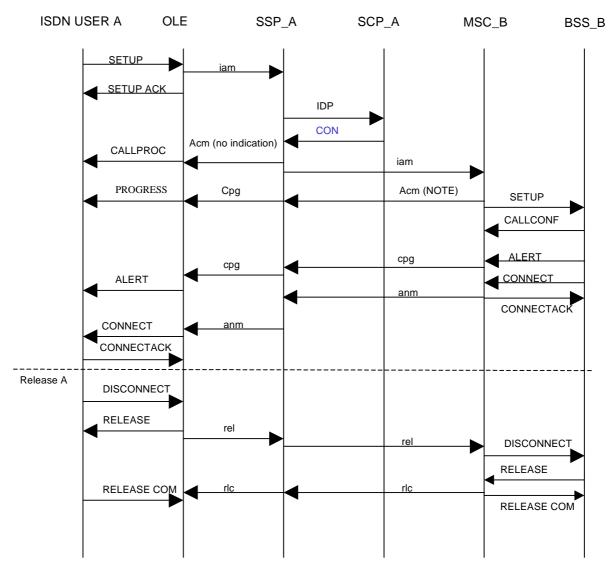


NOTE: The ACM message is optional.

Figure 48: Number translation service flow with a ContinueWithArgument operation

IG xx N 03	GSM ref. to:	Other ref.:
IGxx N_ 03	EN 300 940	Q.1601 clause 10.1.1.1.1
		Q.1001 clause 10.1.1.1.1.1
	TS 101 285 (GSM 02.78) St 1	
	TS 101 044 (GSM 03.78) St 2	
	TS 101 046 (GSM 09.78) St 3	
TSS reference:	ISDN to GSM/ Number translation	services/Successful
ISDN selection	Numb_Trans,	
criteria orign.:		
GSM selection	Numb_Trans,	
criteria term.:		
Test purpose:	To verify that the Call is routed to a	translated Number with the Connect operation.
	For routing of the call the called pa	
	destinationRoutingAddress.	,
PCO / PO	Initial Detection point	
ISUP/INAP Interface		map the IAM parameter IAM_PAR_ID to the
parameter	InitialDP parameter InitialIDP_PAR	
Values (note):	Connect Operation	_ID (see allilex C).
values (note).		map the Connect operation parameter
		AR_ID parameters of the IAM. (See mapping table,
		AK_ID parameters of the IAW. (See mapping table,
	annex C).	the originating upon popular information, and are
		the originating user service information and are
		Connect operation are treated according to the normal
		on applies an ACM message is sent to the preceding
	exchange.	
	The backward call indicators paran	neter in the ACM is encoded as defined in table 5.
	Sending of backward messages	
		map the backward messages ACM, CPG (alerting or
	in-band information, progress), CO	N and ANM.
	Receiving of Release message	
	Verify that the IUT can successfully release the call like an ordinary transit exchange.	
PCO / PO	Initial Detection point	
ISDN/INAP interface	Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP	
parameter	parameter InitialIDP_PAR_ID (see annex C).	
Values (note):	Sending of backward messages	
	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,	
	ALERTING, PROGRESS or CONN	
	Receiving of a Release message	
	Verify that the IUT can successfully	
ISDN parameter	BC = BC ID	
values orign.:	synchronous/ asynchronous mo	ode: MODE
· · · · · · · · · · · · · · · · · · ·	user rate: USER_RATE	, w
	LLC = BC_ID	
	synchronous/ asynchronous mo	ode: MODE
	user rate: USER_RATE	de. Mobe
	HLC = HLC_ID	
GSM parameter		
GSM parameter	GSM-BC = GSM-BC_ID	ada, MODE
values term.:	synchronous/ asynchronous mo	DUE. IVIODE
	user rate: USER_RATE	de. MODE
	LLC = synchronous/ asynchronous	mode: MODE
	user rate: USER_RATE	
_	HLC = HLC_ID	
Comments:		
_		





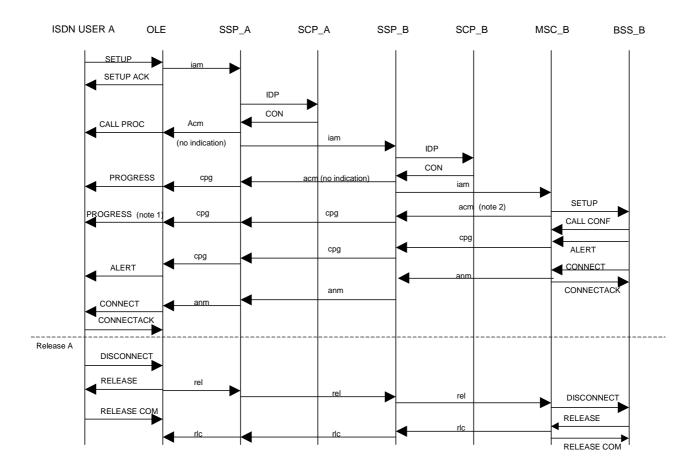
NOTE: The sending of the early ACM message is optional.

Figure 49: Number translation service flow with the Connect operation

Table 5: Backward call indicators parameter in the ACM

Charge indicator:	See clause 10.1.1.1.2 (SendChargingInformation operation)	
Called party's status indicator:	00 (no indication)	
Called party's category:	00 (no indication)	
End-to-end method indicator:	00 (no end-to-end method available)	
Interworking indicator:	0 (no interworking encountered)	
End-to-end information indicator:	0 (no end-to-end information available)	
ISDN User Part indicator:	1 (ISDN User Part used all the way)	
Holding indicator:	National matter	
ISDN access indicator:	1 (terminating access ISDN)	
Echo Control device indicator:	See clause 2.7.1.2.2/Q.764 [82]	
SCCP method indicator:	00 (no indication)	

10 11 01	0014 (Oth	
IGxx N_ 04	GSM ref. to:	Other ref.:	
	EN 300 940	Q.1601 clause 10.1.1.1.2	
	TS 101 285 (GSM 02.78) St 1		
	TS 101 044 (GSM 03.78) St 2		
TSS reference:	TS 101 046 (GSM 09.78) St 3 ISDN to GSM/ Number translation services/Successful		
ISDN selection	Numb_Trans,	SETVICES/ SUCCESSIUI	
criteria orign.:	Numb_trans,		
GSM selection	Numb_Trans,		
criteria term.:	INUITID_TTATIS,		
Test purpose:	Verify that the Call is routed to the	Called Party Number after the second stage Query.	
PCO / PO	Initial Detection point in IUT 1	odiled Falty Number after the second stage Query.	
ISUP/INAP Interface		map the IAM parameter IAM_PAR_ID to the	
parameter	InitialDP parameter InitialIDP_PAR		
Values (note):	Connect Operation in IUT 1	(666 a67.	
() ,	Verify that the IUT can successfully map the Connect operation parameter		
	CONNECT_PAR_ID to the IAM_PA		
		the originating user service information and are not	
		nect operation are treated according to the normal	
	I	on applies an ACM message is sent to the preceding	
	exchange.		
	Initial Detection point in IUT 2	d IAM DAD ID (d	
		map the IAM parameter IAM_PAR_ID to the	
	InitialDP parameter InitialIDP_PAR	_ID (see annex C).	
	Connect Operation in IUT 2 Verify that the IUT can successfully map the Connect operation parameter		
	CONNECT_PAR_ID to the IAM_PAR_ID parameters of the IAM. Parameters which were received in the originating user service information and are not		
		nect operation are treated according to the normal	
		on applies an ACM message is sent to the preceding	
	exchange.		
	Sending of backward messages		
	Verify that the IUT 1 and IUT 2 can successfully map the backward messages ACM,		
	CPG (alerting or in-band information, progress), CON and ANM.		
	Receiving of Release message		
	Verify that the IUT can successfully release the call like an ordinary transit exchange.		
PCO / PO	Initial Detection point		
ISDN/INAP interface	Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP		
parameter	parameter InitialIDP_PAR_ID (see annex C).		
Values (note):	Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING,		
	ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message		
	Verify that the IUT can successfully release the call.		
ISDN parameter	BC = BC_ID	TOTAL OF THE COURT	
values orign.:	Synchronous/ asynchronous mode: MODE		
J	User rate: USER_RATE	-	
	LLC = BC_ID		
	Synchronous/ asynchronous mo	ode: MODE	
	User rate: USER_RATE		
	HLC = HLC_ID		
GSM parameter	GSM-BC = GSM-BC_ID		
values term.:	Synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	LLC = synchronous/ asynchronous	mode: MODE	
	User rate: USER_RATE		
Commonts	HLC = HLC_ID		
Comments:			



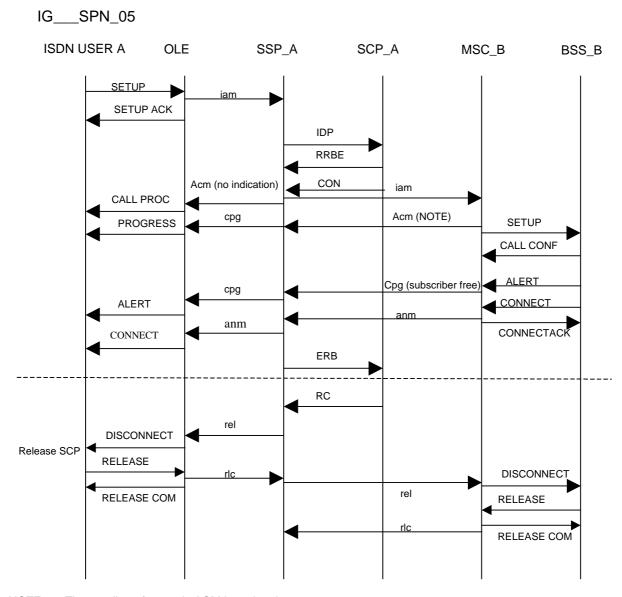
- NOTE 1: According to Q.699 the mapping of the contents in the CPG is only relevant if the information received in the message is different compared to earlier information.
- NOTE 2: The sending of the early ACM message is optional.

Figure 50: Number translation service flow with the Connect operation and the second stage Query

Table 6: Sending and mapping of backward messages

Messages ⇒ Received or messages to be send respectively	Call Proceeding	alerting	Connect
Call Proceeding/ connect not sent	Call Proceeding	Alerting	Connect
Call Proceeding sent, connect not sent	Progress	Alerting	Connect

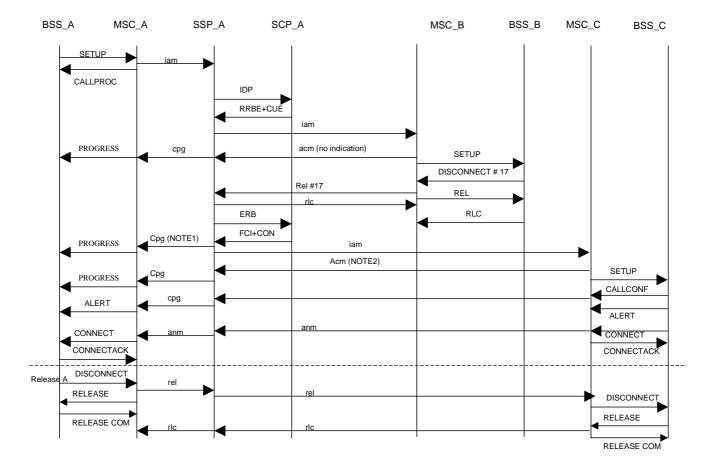
IGxx N05	GSM ref. to: Other ref.:		
10XX 14_ 00	EN 300 940 EN 301 931-2		
	TS 101 285 (GSM 02.78) St 1 GSM Association PRD IR.32 clause 2.2.4		
	TS 101 044 (GSM 03.78) St 2 Q.1601 clause 10.1.1.1.1.1		
	TS 101 046 (GSM 09.78) St 3		
TSS reference:	ISDN to GSM/ Number translation services/Successful		
ISDN selection	Numb_Trans,		
criteria orign.:			
GSM selection	Numb_Trans,		
criteria term.:			
Test purpose:	User A makes a call to user B. After the call establishment and the connection of 10 s		
	with user B, the Call is released from the SCP.		
PCO / PO	Initial Detection point		
ISUP/INAP Interface	No action.		
parameter	Connect Operation		
Values (note):	No action.		
	Sending of backward messages		
	No action.		
	Receiving of Release message		
	Verify that the IUT can successfully map the releaseCall Message and release the call		
	like an ordinary transit exchange.		
PCO / PO	Initial Detection point		
ISDN/INAP interface	Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP		
parameter	parameter InitialIDP_PAR_ID (see annex C).		
Values (note):	Sending of backward messages		
	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,		
	ALERTING, PROGRESS or CONNECT to the originating side.		
	Receiving of a Release message Verify that the ILIT can successfully release the call		
ISDN parameter	Verify that the IUT can successfully release the call. BC = BC ID		
values orign.:	Synchronous/ asynchronous mode: MODE		
varaco origini.	User rate: USER_RATE		
	LLC = BC_ID		
	Synchronous/ asynchronous mode: MODE		
	User rate: USER_RATE		
	HLC = HLC_ID		
GSM parameter	GSM-BC = GSM-BC_ID		
values term.:	Synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	LLC = synchronous/ asynchronous mode: MODE		
	User rate: USER_RATE		
	HLC = HLC_ID		
Comments:	Service logic		
	The SCF alters the destination address. SCF sends RRBE ([O_Answer,notify],		
	[O_Disc,interupted, legID=1], [O_Disc,interupted, legID=2]+CON. After reception of ERB		
	(O_Answer) SCF starts a timer of length 10 s. SCF sends RC after expiration of this		
Abbreviations:	timer. RRBE: Request Report BCSM Event		
ADDIEVIALIONS.	CUE: Continue		
	ERB: Event Report BCSM		
	RC: Release Call		
	IVO. IVEIERSE CAII		



NOTE: The sending of an early ACM is optional.

Figure 51: Number translation service flow, call establishment and release procedure from the SCP

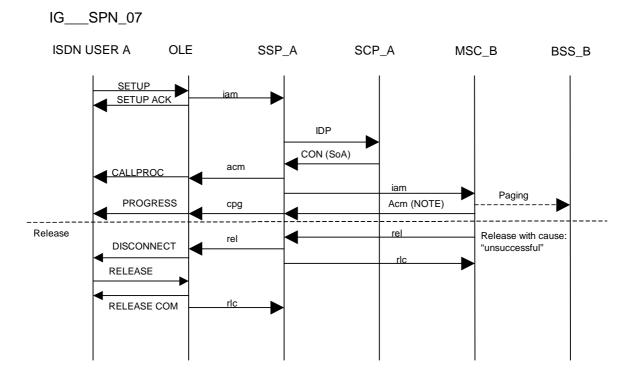
10 N 00	0000 5 (Oth so met	
IGxx N_ 06	GSM ref. to:	Other ref.:	
	EN 300 940	EN 301 931-2	
	TS 101 285 (GSM 02.78) St 1	GSM Association PRD IR.32 clause 2.2.5.2	
	TS 101 044 (GSM 03.78) St 2	Q.1601 clause10.1.1.1.1	
T00 (TS 101 046 (GSM 09.78) St 3		
TSS reference:	ISDN to GSM/ Number translation	services/Successful	
ISDN selection	Numb_Trans,		
criteria orign.:	<u> </u>		
GSM selection	Numb_Trans,		
criteria term.:	11. 0 1 11.		
Test purpose:		ch is "busy". The busy cause is received in the SSF	
D00 / D0	and the Re-connection is triggered	I ON EDP_Busy.	
PCO / PO	Initial Detection point		
ISUP/INAP Interface	No action		
parameter	Continue Operation		
Values (note):	No action		
	Release Operation	ssage is sent to the preceding exchange.	
	Connect Operation	ssage is sent to the preceding exchange.	
		y map the Connect operation parameter	
	CONNECT_PAR_ID to the IAM_P		
		n the originating user service information and are	
	not replaced by parameters of the Connect operation are treated according to the normal call procedures.		
	Sending of backward messages		
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or		
	in-band information, progress), CON and ANM. Receiving of Release message		
	Verify that the IUT can successfully map the Release Call Message and release the call		
	like an ordinary transit exchange.	,p	
PCO / PO	Initial Detection point		
ISDN/INAP interface	Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP		
parameter	parameter InitialIDP_PAR_ID (see annex C).		
Values (note):	Sending of backward messages		
		y map the backward messages CALL PROCEEDING,	
	ALERTING, PROGRESS or CONI		
	Receiving of a Release message		
	Verify that the IUT can successfully release the call.		
ISDN parameter	BC = BC_ID		
values orign.:	synchronous/ asynchronous m	ode: MODE	
	user rate: USER_RATE		
	LLC = BC_ID		
	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	HLC = HLC_ID		
GSM parameter	GSM-BC = GSM-BC_ID		
values term.:	Synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	LLC = synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
Comments:	HLC = HLC_ID		
Comments.	Service logic	droce and conde DDBE CLIE When SCE has	
	The SCF alters the destination address and sends RRBE+CUE. When SCF has received ERB, the SCF alters the destination address and establishes a reconnection.		
<u> </u>			
Abbroviations:	DDRE- Dogwood Donord DCCM	= -	
Abbreviations:		Event	
Abbreviations:	CUE: Continue	Eveni	
Abbreviations:		Eveni	



NOTE 1: The CPG message is optional. NOTE 2: The ACM message is optional.

Figure 52: Number translation service flow, MS B which is located in the VPLMN(b) is "busy"

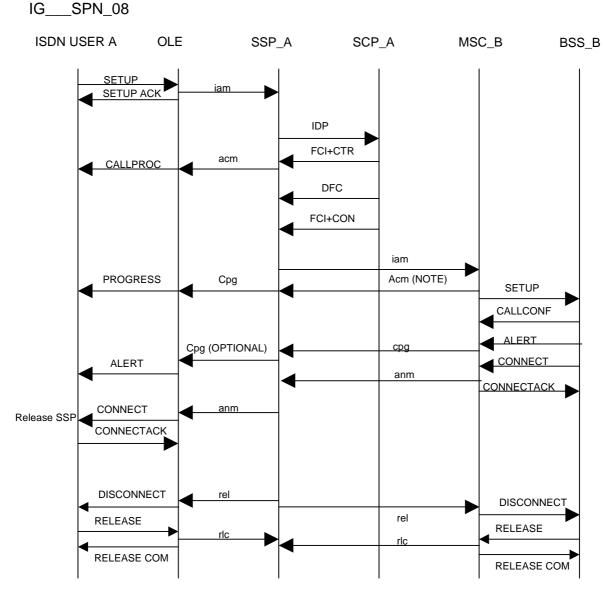
IGxx N07	GSM ref. to:	Other ref.:
IGxx IN_ 07	EN 300 940	Q.1601 clause10.1.1.1.1
	TS 101 285 (GSM 02.78) St 1	Q.1601 dause to.1.1.1.1.1
	TS 101 044 (GSM 03.78) St 2	
TSS reference:	TS 101 046 (GSM 09.78) St 3 ISDN to GSM/ Number translation:	an inca (Curanatul
ISDN selection	I .	services/Successful
	Numb_Trans,	
criteria orign.:	N	
GSM selection	Numb_Trans,	
criteria term.:		
Test purpose:		P instructs in the Connect Operation the SSP to
	suppress announcements. Verify th	ne utilization of the parameter
	SuppressionOfAnnocement.	
PCO / PO	Initial Detection point	
ISUP/INAP Interface	No action	
parameter	Connect Operation	
Values (note):	Verify the utilization of the paramet	er SuppressionOfAnnocement
	Sending of backward messages	
		map the backward messages ACM, CPG (alerting or
	in-band information, progress), CO	N and ANM.
PCO / PO	Initial Detection point	
ISDN/INAP interface	Verify that the IUT can successfully	map the SETUP_PAR_ID parameter to the InitialDP
parameter	parameter InitialIDP_PAR_ID (see	annex C).
Values (note):	Sending of backward messages	·
	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,	
	ALERTING, PROGRESS or CONNECT to the originating side.	
	Receiving of a Release message	
	Verify that the IUT can successfully release the call.	
ISDN parameter	BC = BC_ID	
values orign.:	synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE	
	LLC = BC ID	
	synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE	
	HLC = HLC_ID	
GSM parameter	GSM-BC = GSM-BC ID	
values term.:	synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE	
	LLC = synchronous/ asynchronous	mode: MODE
	user rate: USER_RATE	
	HLC = HLC_ID	
Comments:		
L	1	



NOTE: The sending of the early ACM message is optional.

Figure 53: Number translation service flow, SCP instructs VPLMN to suppress announcements in the CON Message

IC 100 N 00	GSM ref. to:	other ref.:	
IGxx N_ 08			
		1.1601 clause10.1.1.1.1.1	
	TS 101 285 (GSM 02.78) St 1		
	TS 101 044 (GSM 03.78) St 2		
	TS 101 046 (GSM 09.78) St 3		
TSS reference:	ISDN to GSM/ Number translation services/Successful		
ISDN selection	Numb_Trans,		
criteria orign.:			
GSM selection	Numb_Trans,		
criteria term.:			
Test purpose:	User A makes a call to user B. The Announcement is charged with a different value		
1	compared to the established call. Verify the utilization of the parameter Furnish Charging		
	Info.		
PCO / PO	Initial Detection point		
ISUP/INAP Interface	No action		
parameter	Connect Operation		
Values (note):	No action		
values (Hote).	Sending of backward messages		
	No action		
PCO / PO			
ISDN/INAP interface	Initial Detection point		
	No action		
parameter	Sending of backward messages		
Values (note):	No action		
	Receiving of a Release message		
	No action		
ISDN parameter	BC = BC_ID		
values orign.:	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	LLC = BC_ID		
	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	HLC = HLC_ID		
GSM parameter	GSM-BC = GSM-BC_ID		
values term.:	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	LLC = synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	HLC = HLC_ID		
Comments:			
Abbreviations:	AC: ApplyCharging		
	ACR: ApplyChargingReport		
	CIReq: CallInformationRequest		
	CIRep: CallInformationReport		
	CTR: Connect to Resource		
	ERB: Event Report BCSM		
	FCI: Furnish Charging Info		
	SCI: SendChargingInfo RRBE: Request Report BCSM Eve	ant.	
1		2f)f	
	RRBE: Request Report BCSM Ever RC: Release Call		



NOTE: The sending of the ACM message is optional.

Figure 54: Number translation service flow, correct charging with a different value compared to the established call

7.2.2.2 Unsuccessful

Unsuccessful Number translation services

GG SP NU 01	GSM ref. to:	Other ref.:	
	EN 300 940		
	TS 101 285 (GSM 02.78) St 1		
	TS 101 044 (GSM 03.78) St 2		
	TS 101 046 (GSM 09.78) St 3		
TSS reference:	ISDN to GSM/ Number translation s	services/Unsuccessful	
ISDN selection	Numb_Trans,		
criteria orign.:	_ ,		
GSM selection	Numb_Trans,		
criteria term.:	_ ,		
Test purpose:	To verify that the Call is released in	nmediately and that no rerouting activity takes place if	
	the SCP recognizes that a barred n	umber is dialled.	
PCO / PO	Receiving of Release message		
ISUP/INAP Interface	Verify that the IUT can successfully release the call like an ordinary transit exchange.		
parameter			
Values (note):			
PCO / PO	Receiving of a Release message		
ISDN/INAP interface	Verify that the IUT can successfully release the call.		
parameter			
Values (note):			
ISDN parameter	BC = BC_ID		
values orign.:	Synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	LLC = BC_ID		
	Synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	HLC = HLC_ID		
GSM parameter	GSM-BC = GSM-BC_ID		
values term.:	Synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE	I MODE	
	LLC = synchronous/ asynchronous	mode: MODE	
	user rate: USER_RATE		
Commente	HLC = HLC_ID		
Comments:			

IG__SPNU_01

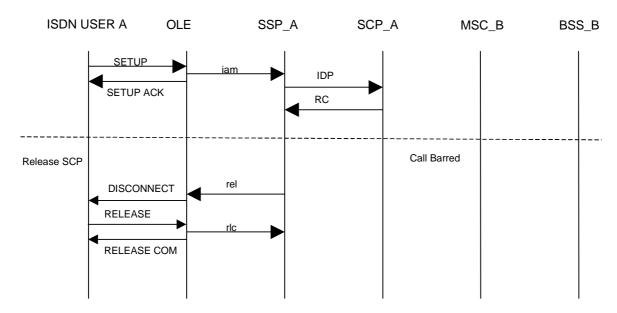


Figure 55: Unsuccessful number translation service flow, SCP recognizes that a barred number is dialled

Values for test purposes IGxx NU 01	
VA_01	BC_ID = speech
	MODE: -
	USER_RATE: -
	LLC_ID = -
	MODE: -
	USER_RATE: -
	HLC_ID = *
VA_02	GSM-BC_ID = speech
	MODE: -
	USER_RATE: -
	LLC_ID = -
	MODE: -
	USER_RATE: -
	HLC_ID = Telephony

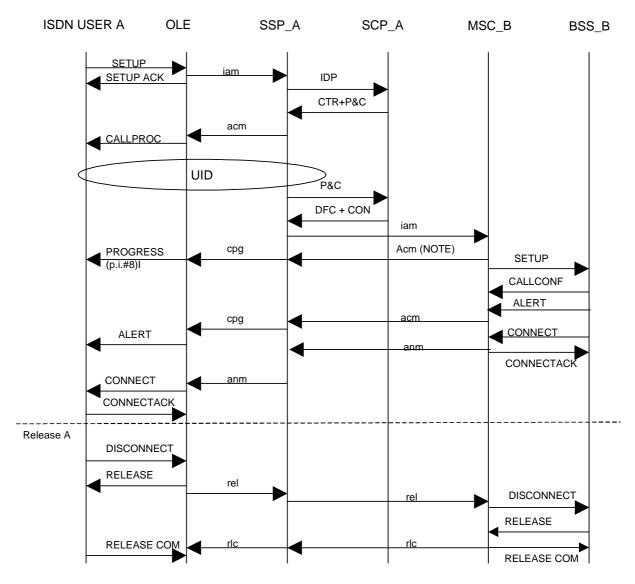
7.2.3 Services with user interactive dialogue

7.2.3.1 Successful

IGxx I_ 01	GSM ref. to: Other ref.:			
	EN 300 940 Q.1601 clause 10.1.5			
	TS 101 285 (GSM 02.78) St 1			
	TS 101 044 (GSM 03.78) St 2			
	TS 101 046 (GSM 09.78) St 3			
TSS reference:	ISDN to GSM/ Services with user interactive dialogue/Successful			
ISDN selection	Numb_Trans, IN call with user interactive dialogue (in-band) SSP supports requested IP			
criteria orign.:	capabilities, OLE supports UID capabilities			
GSM selection	Services with user interactive dialogue			
criteria term.:				
Test purpose:	User A makes a call to user B. The UID (user interactive dialogue)is performed at the			
	forwarding SC. After the UID the user is connected to the called party. The OLE			
	supports UID capabilities.			
PCO / PO	Initial Detection point			
ISUP/INAP Interface	Verify that the IUT can successfully map the IAM parameter IAM_PAR_ID to the			
parameter	InitialDP parameter InitialIDP_PAR_ID (see annex C).			
Values (note):	ConnectToResource			
	Verify that the IUT (SSP) is sending a ACM message with the Optional Backward Call			
	Indicators indicating "in-band information or an appropriate pattern is now available			
	(p.i.#8) to the preceding exchange after receiving the ConnectToResource message			
	(from the SCP). Depending on the contents of the INAP serviceInteractionIndicatorsTwo and capabilities			
	of the preceding exchanges, the UID action indicators parameter may be included in the			
	ACM:			
	a) Through-connection instruction			
	If the both way through-connect indicator in the serviceInteractionIndicatorsTwo			
	parameter of the ConnectToResource operation was set to "required" and if an UID			
	capability indicators parameter was received with bit A coded 1 (through-connection			
	modification possible) in the IAM, then the UID action indicators parameter shall be			
	included into the ACM message with bit A coded (through-connect in both			
	directions).			
	b) T9 timer instruction			
	If the dialogue duration indicator in the serviceInteractionIndicatorsTwo parameter			
	of the ConnectToResource operation was set to "long duration" and if an UID			
	capability indicators parameter was received with bit B coded 1 (stopping of timer			
	possible) in the IAM, then an UID action indicators parameter shall be included into			
	the ACM with bit B coded 1 (stop or do not start T9).			
	If backward messages have already been sent to preceding exchange, then instead of			
	ACM a CPG message is sent. The CPG message shall contain the UID action			
	indicators parameter as described above for the ACM message. Disconnect Forward Connection (DFC)			
	Verify that the IUT can successfully release the "through –connect in-band info" after			
	receiving the Disconnect Forward Connection (DFC) message.			
	Connect Operation			
	Initial address information is retained in memory to allow a call setup to a new			
	destination after disconnecting the IP.			
	Verify that the IUT can successfully map the Connect operation parameter			
	CONNECT_PAR_ID to the IAM_PAR_ID parameters of the IAM.			
	Parameters which were received in the originating user service information and are			
	not replaced by parameters of the Connect operation are treated according to the normal			
	call procedures.			
	Sending of backward messages			
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or			
	in-band information, progress), CON and ANM.			
	Receiving of Release message			
	Verify that the IUT can successfully release the call like an ordinary transit exchange.			

IGxx I_ 01	GSM ref. to:	Other ref.:
	EN 300 940	Q.1601 clause 10.1.5
	TS 101 285 (GSM 02.78) St 1	
	TS 101 044 (GSM 03.78) St 2	
	TS 101 046 (GSM 09.78) St 3	
PCO / PO	Initial Detection point	
ISDN/INAP interface	Verify that the IUT can successfully	map the SETUP_PAR_ID parameter to the InitialDP
parameter	parameter InitialIDP_PAR_ID (see	annex C).
Values (note):	Sending of backward messages	,
	Verify that the IUT can successfully	map the backward messages CALL PROCEEDING,
	ALERTING, PROGRESS or CONN	IECT to the originating side.
	Receiving of a Release message	
	Verify that the IUT can successfully	release the call.
ISDN parameter	$BC = BC_ID$	
values orign.:	Synchronous/ asynchronous me	ode: MODE
	User rate: USER_RATE	
	LLC = BC_ID	
	Synchronous/ asynchronous me	ode: MODE
	User rate: USER_RATE	
	HLC = HLC_ID	
GSM parameter	GSM-BC = GSM-BC_ID	
values term.:	Synchronous/ asynchronous me	ode: MODE
	user rate: USER_RATE	
	LLC = synchronous/ asynchronous	mode: MODE
	User rate: USER_RATE	
	HLC = HLC_ID	
Comments:		



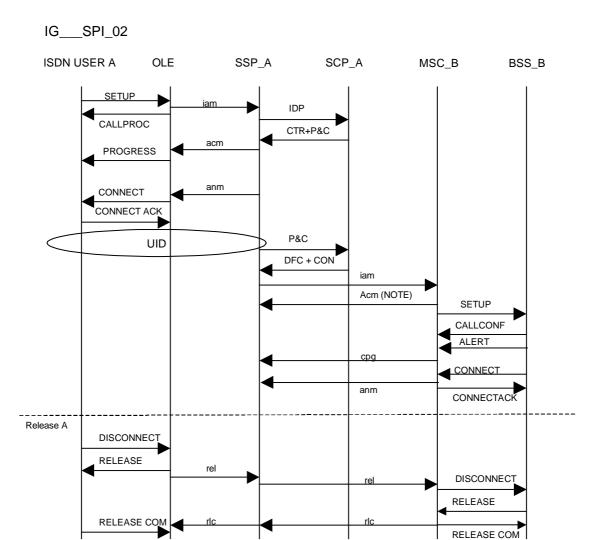


NOTE: The sending of the early ACM message is optional.

Figure 56: User interactive dialogue service, IN call with user interactive dialogue (in-band) SSP supports requested IP capabilities, OLE supports UID capabilities

10 1 00	0014 (Other met				
IGxx I_ 02	GSM ref. to: EN 300 940	Other ref.: Q.1601 clause 10.1.5				
	TS 101 285 (GSM 02.78) St 1	Q.1601 clause 10.1.5				
	TS 101 263 (GSM 02.76) St 1					
	TS 101 044 (GSM 03.76) St 2					
TSS reference:	ISDN to GSM/ Services with user interactive dialogue /Successful					
ISDN selection	Numb_Trans, IN call with user interactive dialogue (in-band) SSP supports requested IP					
criteria orign.:	capabilities, OLE does not support					
GSM selection	Services with user interactive dialog					
criteria term.:	Corvious with ager interactive dialog	940				
Test purpose:	User A makes a call to user B. The	UID (user interactive dialogue)is performed at the				
	forwarding SC. After the UID the user is connected to the called party. The OLE does					
	not support UID capabilities					
PCO / PO	Initial Detection point					
ISUP/INAP Interface	Verify that the IUT can successfully	map the IAM parameter IAM_PAR_ID to the				
parameter	InitialDP parameter InitialIDP_PAR	_ID (see annex C).				
Values (note):	ConnectToResource					
		g a ACM message with the Optional Backward Call				
		mation or an appropriate pattern is now available				
	(p.i.#8) or no indication.					
	Answer Message	of an ANIM management demands on the fall surface				
	conditions:	of an ANM message depends on the following				
		indicator in the serviceInteractionIndicatorsTwo				
		source operation was set to "required" and if a				
		dicator set to "through-connection modification				
		e IAM, then an ANM message is sent.				
		in the serviceInteractionIndicatorsTwo parameter of				
		on was set to "long duration" and if a T9 timer				
		r possible" was not received in the IAM, then an ANM				
	message is sent.					
		y been sent to the preceding exchange, then instead				
	of ANM a different message may be					
		essage may also be required, if a chargeable				
		However, charging aspects are outside the scope of				
	this ITU-T Recommendation.	TC)				
	Disconnect Forward Connection (D					
	receiving the Disconnect Forward (release the "through –connect in-band info" after				
	Connect Operation	Donnection (Dr G) message.				
		ed in memory to allow a call setup to a new				
	destination after disconnecting the					
		map the Connect operation parameter				
	CONNECT_PAR_ID to the IAM_PA					
		the originating user service information and are				
	, , ,	Connect operation are treated according to the normal				
	call procedures.					
	Sending of backward messages					
		map the backward messages ACM, CPG (alerting or				
	in-band information, progress), CO	N and ANM.				
	Receiving of Release message	release the call like an ordinary transit evahance				
PCO / PO	Initial Detection point	release the call like an ordinary transit exchange.				
ISDN/INAP interface		man the SETUP PAR ID parameter to the InitialDP				
parameter	Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP parameter InitialIDP_PAR_ID (see annex C).					
Values (note):	Sending of backward messages	- /-				
' '		map the backward messages CALL PROCEEDING,				
	ALERTING, PROGRESS or CONNECT to the originating side.					
	Receiving of a Release message					
	Verify that the IUT can successfully release the call.					
ISDN parameter	BC = BC_ID					
values orign.:	synchronous/ asynchronous mode: MODE					
	user rate: USER_RATE					
	LLC = BC_ID					
	synchronous/ asynchronous mode: MODE					
	user rate: USER_RATE					
	HLC = HLC_ID					

GSM ref. to:	Other ref.:			
EN 300 940	Q.1601 clause 10.1.5			
TS 101 285 (GSM 02.78) St 1				
TS 101 044 (GSM 03.78) St 2				
TS 101 046 (GSM 09.78) St 3				
GSM-BC = GSM-BC_ID	GSM-BC = GSM-BC ID			
synchronous/ asynchronous r	synchronous/ asynchronous mode: MODE			
user rate: USER_RATE				
LLC = synchronous/ asynchronous mode: MODE				
user rate: USER_RATE				
HLC = HLC_ID				
	TS 101 285 (GSM 02.78) St 1 TS 101 044 (GSM 03.78) St 2 TS 101 046 (GSM 09.78) St 3 GSM-BC = GSM-BC_ID synchronous/ asynchronous n user rate: USER_RATE LLC = synchronous/ asynchronou user rate: USER_RATE	TS 101 285 (GSM 02.78) St 1 TS 101 044 (GSM 03.78) St 2 TS 101 046 (GSM 09.78) St 3 GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = synchronous/ asynchronous mode: MODE user rate: USER_RATE		



NOTE: The sending of the ACM message is optional.

Figure 57: User interactive dialogue service, IN call with user interactive dialogue (in-band) SSP supports requested IP capabilities, OLE does not support UID capabilities

10 1 00	0014 1	Other and			
IGxx I_ 03	GSM ref. to:	Other ref.:			
	EN 300 940 TS 101 285 (GSM 02.78) St 1	Q.1601; clauses 10.1.1.1.1 and 10.1.5.2.1.1.1			
	TS 101 283 (GSM 02.78) St 1				
	TS 101 044 (GSM 03.76) St 2				
TSS reference:	ISDN to GSM/ Services with user interactive dialogue/Successful				
ISDN selection	Numb_Trans, IN call with user interactive dialogue (in-band) Assist method; procedure in				
criteria orign.:	initiating SSP	ractive dialogue (iii baria) / 133131 metrioa, procedure iii			
GSM selection	Services with user interactive dialo	ane			
criteria term.:		940			
Test purpose:	User A makes a call to user B. On	receipt of the EstablishTemporaryConnection			
1 .		on to an external IP will be established.			
	After the UID the user is connected	to the called party.			
PCO / PO	Initial Detection point				
ISUP/INAP Interface		map the IAM parameter IAM_PAR_ID to the			
parameter	InitialDP parameter InitialIDP_PAR				
Values (note):	Establish Temporary Connection				
		aryConnection operation from the SCP a connection			
		d, if the TMR value received in the IAM message is set			
		o" or "64 kbit/s unrestricted preferred".			
		temporary connection is newly generated as in an			
	originating local exchange. For routing of the call the called pa	rty number is derived from the			
	assistingSSPIPRoutingAddress.	ity number is derived from the			
		sfully map the parameters received in the			
		n operation to parameters sent in the IAM message in			
	table 7.	r operaner to parameter occur in the in in meseage in			
	Except the called party number par	rameter the remaining mandatory parameters of the			
	IAM message are set as defined in	Table 7.			
		map the Disconnect Forward Connection (DFC)			
	message to a RELEASE message				
		essage is sent to the preceding exchange encoded as			
	described in Q.1601 clause 10.1.1.				
	Connect Operation	ad in maman, to allow a call actua to a naw			
	destination after disconnecting the	ed in memory to allow a call setup to a new			
		map the Connect operation parameter			
	CONNECT_PAR_ID to the IAM_PA				
		the originating user service information and are			
		Connect operation are treated according to the normal			
	call procedures.	,			
		direction contains cause value #31.			
	Sending of backward messages				
		map the backward messages ACM, CPG (alerting or			
	in-band information, progress), CO	N and ANM.			
	Receiving of Release message	release the call like an ordinary transit exchange.			
PCO / PO	Initial Detection point	r release the can like an ordinary transit exchange.			
ISDN/INAP interface		map the SETUP_PAR_ID parameter to the InitialDP			
parameter					
Values (note):	parameter InitialIDP_PAR_ID (see annex C). Sending of backward messages				
, ,		map the backward messages CALL PROCEEDING,			
	ALERTING, PROGRESS or CONN	NECT to the originating side.			
	Receiving of a Release message				
	Verify that the IUT can successfully release the call.				
GSM parameter	GSM-BC GSM-BC_ID				
values orign.:	synchronous/ asynchronous mode: MODE				
	user rate: USER_RATE				
	LLC = BC_ID				
	synchronous/ asynchronous mode: MODE				
	user rate: USER_RATE				
	HLC = HLC_ID				

IGxx I_ 03	GSM ref. to:	Other ref.:			
	EN 300 940	Q.1601; clauses 10.1.1.1.1 and 10.1.5.2.1.1.1			
	TS 101 285 (GSM 02.78) St 1				
	TS 101 044 (GSM 03.78) St 2				
	TS 101 046 (GSM 09.78) St 3				
GSM parameter	GSM-BC = GSM-BC_ID				
values term.:	Synchronous/ asynchronous mode: MODE				
	user rate: USER_RATE				
	LLC = synchronous/ asynchronous mode: MODE				
	user rate: USER_RATE				
	HLC = HLC_ID				
Comments:					

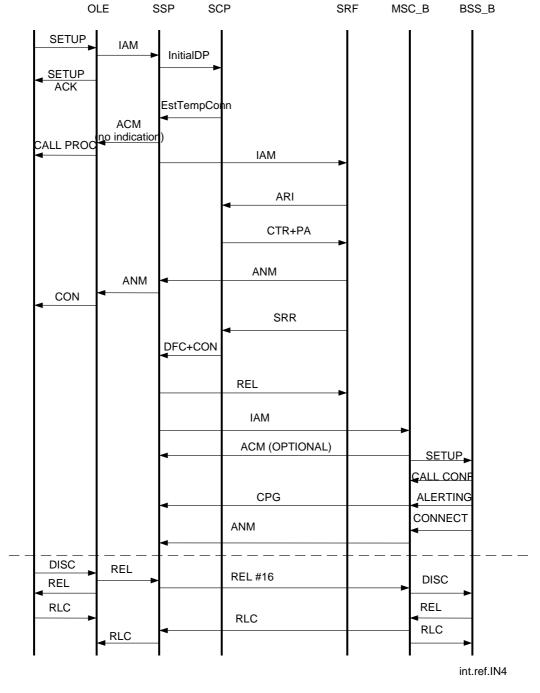


Figure 58: User interactive dialogue service, IN call with user interactive dialogue (in-band)
Assist method; procedure in initiating SSP. On receipt of the EstablishTemporaryConnection
operation from the SCP a connection to an external IP will be established

Table 7: Mapping of parameters from EstablishTemporaryConnection to IAM

INAP operation EstablishTemporaryConnection (Note)	ISUP message IAM	
AssistingSSPIPRoutingAddress	Called party number	
ServiceInteractionIndicatorsTwo	See clause 10.1.1.1.1.4 (Mapping of the INAP serviceInteractionIndicatorsTwo)	
CorrelationID	Correlation id	
ScfID	SCF id	
NOTE: Optional parameters may be absent, i.e. they are only mapped, if received.		

Table 8: Mandatory parameters of the IAM message

a) Nature of connection indicators:			
Satellite indicator:	set as in an OLE		
Continuity check indicator:	set as in an OLE		
Echo control device indicator:	set as in an OLE		
b) Forward call indicators:			
National/international call indicator:	set as in an OLE		
End-to-end method indicator:	00 (no end-to-end method available)		
Interworking indicator:	0 (no interworking encountered)		
End-to-end information indicator:	0 (no end-to-end information available)		
ISDN user part indicator:	1 (ISDN user part used all the way)		
ISDN user part preference indicator:	10 (ISDN user part required all the way)		
ISDN access indicator:	0 (originating access non-ISDN)		
SCCP method indicator:	00 (no indication)		
c) Calling party's category:			
00001010 (ordinary subscriber).			
d) Transmission medium requirement:			
00000011 (3,1 kHz audio).			

10 1 04	0014 (0(h f -			
IGxx I_ 04	GSM ref. to:	Other ref.:			
	EN 300 940	Q.1601 clause 10.1.5			
	TS 101 285 (GSM 02.78) St 1				
	TS 101 044 (GSM 03.78) St 2				
	TS 101 046 (GSM 09.78) St 3				
TSS reference:	ISDN to GSM/ Services with user in				
ISDN selection		ractive dialogue (in-band) Assist method; procedure in			
criteria orign.:	assisting SSP				
GSM selection	Services with user interactive dialog	gue			
criteria term.:					
Test purpose:		call will be routed to an IP, an AssistReqInstructions			
	operation is sent from the SSF to the	ne SCF.			
	After the UID the call is released from	om the SCP.			
PCO / PO	AssistRequestInstructions opera	ation			
ISUP/INAP Interface	If an IAM is received in a SSP and	the call is recognized as a call which is to be routed to			
parameter		eration is sent from the SSF to the SCF. The mapping			
Values (note):	of parameters is shown in table 8.				
, ,	ConnectToResource operation				
		of an ANM message depends on the following			
	conditions:	3 1			
	a) If the both way through-connect	indicator in the serviceInteractionIndicatorsTwo			
		source operation was set to "required" and if a			
		dicator set to "through-connection modification			
		e IAM, then an ANM message is sent.			
		r in the serviceInteractionIndicatorsTwo parameter of			
		ion was set to "long duration" and if a T9 timer			
		er possible" was not received in the IAM, then an ANM			
	message is sent.	r possible was not received in the 17 tivi, then all 7 tivi			
		y heen sent to the preceding exchange, then instead			
	If backward messages have already been sent to the preceding exchange, then instead of ANM a different message may be sent.				
		message may also be required, if a chargeable			
	announcement is to be connected.				
	Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.				
PCO / PO	Initial Detection point	release the call like all ordinary transit exchange.			
ISDN/INAP interface		man the SETUR RAP ID parameter to the InitialDR			
parameter		map the SETUP_PAR_ID parameter to the InitialDP			
•	parameter InitialIDP_PAR_ID (see annex C).				
Values (note):	Sending of backward messages	come the best word messages CALL DROCEEDING			
		map the backward messages CALL PROCEEDING,			
	ALERTING, PROGRESS or CONN				
	Receiving of a Release message				
10001	Verify that the IUT can successfully	/ release the call.			
ISDN parameter	BC = BC_ID				
values orign.:	Synchronous/ asynchronous mo	ode: MODE			
	user rate: USER_RATE				
	LLC = BC_ID				
	Synchronous/ asynchronous mode: MODE				
	user rate: USER_RATE				
	HLC = HLC_ID				
GSM parameter	GSM-BC = GSM-BC_ID				
values term.:	synchronous/ asynchronous mode: MODE				
	user rate: USER_RATE				
	LLC = synchronous/ asynchronous mode: MODE				
	user rate: USER_RATE				
	HLC = HLC_ID				
Comments:	<u> </u>				
L	_L				

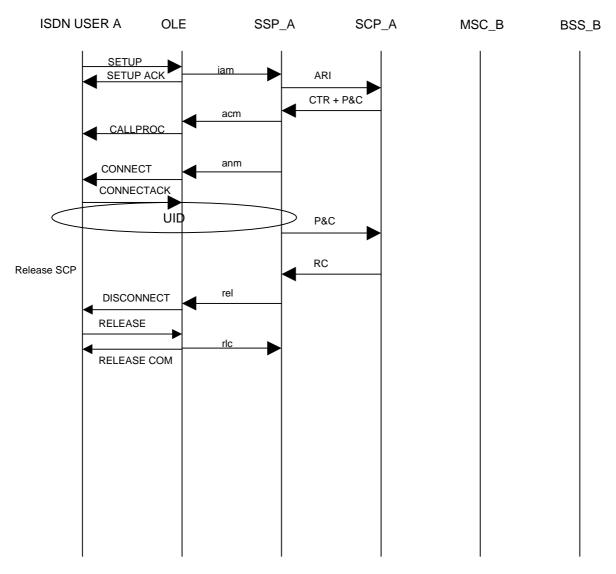


Figure 59: User interactive dialogue service, IN call with user interactive dialogue (in-band)
Assist method; procedure in initiating SSP; an AssistReqInstructions operation
is sent from the SSF to the SCF

Table 9: Mapping of parameters from IAM to AssistRequestInstruction

ISUP message IAM	INAP operation AssistRequestInstruction
Correlation id	CorrelationID

Values for test purposes IGxx I_ 01 to IGxx I_ 04			
VA_01	BC_ID = speech		
	MODE: -		
	USER_RATE: -		
	LLC_ID = -		
	MODE: -		
	USER_RATE: -		
	HLC_ID = *		
VA_02	GSM-BC_ID = speech		
	MODE: -		
	USER_RATE: -		
	LLC_ID = -		
	MODE: -		
	USER_RATE: -		
	HLC_ID = Telephony		

Table 10: Sending of backward messages - ISUP

Message received or message to be sent, → respectively ↓ Messages already sent	ACM	CPG "alerting" or "in-band information or an"	CPG "progress"	CON	ANM
ACM/CON not sent	ACM (note 1)	Not relevant	Not relevant	CON (note 1)	Not relevant
ACM sent, ANM not sent	CPG (Note 1)	CPG	CPG	ANM (note 1)	ANM
ANM/CON sent for previous connection, but ANM/CON not received for actual connection	CPG "progress" (notes 1 and 2)	CPG "progress" (note 2)	CPG "progress"	CPG "progress" (notes 1 and 2)	CPG "progress" (note 2)
ANM/CON sent for previous connection and ANM/CON received for actual connection	Not relevant	Not relevant	CPG "progress"	Not relevant	Not relevant

NOTE 1: If a serviceInteractionIndicatorsTwo parameter was provided in the INAP operation, this message carries the corresponding ISUP parameters, if applicable.

NOTE 2: An originating local exchange will discard this CPG message since no generic notification parameter is

contained in the message.

7.2.3.2 Unsuccessful

Unsuccessful Services with user interactive dialogue

IG xx IU 01	GSM ref. to:	Other ref.:
	EN 300 940	Q.1601 clause 10.1.5.1.1.1.1
	TS 101 285 (GSM 02.78) St 1	
	TS 101 044 (GSM 03.78) St 2	
	TS 101 046 (GSM 09.78) St 3	
TSS reference:	ISDN to GSM/ Number translation	services/Unsuccessful
ISDN selection	Numb_Trans,	
criteria orign.:		
GSM selection	Numb_Trans,	
criteria term.:		
Test purpose:		ctToResource operation the call is released using the
		es received in the IAM message, than "speech" or
	"3,1 kHz audio" or "64 kbit/s unrest	ricted preferred" are received.
PCO / PO	Initial Detection point	
ISUP/INAP Interface		map the IAM parameter IAM_PAR_ID to the
parameter	InitialDP parameter InitialIDP_PAR	_ID (see annex C).
Values (note):	Receiving of Release message	
		release the call like an ordinary transit exchange.
PCO / PO	Initial Detection point	
ISDN/INAP interface	Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP	
parameter	parameter InitialIDP_PAR_ID (see annex C).	
Values (note):	Receiving of a Release message	
	Verify that the IUT can successfully release the call.	
ISDN parameter	BC = BC_ID	
values orign.:	synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE	
	LLC = BC_ID	
	synchronous/ asynchronous mo	ode: MODE
	user rate: USER_RATE	
	HLC = HLC_ID	
GSM parameter	GSM-BC = GSM-BC_ID	
values term.:	synchronous/ asynchronous mo	ode: MODE
	user rate: USER_RATE	made MODE
	LLC = synchronous/ asynchronous	mode: MODE
	user rate: USER_RATE	
Commenter	HLC = HLC_ID	
Comments:		
	1	

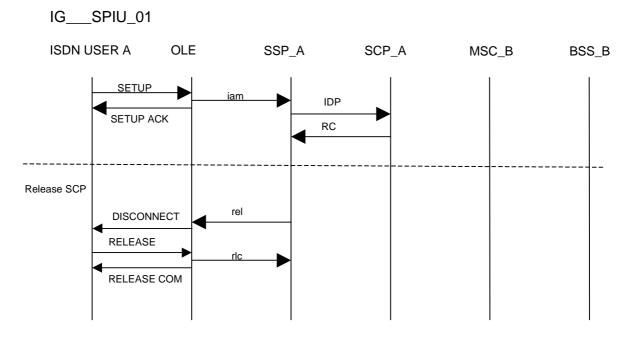


Figure 60: Unsuccessful user interactive dialogue service, call is released using the cause value #65 if other TMR values received in the IAM message than "speech" or "3,1 kHz audio" or "64 kbit/s unrestricted preferred" are received

7.2.4 Supplementary Services

10 NO OLID 04	CCM and to:	Oth an act i
IGxx NS CLIP 01	GSM ref. to:	Other ref.:
	EN 300 940	Q.1601 clause 12
	TS 101 285 (GSM 02.78) St 1	
	TS 101 044 (GSM 03.78) St 2	
	TS 101 046 (GSM 09.78) St 3	
TSS reference:		services/Supplementary Services/CLIP
ISDN selection criteria	Numb_Trans,	
orign.:		
GSM selection criteria	Numb_Trans,	
term.:	_ ,	
Test purpose:	Ensure that the Calling party numb	er and the Generic Number provided by the OLE, are
l cot pai poco.		rved) user if no callingPartyNumber or
	genericNumber has been received	
PCO / PO	Initial Detection point	in the Connect operation.
ISUP/INAP Interface		map the IAM IE Calling party number and Generic
parameter	<u> </u>	callingPartyNumber and genericNumber.
Values (note):	No action	
	Connect Operation / Continue op	
		Number has been received in the Connect operation
	Sending of backward messages	
	Verify that the IUT can successfully	map the backward messages ACM, CPG (alerting or
	in-band information, progress), CO	N and ANM.
	Receiving of Release message	
		release the call like an ordinary transit exchange.
PCO / PO	Initial Detection point	
ISDN/INAP interface	No action	
parameter	Sending of backward messages	
Values (note):	Verify that the IUT can successfully	map the backward messages CALL PROCEEDING,
	ALERTING, PROGRESS or CONNECT to the originating side.	
	Receiving of a Release message	
	Verify that the IUT can successfully release the call.	
ISDN parameter values	BC = BC_ID	
orign.:	synchronous/ asynchronous mode: MODE	
J	user rate: USER_RATE	
	LLC = BC_ID	
	synchronous/ asynchronous mo	ode: MODE
	user rate: USER_RATE	340. WODE
	HLC = HLC_ID	
GSM parameter values	GSM-BC = GSM-BC ID	
term.:	synchronous/ asynchronous mo	ode: MODE
lei III	user rate: USER_RATE	JUG. MIODE
		mode: MODE
	LLC = synchronous/ asynchronous	THOUGE. MIODE
	user rate: USER_RATE	
	HLC = HLC_ID	
Comments:		

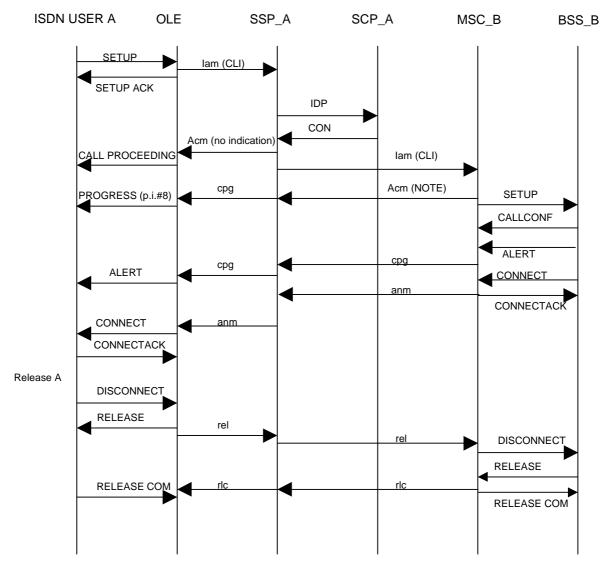


Figure 61: Number translation services; Supplementary Services; CLIP

IGxx NS CLIP 02	GSM ref. to:	Other ref.:
	EN 300 940	EN 301 931-2 clause 12.137 (IN CS 3)
	TS 101 285 (GSM 02.78) St 1	Q.1601 clause 12
	TS 101 044 (GSM 03.78) St 2	
	TS 101 046 (GSM 09.78) St 3	
	TS 129 078 clause A.3	
TSS reference:		services/Supplementary Services/CLIP
ISDN selection criteria	Numb_Trans,	
orign.:		
GSM selection criteria	Numb_Trans,	
term.:		
Test purpose:		ally map calling party restriction indicator 'no IN impact'
		ctionIndicatorsTwo (ForwardServiceInteractionInd/
		to the then calling party number address
	presentation restricted indicator "pr	
		by the OLE is correctly delivered to the called
	(served) user.	
PCO / PO	Initial Detection point	
ISUP/INAP Interface	No action	
parameter	Connect Operation / Continue op	
Values (note):		map calling party restriction indicator 'no IN impact'
		ctionIndicatorsTwo, to the then calling party number
		icator "presentation allowed" parameter.
	Sending of backward messages	
		y map the backward messages ACM, CPG (alerting or
	in-band information, progress), CON and ANM.	
	Receiving of Release message	
	Verify that the IUT can successfully release the call like an ordinary transit exchange.	
PCO / PO	Initial Detection point	
ISDN/INAP interface	No action	
parameter	Sending of backward messages Verify that the ULT can successfully man the backward messages CALL PROCEEDING	
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,	
	ALERTING, PROGRESS or CONNECT to the originating side.	
	Receiving of a Release message	
1001	Verify that the IUT can successfully release the call.	
ISDN parameter values	BC = BC_ID	
orign.:	synchronous/ asynchronous mo	ode: MODE
	user rate: USER_RATE	
	LLC = BC_ID	
	synchronous/ asynchronous mo	ode: MODE
	user rate: USER_RATE	
	HLC = HLC_ID	
GSM parameter values	GSM-BC = GSM-BC_ID	MODE
term.:	synchronous/ asynchronous mode	MODE
	user rate: USER_RATE	made: MODE
	LLC = synchronous/ asynchronous	mode: MODE
	user rate: USER_RATE	
Commenter	HLC = HLC_ID	
Comments:		
	1	

IG___SPNS_CLIP_02

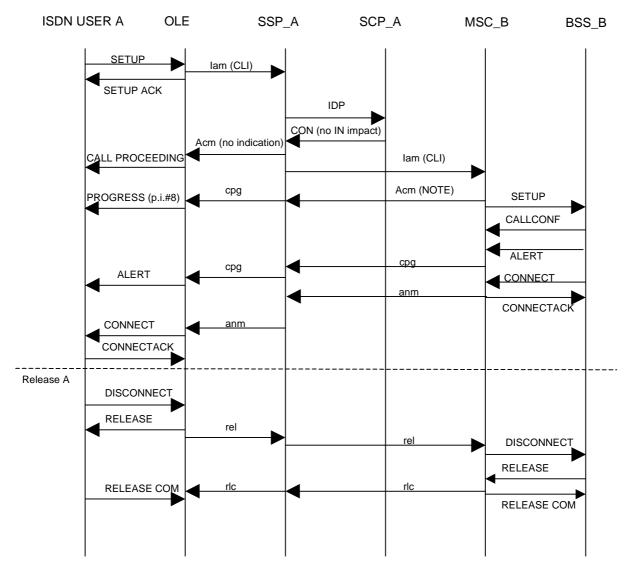


Figure 62: Number translation services; Supplementary Service CLIP, "no IN impact" parameter was received in the INAP serviceInteractionIndicatorsTwo

IG xx NS CLIR 01	GSM ref. to:	Other ref.:
IGXX NS CLIR UT	EN 300 940	
		Q.1601 clause 12
	TS 101 285 (GSM 02.78) St 1	
	TS 101 044 (GSM 03.78) St 2	
T00 (TS 101 046 (GSM 09.78) St 3	. (0.1.5
TSS reference:		services/Supplementary Services/CLIR
ISDN selection criteria	Numb_Trans,	
orign.:		
GSM selection criteria	Numb_Trans,	
term.:		
Test purpose:		number and the Generic Number with the calling
		tion restricted" are provided by the OLE,
		on element is delivered to the called user without any
		Number or genericNumber has been received in the
	Connect operation.	
PCO / PO	Initial Detection point	
ISUP/INAP Interface	No action	
parameter	Connect Operation / Continue or	
Values (note):	Verify that the IUT can successfully	y map calling party restriction indicator "presentation
		nteractionIndicatorsTwo, to the then calling party
	number address presentation restr	icted indicator 'presentation restricted' parameter.
	Sending of backward messages	
	Verify that the IUT can successfully	y map the backward messages ACM, CPG (alerting or
	in-band information, progress), CO	N and ANM.
	Receiving of Release message	
	Verify that the IUT can successfully release the call like an ordinary transit exchange.	
PCO / PO	Initial Detection point	
ISDN/INAP interface	No action	
parameter	Sending of backward messages	
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,	
, ,	ALERTING, PROGRESS or CONNECT to the originating side.	
	Receiving of a Release message	
	Verify that the IUT can successfully	y release the call.
ISDN parameter values	BC = BC ID	
orign.:	synchronous/ asynchronous mo	ode: MODE
	user rate: USER_RATE	
	LLC = BC ID	
	synchronous/ asynchronous mo	ode: MODE
	user rate: USER_RATE	
	HLC = HLC ID	
GSM parameter values	GSM-BC = GSM-BC_ID	
term.:	synchronous/ asynchronous mo	ode: MODE
	user rate: USER_RATE	-
	LLC = synchronous/ asynchronous	s mode: MODE
	user rate: USER_RATE	
	HLC = HLC_ID	
Comments:		

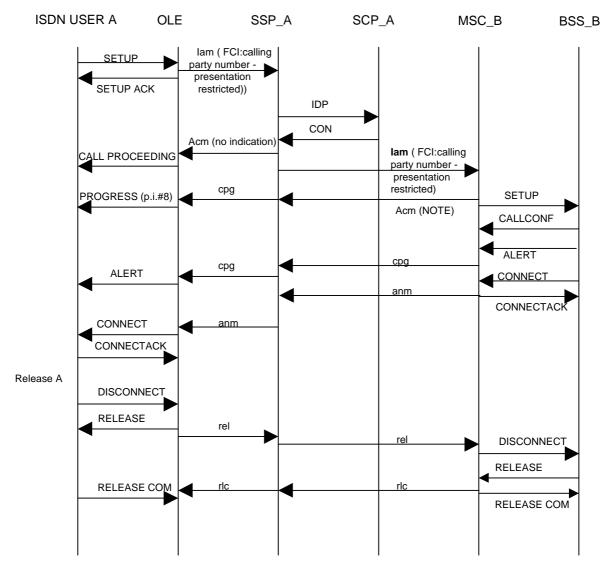


Figure 63: Number translation services; Supplementary Service CLIR, "presentation restricted" parameter was received in the INAP serviceInteractionIndicatorsTwo

	Table 4 :	
IGxx NS CLIR 02	GSM ref. to:	Other ref.:
	EN 300 940	Q.1601 clause 12
	TS 101 285 (GSM 02.78) St 1	
	TS 101 044 (GSM 03.78) St 2	
	TS 101 046 (GSM 09.78) St 3	
TSS reference:		services/Supplementary Services/CLIR
ISDN selection criteria	Numb_Trans,	•
orign.:	_ ,	
GSM selection criteria	Numb_Trans,	
term.:	_ ,	
Test purpose:	Ensure that when Calling party num	nber is provided by the OLE, the Calling party number
		the called user without any digit information if the IUT
		restriction indicator "presentation restricted" received
		atorsTwo (ForwardServiceInteractionInd/
		, to the calling party number address presentation
	restricted indicator 'presentation re	
PCO / PO	Initial Detection point	stricted parameter.
ISUP/INAP Interface	No action	
parameter		agration
	Connect Operation / Continue or	
Values (note):		/ map the calling party restriction indicator
		the INAP serviceInteractionIndicatorsTwo, to the
		presentation restricted indicator 'presentation
	restricted' parameter.	
	Sending of backward messages	
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or	
	in-band information, progress), CON and ANM.	
	Receiving of Release message	
	Verify that the IUT can successfully release the call like an ordinary transit exchange.	
PCO / PO	Initial Detection point	
ISDN/INAP interface	No action	
parameter	Sending of backward messages	
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,	
	ALERTING, PROGRESS or CONNECT to the originating side.	
	Receiving of a Release message	
	Verify that the IUT can successfully	release the call.
ISDN parameter values	BC = BC_ID	
orign.:	synchronous/ asynchronous mo	ode: MODE
	user rate: USER_RATE	
	LLC = BC ID	
	synchronous/ asynchronous mo	ode: MODE
	user rate: USER_RATE	
	HLC = HLC_ID	
GSM parameter values	GSM-BC = GSM-BC_ID	
term.:	synchronous/ asynchronous mo	ode. MODE
	user rate: USER_RATE	
	LLC = synchronous/ asynchronous	mode: MODE
	user rate: USER_RATE	. modo. mode
	HLC = HLC_ID	
Comments:	1120 - 1120_10	
Comments.		

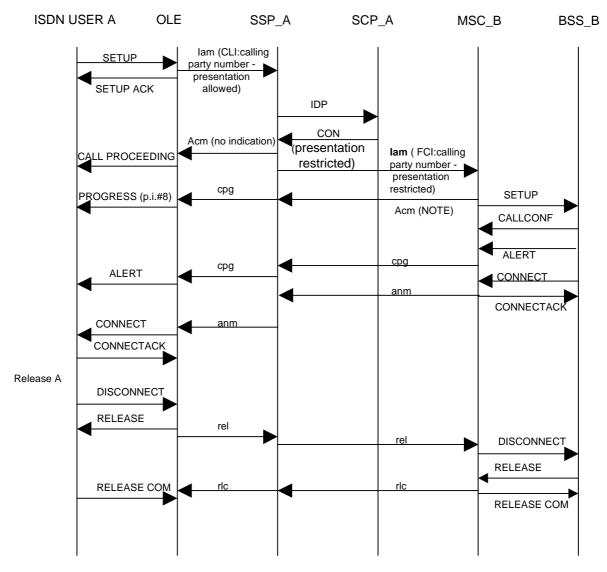


Figure 64: Number translation services; Supplementary Service CLIR, "presentation restricted" parameter was received in the INAP serviceInteractionIndicatorsTwo

GG xx NS CLIR 03	GSM ref. to:	Other ref.:
GGXX NS CLIR 03	EN 300 940	Q.1601 clause 12
	TS 101 285 (GSM 02.78) St 1	Q. 1001 Clause 12
	TS 101 283 (GSM 02.76) St 1	
	TS 101 044 (GSM 03.78) St 2	
TSS reference:		comices/Cupplementary Comices/CLID
TSS reference:		services/Supplementary Services/CLIP
	Numb_Trans,	
ISDN selection criteria orign.:	Numb_Trans,	
GSM selection criteria	Encure that when Calling party pur	mber is provided by OLE with calling party restriction
term.:		the Calling party number information element is
term.	delivered to the called user without	
		lling party restriction indicator 'no IN impact' received
		catorsTwo (ForwardServiceInteractionInd/
), to the calling party number address presentation
	restricted indicator "presentation a	
Test purpose:	Initial Detection point	nowed parameter.
rest purpose.	No action	
	Connect Operation / Continue of	neration
		y map calling party restriction indicator "presentation
		nteractionIndicatorsTwo, to the then calling party
		ricted indicator 'presentation restricted' parameter.
	Sending of backward messages	
		y map the backward messages ACM, CPG (alerting or
	in-band information, progress), CC	on and ANM.
	Receiving of Release message	
		y release the call like an ordinary transit exchange.
PCO / PO	Initial Detection point	,
ISUP/INAP Interface	No action	
parameter	Sending of backward messages	
Values (note):	Verify that the IUT can successfull	y map the backward messages CALL PROCEEDING,
	ALERTING, PROGRESS or CONNECT to the originating side.	
	Receiving of a Release message	
	Verify that the IUT can successfully release the call.	
PCO / PO	Initial Detection point	
ISDN/INAP interface	No action	
parameter	Sending of backward messages	
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,	
	ALERTING, PROGRESS or CON	
	Receiving of a Release message	
	Verify that the IUT can successfully	y release the call.
ISDN parameter values	BC = BC_ID	
orign.:	synchronous/ asynchronous me	ode: MODE
	user rate: USER_RATE	
	LLC = BC_ID	
	synchronous/ asynchronous me	ode: MODE
	user rate: USER_RATE	
	HLC = HLC_ID	
GSM parameter values	GSM-BC = GSM-BC_ID	ada, MODE
term.:	synchronous/ asynchronous me	ode: MODE
	user rate: USER_RATE	and MODE
	LLC = synchronous/ asynchronous	s made: MODE
	user rate: USER_RATE	
Commonto	HLC = HLC_ID	
Comments:		
Comments.		

IG___SPNS_CLIR_03

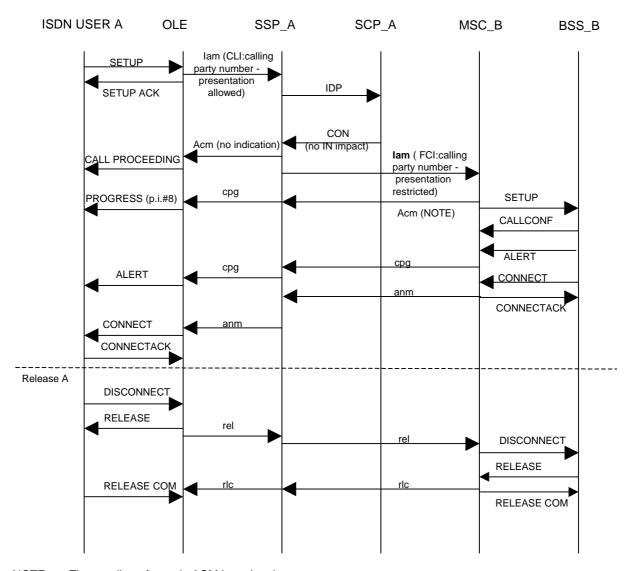


Figure 65: Number translation services; Supplementary Service CLIR, "presentation restricted" parameter was received in the CLI, "no IN impact" parameter was received in the INAP serviceInteractionIndicatorsTwo

IG xx NS COLP 01	GSM ref. to:	Other ref.: Q.1601 clause 12.5.1
IGxx NS COLP 01	EN 300 940	Other rei Q. 1601 clause 12.5.1
	TS 101 285 (GSM 02.78) St 1	
	TS 101 044 (GSM 03.78) St 2	
TCC vofeveres	TS 101 046 (GSM 09.78) St 3	i/0
TSS reference:		services/Supplementary Services/COLP
ISDN selection criteria	Numb_Trans,	
orign.:	<u> </u>	
GSM selection criteria	Numb_Trans,	
term.:		
Test purpose:		eived in the serviceInteractionIndicatorsTwo
		ator), then a connected number parameter is passed
	on unchanged.	
		nformation element is provided and correctly
	delivered to the calling (served) use	er.
PCO / PO	Initial Detection point	
ISUP/INAP Interface	No action	
parameter	Connect Operation / Continue op	
Values (note):		serviceInteractionIndicatorsTwo (connected number
		ted number parameter and a generic number
	parameter 'additional connected nu	mber' are passed on unchanged.
	Sending of backward messages	
		map the backward messages ACM, CPG (alerting or
	in-band information, progress), COI	N and ANM.
	Receiving of Release message	
		release the call like an ordinary transit exchange.
PCO / PO	Initial Detection point	
ISDN/INAP interface	No action	
parameter	Sending of backward messages	
Values (note):		map the backward messages CALL PROCEEDING,
	ALERTING, PROGRESS or CONNECT to the originating side.	
		nformation element is provided and correctly
	delivered to the calling (served) user.	
	Receiving of a Release message	
	Verify that the IUT can successfully	release the call.
ISDN parameter values	BC = BC_ID	
orign.:	synchronous/ asynchronous mo	de: MODE
	user rate: USER_RATE	
	LLC = BC_ID	
	synchronous/ asynchronous mo	de: MODE
	user rate: USER_RATE	
	HLC = HLC_ID	
GSM parameter values	GSM-BC = GSM-BC_ID	
term.:	synchronous/ asynchronous mo	de: MODE
	user rate: USER_RATE	
Ī		mode: MODE
	LLC = synchronous/ asynchronous	mede. Mede
	user rate: USER_RATE	
Comments:	user rate: USER_RATE	
Comments:	user rate: USER_RATE	

IG___SPNS_COLP_01 ISDN USER A OLE SSP_A SCP_A MSC_B BSS_B SETUP | lam | (OFCI:COL requested)

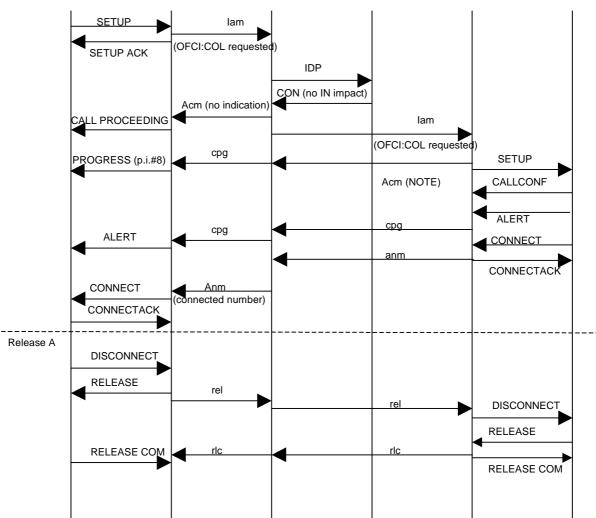


Figure 66: Number translation services; Supplementary Service COLP with "no IN impact" parameter received in the serviceInteractionIndicatorsTwo

IC WALCOUR OO	GSM ref. to:	Other ref.:
IGxx NS COLP 02		
	EN 300 940	Q.1601 clause 12.5.1 a)
	TS 101 285 (GSM 02.78) St 1	
	TS 101 044 (GSM 03.78) St 2	
	TS 101 046 (GSM 09.78) St 3	
TSS reference:		services/ Supplementary Services/COLP
ISDN selection criteria	Numb_Trans,	
orign.:		
GSM selection criteria	Numb_Trans,	
term.:		
Test purpose:	Verify that if 'presentation restricted	
		nen if a connected number parameter has been
	received in the ANM or CON mess	
	restricted indicator is set to 'presen	
		information element is network provided and
	delivered to the calling (served) us	er without any digit information.
PCO / PO	Initial Detection point	
ISUP/INAP Interface	No action	
parameter	Connect Operation / Continue of	
Values (note):	Verify that if 'presentation restricted	d' was received in the INAP
		nen if a connected number parameter has been
	received in the ANM or CON mess	age, the address presentation
	restricted indicator is set to 'presen	tation restricted'.
	Sending of backward messages	
	Verify that the IUT can successfully	y map the backward messages ACM, CPG (alerting or
	in-band information, progress), CO	N and ANM.
	Verify that the Connected number information element is network provided and delivered	
	to the calling (served) user without any digit information.	
	Receiving of Release message	
	Verify that the IUT can successfully release the call like an ordinary transit exchange.	
PCO / PO	Initial Detection point	
ISDN/INAP interface	No action	
parameter	Sending of backward messages	
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,	
	ALERTING, PROGRESS or CONNECT to the originating side.	
	Receiving of a Release message	•
	Verify that the IUT can successfully	y release the call.
ISDN parameter values	BC = BC_ID	
orign.:	synchronous/ asynchronous me	ode: MODE
	user rate: USER_RATE	
	LLC = BC_ID	
	synchronous/ asynchronous mo	ode: MODE
	user rate: USER_RATE	
	HLC = HLC_ID	
GSM parameter values	GSM-BC = GSM-BC_ID	
term.:	synchronous/ asynchronous mo	ode: MODE
	user rate: USER_RATE	
	LLC = synchronous/ asynchronous	s mode: MODE
	user rate: USER_RATE	
	HLC = HLC_ID	
Comments:	- -	
	1	

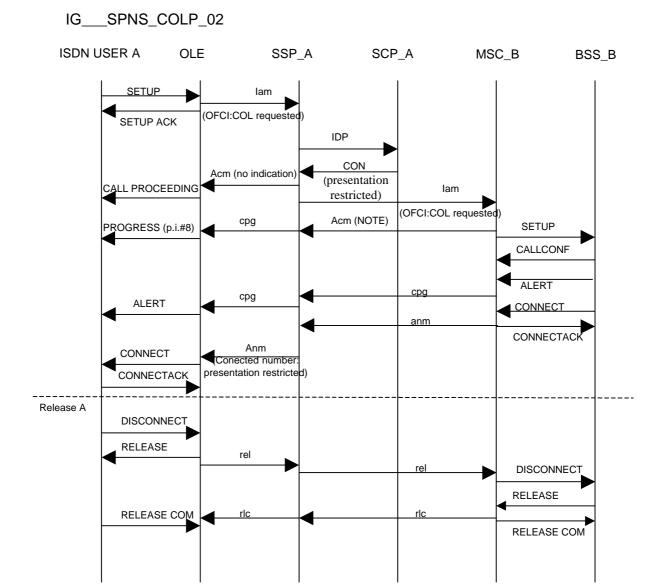


Figure 67: Number translation services; Supplementary Service COLP with "presentation restricted" parameter received in the serviceInteractionIndicatorsTwo

101 NO 001 D 00	OOM t t	Other and
IGIxx NS COLP 03	GSM ref. to:	Other ref.:
	EN 300 940	Q.1601 clause 12.5.1 c)
	TS 101 285 (GSM 02.78) St 1	
	TS 101 044 (GSM 03.78) St 2	
	TS 101 046 (GSM 09.78) St 3	
TSS reference:		services/Supplementary Services/COLP
ISDN selection criteria	Numb_Trans,	
orign.:		
GSM selection criteria	Numb_Trans,	
term.:		
Test purpose:	Verify that if 'presentation restricted	
		en if a redirection number parameter has been
	received, a redirection number rest	
	ANM message with bits AB set to '	
		nformation element is network provided and delivered
	to the calling (served) user without	any digit information.
PCO / PO	Initial Detection point	
ISUP/INAP Interface	No action	
parameter	Connect Operation / Continue or	
Values (note):	Verify that if 'presentation restricted	
		en if a redirection number parameter has been
	received, a redirection number rest	
	ANM message with bits AB set to '	presentation restricted'.
	Sending of backward messages	
		map the backward messages ACM, CPG (alerting or
	in-band information, progress), CON and ANM.	
	Verify that the Connected number information element is network provided and delivered	
	to the calling (served) user without any digit information.	
	Receiving of Release message	
D00 / D0	Verify that the IUT can successfully release the call like an ordinary transit exchange.	
PCO / PO	Initial Detection point No action	
ISDN/INAP interface		
parameter	Sending of backward messages	constitution to the benefit world recognized CALL DROCEEDING
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.	
	Receiving of a Release message	
	Verify that the IUT can successfully	
ISDN parameter values	BC = BC ID	release the call.
orign.:	synchronous/ asynchronous mo	odo: MODE
origin	user rate: USER_RATE	ode. MODE
	LLC = BC ID	
	synchronous/ asynchronous mo	ode: MODE
	user rate: USER_RATE	July 1910 DE
	HLC = HLC_ID	
GSM parameter values	GSM-BC = GSM-BC_ID	
term.:	synchronous/ asynchronous mo	ode: MODE
	user rate: USER_RATE	OGO. MODE
	LLC = synchronous/ asynchronous	mode: MODE
	user rate: USER_RATE	modo. mode
	HLC = HLC_ID	
Comments:		

GG__SPNS_COLP_03

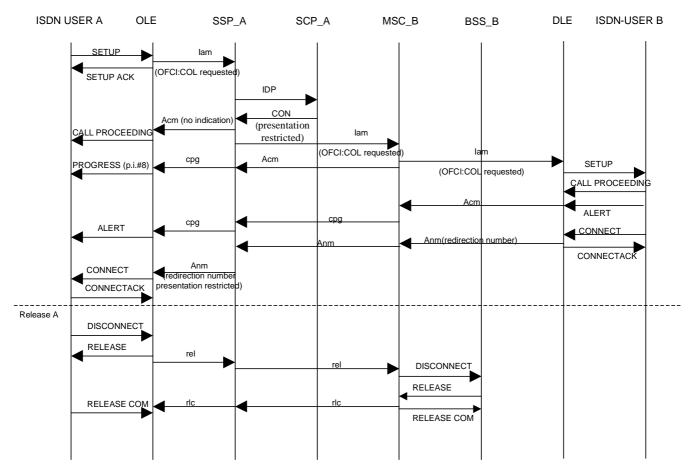


Figure 68: Number translation services; Supplementary Service COLP with "presentation restricted" parameter received in the serviceInteractionIndicatorsTwo

COLP 04	EN 300 940	Q.1601 clause 12.5.1
	TS 101 285 (GSM 02.78) St 1	
	TS 101 044 (GSM 03.78) St 2	
	TS 101 046 (GSM 09.78) St 3	
TSS reference:	ISDN to GSM/ Number translation s	services/Supplementary Services/COLP
ISDN selection	Numb_Trans,	
criteria orign.:		
GSM selection	Numb_Trans,	
criteria term.:		
Test purpose:	If 'present called IN number' was re then if a connected number parame the connected number	ceived in the INAP serviceInteractionIndicatorsTwo, eter has been received in the ANM or CON message,
		ature of address indicator and numbering plan
	the IAM message, address present	ation restricted indicator: 00 (presentation allowed), called party number and possible subsequent
PCO / PO	Initial Detection point	
ISUP/INAP Interface	No action	
parameter	Connect Operation / Continue op	eration
Values (note):		ceived in the INAP serviceInteractionIndicatorsTwo,
	then if a connected number parame	eter has been received in the ANM or CON message,
	the connected number	
		ature of address indicator and numbering plan
		n the called party number of the IAM message,
	address presentation restricted indi	
		called party number and possible subsequent
	number parameters, until the ACM message was sent.	
	Sending of backward messages	
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or	
	in-band information, progress), CON and ANM. Receiving of Release message	
	Verify that the IUT can successfully release the call like an ordinary transit exchange.	
PCO / PO	Initial Detection point	release the ball like all brainary transit exertainge.
ISDN/INAP interface	No action	
parameter	Sending of backward messages	
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,	
, ,	ALERTING, PROGRESS or CONNECT to the originating side.	
	Receiving of a Release message	
	Verify that the IUT can successfully	release the call.
ISDN parameter	BC = BC_ID	
values orign.:	synchronous/ asynchronous mo	de: MODE
	user rate: USER_RATE	
	LLC = BC_ID	
		nde: MODE
	synchronous/ asynchronous mo	do. Mobe
	user rate: USER_RATE	do. MODE
	user rate: USER_RATE HLC = HLC_ID	00. MODE
GSM parameter	user rate: USER_RATE HLC = HLC_ID GSM-BC = GSM-BC_ID	
GSM parameter values term.:	user rate: USER_RATE HLC = HLC_ID GSM-BC = GSM-BC_ID synchronous/ asynchronous mo	
	user rate: USER_RATE HLC = HLC_ID GSM-BC = GSM-BC_ID synchronous/ asynchronous mouser rate: USER_RATE	ode: MODE
	user rate: USER_RATE HLC = HLC_ID GSM-BC = GSM-BC_ID synchronous/ asynchronous mo user rate: USER_RATE LLC = synchronous/ asynchronous	ode: MODE
	user rate: USER_RATE HLC = HLC_ID GSM-BC = GSM-BC_ID synchronous/ asynchronous mo user rate: USER_RATE LLC = synchronous/ asynchronous user rate: USER_RATE	ode: MODE
	user rate: USER_RATE HLC = HLC_ID GSM-BC = GSM-BC_ID synchronous/ asynchronous mo user rate: USER_RATE LLC = synchronous/ asynchronous	ode: MODE

IG___SPNS_COLP_04

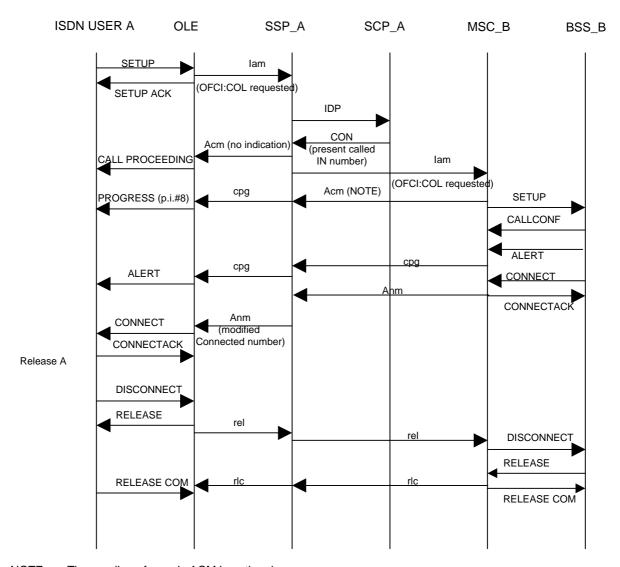


Figure 69: Number translation services; Supplementary Service COLP with "present called IN number" parameter received in the serviceInteractionIndicatorsTwo

IGI xx NS	GSM ref. to:	Other ref.:
COLP 05	EN 300 940	Q.1601 clause 12.5.1
002. 00	TS 101 285 (GSM 02.78) St 1	Q. 100 1 010000 12.0.1
	TS 101 044 (GSM 03.78) St 2	
	TS 101 046 (GSM 09.78) St 3	
TSS reference:		services/Supplementary Services/CFxx
ISDN selection	Numb_Trans,	
criteria orign.:		
GSM selection	Numb_Trans,	
criteria term.:		
Test purpose:		ceived in the INAP serviceInteractionIndicatorsTwo, a
		leted from the relevant messages, if applicable.
PCO / PO	Initial Detection point	
ISUP/INAP Interface	No action	
parameter	Connect Operation / Continue op	
Values (note):	If present called IN number was re	ceived in the INAP serviceInteractionIndicatorsTwo, a leted from the relevant messages, if applicable.
	Sending of backward messages	leted from the relevant messages, if applicable.
		map the backward messages ACM, CPG (alerting or
	in-band information, progress), CO	
	Receiving of Release message	V and 7 (vivi.
		release the call like an ordinary transit exchange.
PCO / PO	Initial Detection point	Total and the arrangement of the state of th
ISDN/INAP interface	No action	
parameter	Sending of backward messages	
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,	
	ALERTING, PROGRESS or CONNECT to the originating side.	
	Receiving of a Release message	
	Verify that the IUT can successfully	release the call.
ISDN parameter	BC = BC_ID	
values orign.:	synchronous/ asynchronous mo	de: MODE
	user rate: USER_RATE	
	LLC = BC_ID	
	synchronous/ asynchronous mo	de: MODE
	user rate: USER_RATE	
GSM parameter	HLC = HLC_ID	
values term.:	GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE	
values term	user rate: USER RATE	ide. MODE
	LLC = synchronous/ asynchronous	mode: MODE
	user rate: USER_RATE	mode. MODE
	HLC = HLC_ID	
Comments:		

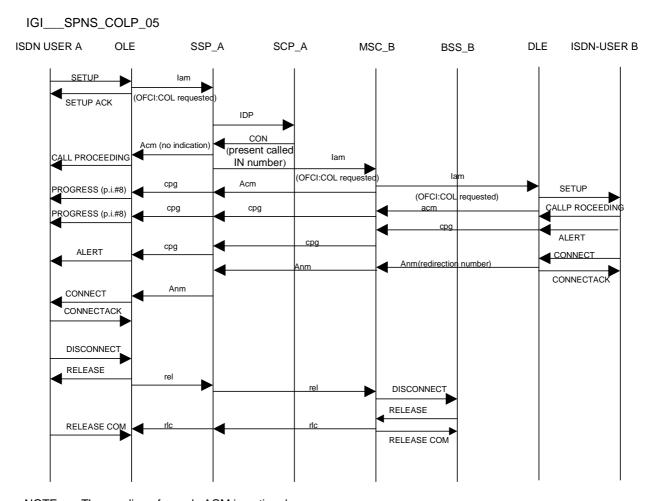


Figure 70: Number translation services; Supplementary Service COLP with "present called IN number" parameter received in the serviceInteractionIndicatorsTwo, the redirection number parameter is deleted from the relevant messages

IGxx NS	GSM ref. to:	Other ref.:	
COLP 06	EN 300 940	Q.1601 clause 12.5.1	
OOLI 00	TS 101 285 (GSM 02.78) St 1	Q. 1001 0ldu30 12.3.1	
	TS 101 044 (GSM 03.78) St 2		
	TS 101 046 (GSM 09.78) St 3		
TSS reference:		n services/Supplementary Services/COLP	
ISDN selection	Numb_Trans,		
criteria orign.:	1 - 1 - 1 - 1		
GSM selection	Numb_Trans,		
criteria term.:	1 - 1 - 1 - 1		
Test purpose:	If 'present called IN number restric	cted' was received in the INAP	
	serviceInteractionIndicatorsTwo, t	hen if a connected number parameter has been	
	received in the ANM or CON mes	sage, the connected number	
	parameter is modified as follows:		
		umbering plan indicator are encoded as received in the	
	called party number of		
		ntation restricted indicator: 01 (presentation restricted),	
		e called party number and possible subsequent	
	number parameters, until the ACN	M message was sent.	
PCO / PO	Initial Detection point		
ISUP/INAP Interface	No action	an anathan	
parameter	Connect Operation / Continue of		
Values (note):	If 'present called IN number restric		
		hen if a connected number parameter has been sage, the connected number parameter is modified as	
	follows:	sage, the connected number parameter is modified as	
		nd numbering plan indicator are encoded as received in	
		e IAM message, address presentation restricted	
		stricted), address signals: as received in the called	
	party number and possible subsequent number parameters, until the ACM message was sent.		
	Sending of backward messages		
		Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or	
	in-band information, progress), Co		
	Receiving of Release message		
	Verify that the IUT can successfully release the call like an ordinary transit exchange.		
PCO / PO	Initial Detection point		
ISDN/INAP interface	No action		
parameter	Sending of backward messages		
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,		
	ALERTING, PROGRESS or CON		
	Receiving of a Release messag		
	Verify that the IUT can successful	ly release the call.	
ISDN parameter	BC = BC_ID		
values orign.:	synchronous/ asynchronous m	node: MODE	
	user rate: USER_RATE		
	LLC = BC_ID	LAODE	
	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE HLC = HLC_ID		
GSM parameter	GSM-BC = GSM-BC_ID		
values term.:	synchronous/ asynchronous m	node: MODE	
values tellil	user rate: USER_RATE	IOUG. IVIODE	
	LLC = synchronous/ asynchronou	s mode: MODE	
	user rate: USER_RATE	S MOGG. WODE	
	HLC = HLC_ID		
Comments:	1.23 - 1.20_15		
	ı		

IG___SPNS_COLP_06

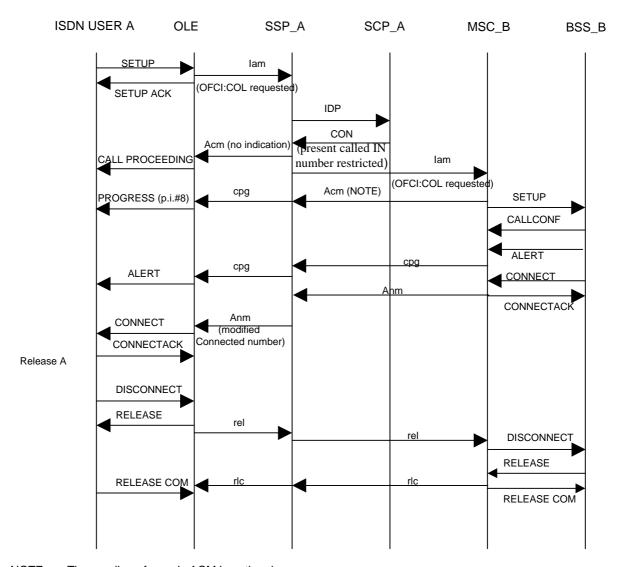
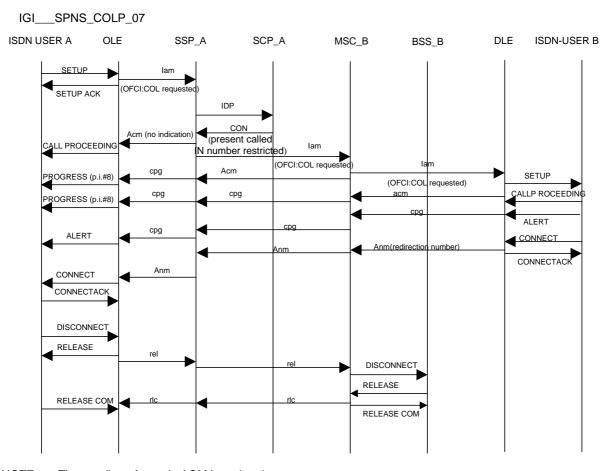


Figure 71: Number translation services; Supplementary Service COLP with "present called IN number restricted" parameter received in the serviceInteractionIndicatorsTwo

IGI xx NS	GSM ref. to:	Other ref.:	
COLP 7	EN 300 940	Q.1601 clause 12.5.1	
COLI	TS 101 285 (GSM 02.78) St 1	Q.1001 clause 12.5.1	
	TS 101 283 (GSM 02.76) St 1		
	TS 101 044 (GSM 03.76) St 2		
TSS reference:		on vices/Cumplementers/ Convices/COLD	
ISDN selection	ISDN to GSM/ Number translation services/Supplementary Services/COLP Numb Trans,		
	INUMD_Hans,		
criteria orign.: GSM selection	Numb Tage		
criteria term.:	Numb_Trans,		
	If have controlled IN november restricted to so received in the INIAD		
Test purpose:	If 'present called IN number restricted' was received in the INAP serviceInteractionIndicatorsTwo, then a redirection number parameter is deleted from		
DOG / DO	the relevant messages, if applicable. Initial Detection point		
PCO / PO	Variet that the U.T. can accept the	Verify that the IUT can successfully map the IAM parameter IAM_PAR_ID to the	
ISUP/INAP Interface	InitialDP parameter InitialIDP_PAR_ID (see annex C).		
parameter			
Values (note):	Connect Operation / Continue operation If 'present called IN number restricted' was received in the INAP		
	serviceInteractionIndicatorsTwo, then a redirection number parameter is deleted from the relevant messages, if applicable.		
	Sending of backward messages		
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or		
	in-band information, progress), CON and ANM.		
	Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.		
DCO / DO	Initial Detection point		
PCO / PO ISDN/INAP interface	No action		
parameter	Sending of backward messages		
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,		
values (note).	ALERTING, PROGRESS or CONNECT to the originating side.		
	Receiving of a Release message		
	Verify that the IUT can successfully release the call.		
ISDN parameter	BC = BC ID		
values orign.:	synchronous/ asynchronous mode: MODE		
values origin.	user rate: USER RATE		
	LLC = BC_ID		
	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE	ode. WODL	
	HLC = HLC ID		
GSM parameter	GSM-BC = GSM-BC ID		
values term.:	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	LLC = synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	HLC = HLC_ID		
Comments:			



NOTE: The sending of a early ACM is optional.

Figure 72: Number translation services; Supplementary Service COLP with "present called IN number restricted" was received in the INAP serviceInteractionIndicatorsTwo; redirection number parameter is deleted from the relevant messages

ICC VV NC	GSM ref. to:	Other ref.:	
IGGxx NS CFxx 01 xx	EN 300 940	Q.1601 clause 10.1.1.1.4	
CFXX UI_XX	TS 101 285 (GSM 02.78) St 1	Q.1601 clause 10.1.1.1.1.4	
	TS 101 265 (GSM 02.76) St 1		
TSS reference:	TS 101 046 (GSM 09.78) St 3 ISDN to GSM/Number translation services/Supplementary Services/CFxx		
ISDN selection		services/Supplementary Services/CFXX	
	Numb_Trans,		
criteria orign.: GSM selection	Niverby Trans		
criteria term.:	Numb_Trans,		
	Llear A etterante e cell te veer D		
Test purpose:	User A attempts a call to user B.	raction Indicators Two parameter (in the Connect	
		ractionIndicatorsTwo parameter (in the Connect peration (PICS)) indicated as default value	
	"callDiversionAllowed" (in the fo		
), is mapped to the value "no indication" in the	
	appropriate parameter in the IAN		
		I CFxx defined with the Parameter Value CFxx. Call	
	forwarding to user C takes place		
PCO / PO	Initial Detection point	,,	
ISUP/INAP Interface	No action		
parameter	Connect Operation / Continue op	peration	
Values (note):		the originating user service information and are	
values (Hote).		Connect Operation / Continue operation are	
	treated according to the normal cal		
		CM message is sent to the preceding exchange.	
		tionIndicatorsTwo parameter indicated as default	
		dication" in the appropriate parameter in the IAM	
	message.	aloation in the appropriate parameter in the intil	
	Sending of backward messages		
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or		
	in-band information, progress), CON and ANM.		
	Receiving of Release message		
	Verify that the IUT can successfully release the call like an ordinary transit exchange.		
PCO / PO	Initial Detection point		
ISDN/INAP interface	No action		
parameter	Sending of backward messages		
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,		
, ,	ALERTING, PROGRESS or CONN		
	Receiving of a Release message		
	Verify that the IUT can successfully release the call.		
ISDN parameter	BC = BC_ID		
values orign.:	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	LLC = BC_ID		
	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	HLC = HLC_ID		
GSM parameter	GSM-BC = GSM-BC_ID		
values term.:	synchronous/ asynchronous mo	ode: MODE	
	user rate: USER_RATE		
	LLC = synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	HLC = HLC_ID		
Comments:			

IGG_SPNS_CFxx_01_CFU

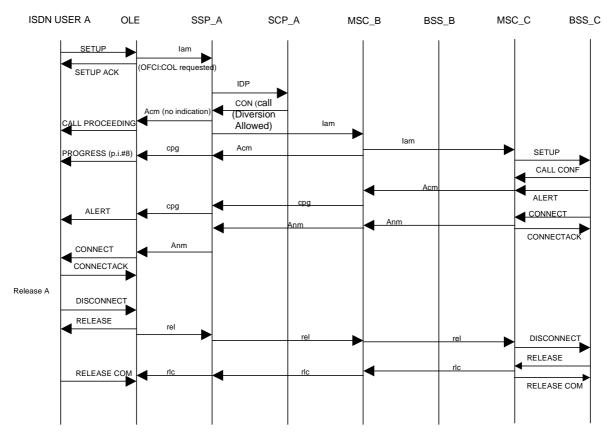


Figure 73: Number translation services; Supplementary Service CFU with the "callDiversionAllowed" parameter received in the INAP serviceInteractionIndicatorsTwo

IGG_SPNS_CFxx_01_CFB

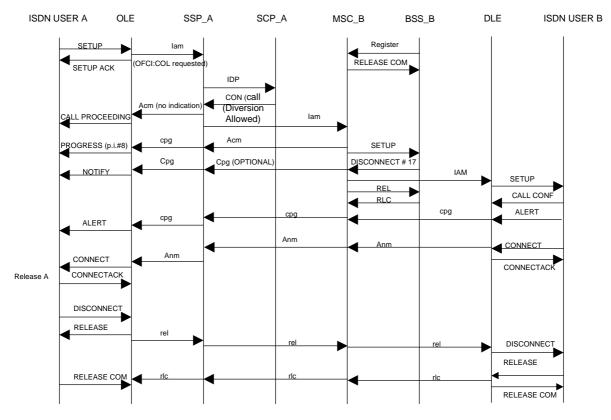


Figure 74: Number translation services; Supplementary Service CFB with the "callDiversionAllowed" parameter received in the INAP serviceInteractionIndicatorsTwo

IGxx NS	GSM ref. to:	Other ref.:		
CFxx 02	EN 300 940	Q.1601 clause 12.1		
O1 XX 02	TS 101 285 (GSM 02.78) St 1	Q.1001 clause 12.1		
	TS 101 044 (GSM 03.78) St 2			
	TS 101 046 (GSM 09.78) St 3			
TSS reference:		ISDN to GSM/ Number translation services/Supplementary Services/CFxx		
ISDN selection	Numb Trans,			
criteria orign.:	,			
GSM selection	Numb_Trans,			
criteria term.:	,			
Test purpose:	User A attempts a call to number I the Parameter Value CFxx. Call for	B. The called user B has activated CFxx defined with		
	If "suppress information" was recei	ved in the INAP serviceInteractionIndicatorsTwo (in allDiversionTreatmentIndicator), then the following		
	a) generic notification indicator pa			
	b) call diversion information param			
	c) redirection number parameter;	10.01,		
	d) redirection number restriction p	arameter.		
PCO / PO	Initial Detection point			
ISUP/INAP Interface	No action			
parameter	Connect Operation			
Values (note):	If "suppress information" was recei	ved in the INAP serviceInteractionIndicatorsTwo (call		
	diversion notification treatment indidiscarded, if received:	cator), then the following parameters shall be		
	a) generic notification indicator pa			
	b) call diversion information paran	neter;		
	c) redirection number parameter;			
	d) redirection number restriction p	arameter.		
	Sending of backward messages			
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or			
	in-band information, progress), CON and ANM.			
		Receiving of Release message		
200 / 20	Verify that the IUT can successfully release the call like an ordinary transit exchange.			
PCO / PO	Initial Detection point			
ISDN/INAP interface	No action			
parameter	Sending of backward messages			
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.			
	Receiving of a Release message Verify that the IUT can successfully release the call.			
ISDN parameter		/ IEIEASE LITE CAII.		
values orign.:	BC = BC_ID synchronous/ asynchronous mode: MODE			
values origin	user rate: USER_RATE	ode. MODE		
	LLC = BC_ID			
	synchronous/ asynchronous mo	ode: MODE		
	user rate: USER_RATE			
	HLC = HLC_ID			
GSM parameter	GSM-BC = GSM-BC_ID			
values term.:	synchronous/ asynchronous mo	ode: MODE		
	user rate: USER RATE			
	LLC = synchronous/ asynchronous	mode: MODE		
	user rate: USER_RATE	-		
	HLC = HLC_ID			
Comments:				

IGI_SPNS_CFxx_02_CFNRY

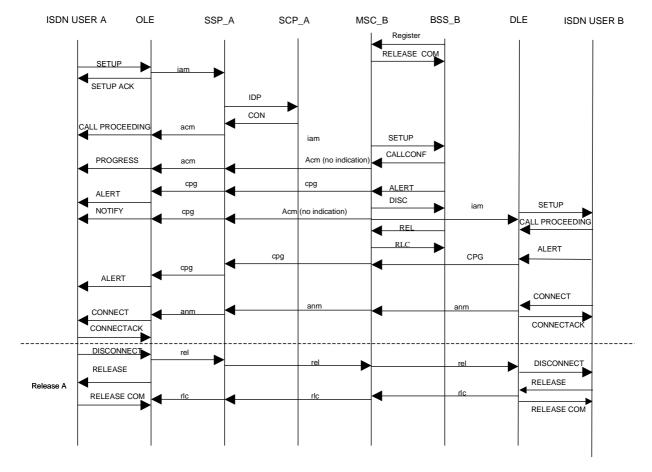


Figure 75: Number translation services; Supplementary Service CFNRy

IGG__SPNS_CFxx_02 CFNRC

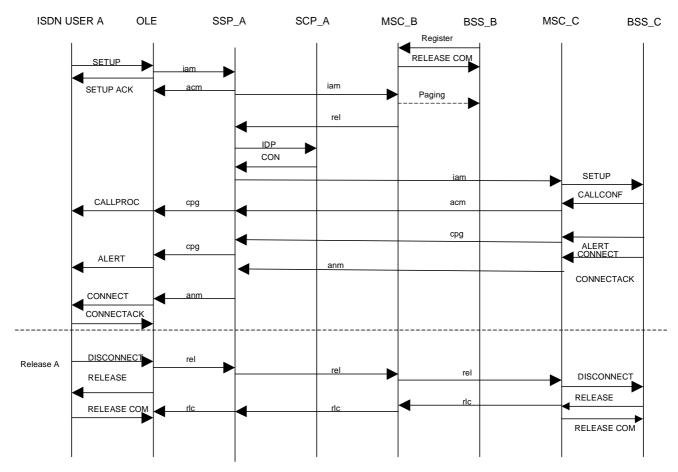


Figure 76: Number translation services; Supplementary Service CFNRy if "suppress information" was received in the INAP serviceInteractionIndicatorsTwo

	Interface parameter Values for test purpose IGxx NSCF 01 and IGxx NSCF 02
Variable	Parameter CFxx
VA_01	CFU
VA_02	CFB
VA_03	CFNRc
VA_04	CFNRy

IG xx NS	GSM ref. to:	Other ref.:	
CFU 01	EN 300 940	Q.1601 clauses 10.1.1.1.1.4 and 12.1.2.1	
CFUUI		Q.1601 clauses 10.1.1.1.1.4 and 12.1.2.1	
	TS 101 285 (GSM 02.78) St 1		
	TS 101 044 (GSM 03.78) St 2		
	TS 101 046 (GSM 09.78) St 3		
TSS reference:	ISDN to GSM/Number translation s	services/Supplementary Services/CF	
ISDN selection	Numb_Trans,		
criteria orign.:			
GSM selection	Numb_Trans,		
criteria term.:			
Test purpose:	User A attempts a call to number B		
l cot par poso:	The called user B has activated CI		
		ated by the Isubscriber is suppressed, if "call diversion	
	not allowed" (in the forward Service)	nteractionInd/ callDiversionTreatmentIndicator) was	
		nent indicators (call to be diverted indicator). The call	
		ient indicators (can to be diverted indicator). The can	
DOG / DO	is offered to the subscriber.		
PCO / PO	Initial Detection point		
ISUP/INAP Interface	No action		
parameter	Connect Operation / Continue op		
Values (note):		the originating user service information and are	
		Connect Operation / Continue operation are	
		I procedures. If Connect Operation applies an ACM	
	message is sent to the preceding e	exchange.	
	Verify that the INAP serviceInteract	ctionIndicatorsTwo parameter value indicated "call	
	diversion not allowed", is mapped t	o the value "call diversion not allowed" in the	
	appropriate parameter in the IAM n		
	Sending of backward messages	ŭ	
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or		
	in-band information, progress), CON and ANM.		
	Receiving of Release message		
	Verify that the IUT can successfully release the call like an ordinary transit exchange.		
PCO / PO	Initial Detection point		
ISDN/INAP interface	No action		
parameter	Sending of backward messages		
Values (note):		man the healtward massages CALL DROCEEDING	
values (note).	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,		
	ALERTING, PROGRESS or CONNECT to the originating side.		
	Receiving of a Release message		
10001	Verify that the IUT can successfully	/ release the call.	
ISDN parameter	BC = BC_ID		
values orign.:	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	LLC = BC_ID		
	synchronous/ asynchronous mo	ode: MODE	
	user rate: USER_RATE		
	HLC = HLC_ID		
GSM parameter	GSM-BC = GSM-BC_ID		
values term.:	synchronous/ asynchronous mode:	MODE	
	user rate: USER_RATE		
	LLC = synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	HLC = HLC_ID		
Comments:	1.150 - 1.150_15		
Comments.			

IGG_SPNS_CFU_01

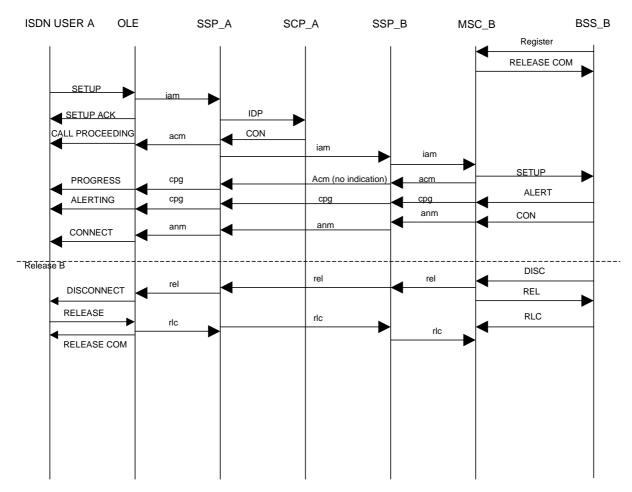


Figure 77: Number translation services; Supplementary Service CFU if "call diversion not allowed" was received in the call diversion treatment indicators

IG xx NS	GSM ref. to:	Other ref.:	
IGxx NS CFB 01	EN 300 940	Q.1601 clauses 10.1.1.1.1.4 and 12.1.2.1	
CFBUI		Q.1601 clauses 10.1.1.1.1.4 and 12.1.2.1	
	TS 101 285 (GSM 02.78) St 1		
	TS 101 044 (GSM 03.78) St 2		
TSS reference:	TS 101 046 (GSM 09.78) St 3 ISDN to GSM/Number translation services/Supplementary Services/CF		
		services/Supplementary Services/CF	
ISDN selection	Numb_Trans,		
criteria orign.: GSM selection	Niverb Tones		
criteria term.:	Numb_Trans,		
***************************************	Llean A attampte a call to year D		
Test purpose:	User A attempts a call to user B. The called user B Number has acti	visted CED	
		ne ISDN subscriber is not performed, if "call diversion	
		all diversion treatment indicators (call to be diverted	
		g the appropriate cause in the REL message.	
PCO / PO	Initial Detection point	g the appropriate cause in the KEL message.	
ISUP/INAP Interface	No action		
parameter	Connect Operation / Continue op	poration	
Values (note):		n the originating user service information and are	
values (Hote).		Connect Operation / Continue operation are	
		I procedures. If Connect Operation applies an ACM	
	message is sent to the preceding e		
		ctionIndicatorsTwo parameter value indicated "call	
		o the value "call diversion not allowed" in the	
	1		
	appropriate parameter in the IAM message. Sending of backward messages		
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or		
	in-band information, progress), CON and ANM.		
	Receiving of Release message		
	Verify that the IUT can successfully release the call like an ordinary transit exchange.		
PCO / PO	Initial Detection point		
ISDN/INAP interface	No action		
parameter	Sending of backward messages		
Values (note):	Verify that the IUT can successfully	map the backward messages CALL PROCEEDING,	
	ALERTING, PROGRESS or CONNECT to the originating side.		
	Receiving of a Release message		
	Verify that the IUT can successfully release the call.		
ISDN parameter	BC = BC_ID		
values orign.:	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	LLC = BC_ID		
	synchronous/asynchronous mo	ode: MODE	
	user rate: USER_RATE		
	HLC = HLC_ID		
GSM parameter	GSM-BC = GSM-BC_ID		
values term.:	synchronous/ asynchronous mode: MODE		
		user rate: USER_RATE	
	LLC = synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
Commonts:	HLC = HLC_ID		
Comments:			

IG xx NS	GSM ref. to:	Other ref.:	
IGxx NS CFNRy 01	EN 300 940	Q.1601 clauses 10.1.1.1.1.4 and 12.1.2.1	
CFINKYUI	TS 101 285 (GSM 02.78) St 1	Q.1601 clauses 10.1.1.1.1.4 and 12.1.2.1	
	TS 101 265 (GSM 02.76) St 1		
TSS reference:	TS 101 046 (GSM 09.78) St 3 ISDN to GSM/Number translation services/Supplementary Services/CF		
		services/Supplementary Services/CF	
ISDN selection	Numb_Trans,		
criteria orign.: GSM selection	Niveria Tura		
criteria term.:	Numb_Trans,		
***************************************	Lisan A attannata a salita wasan D		
Test purpose:	User A attempts a call to user B.	voted CENDy	
	The called user B Number has activated by	valed CFINRY. by the subscriber is not performed, if "call diversion"	
		all diversion treatment indicators (call to be diverted	
	indicator). Call offering to the subsc		
PCO / PO	Initial Detection point	criber continues.	
ISUP/INAP Interface	No action		
parameter	Connect Operation / Continue or	porotion	
Values (note):		n the originating user service information and are	
values (note).		Connect Operation / Continue operation are	
		I procedures. If Connect Operation applies an ACM	
	message is sent to the preceding e		
		ctionIndicatorsTwo parameter value indicated "call	
		o the value "call diversion not allowed" in the	
	appropriate parameter in the IAM message. Sending of backward messages		
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or		
	in-band information, progress), CON and ANM.		
	Receiving of Release message		
	Verify that the IUT can successfully release the call like an ordinary transit exchange.		
PCO / PO	Initial Detection point		
ISDN/INAP interface	No action		
parameter	Sending of backward messages		
Values (note):		map the backward messages CALL PROCEEDING,	
	ALERTING, PROGRESS or CONNECT to the originating side.		
	Receiving of a Release message		
	Verify that the IUT can successfully release the call.		
ISDN parameter	BC = BC_ID		
values orign.:	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	LLC = BC_ID		
	synchronous/ asynchronous mo	ode: MODE	
	user rate: USER_RATE		
	HLC = HLC_ID		
GSM parameter	GSM-BC = GSM-BC_ID		
values term.:	synchronous/ asynchronous mode:	MODE	
	user rate: USER_RATE		
	LLC = synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	HLC = HLC_ID		
Comments:			

IG xx NS	GSM ref. to:	Other ref.:	
CCBS 01	EN 300 940	Q.1601 clause 12	
CCB3 01	TS 101 285 (GSM 02.78) St 1	Q.1001 clause 12	
	TS 101 283 (GSM 02.78) St 1		
TCC reference:	TS 101 046 (GSM 09.78) St 3 ISDN to GSM/Number translation services/Supplementary Services/CCBS		
TSS reference:		services/Supplementary Services/CCBS	
ISDN selection	Numb_Trans,		
criteria orign.:	1		
GSM selection	Numb_Trans,		
criteria term.:			
Test purpose:	Verify that the INAP serviceInteractionIndicatorsTwo parameter value (in the Connect operation (PICS) or Continue operation (PICS)) indicated " accept CCBS service request (default)", is mapped to the value " CCBS possible" in the appropriate parameter in the REL message. Ensure that user A can activate successful CCBS call setup to user B.		
PCO / PO	Initial Detection point		
ISUP/INAP Interface	No action		
parameter	Connect Operation / Continue op	peration	
Values (note):		the originating user service information and are	
		Connect Operation / Continue operation are treated	
		lures. If Connect Operation applies an ACM message	
	is sent to the preceding exchange.		
		ctionIndicatorsTwo parameter value indicated "accept	
		mapped to the value "CCBS possible" in the	
	appropriate parameter in the REL message.		
	Receiving of Release message		
	Verify that the IUT can successfully release the call like an ordinary transit exchange.		
PCO / PO	Initial Detection point		
ISDN/INAP interface	No action		
parameter	Sending of backward messages		
Values (note):	No action		
	Receiving of a Release message		
	No action		
ISDN parameter	BC = BC_ID		
values orign.:	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	LLC = BC ID		
	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	HLC = HLC_ID		
GSM parameter	GSM-BC = GSM-BC_ID		
values term.:	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	LLC = synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	HLC = HLC_ID		
Comments:			
L	1		

IG xx NS	GSM ref. to:	Other ref.:	
CCBS 02	EN 300 940	Q.1601 clause 12	
0020 02	TS 101 285 (GSM 02.78) St 1	Q.1001 01000 12	
	TS 101 044 (GSM 03.78) St 2		
	TS 101 046 (GSM 09.78) St 3		
TSS reference:	ISDN to GSM/ Number translation services/Supplementary Services/CCBS		
ISDN selection	Numb_Trans,	convictor experience in a service of Constant	
criteria orign.:	rans_rans,		
GSM selection	Numb_Trans,		
criteria term.:			
Test purpose:	To verify that the Call is not routed	to the Called Party Number, but to a translated	
' '	Number.	,	
	If "reject call completion request" w	as received in the INAP serviceInteractionIndicator	
		nt indicator), then in a received REL message a	
		field of the cause indicators is replaced with "CCBS	
	not possible".	·	
		e successful CCBS call setup to user B.	
PCO / PO	Initial Detection point	·	
ISUP/INAP Interface	No action		
parameter	Connect Operation / Continue op		
Values (note):	Parameters which were received in	the originating user service information and are	
		Connect Operation / Continue operation are treated	
		lures. If Connect Operation applies an ACM message	
	is sent to the preceding exchange.		
		as received in the INAP serviceInteractionIndicator	
		nt indicator), then in a received REL message a	
	"CCBS possible" in the diagnostics field of the cause indicators is replaced with "CCBS		
	not possible".		
	Receiving of Release message		
	Verify that the IUT can successfully release the call like an ordinary transit exchange.		
PCO / PO	Initial Detection point		
ISDN/INAP interface	No action Sending of backward messages		
parameter	Sending of backward messages		
Values (note):	No action		
	Receiving of a Release message		
IODNI	No action		
ISDN parameter values orign.:	BC = BC_ID	ode, MODE	
values origin.:	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE LLC = BC ID		
	synchronous/ asynchronous mo	odo: MODE	
		de. MODE	
	user rate: USER_RATE HLC = HLC_ID		
GSM parameter	GSM-BC = GSM-BC ID		
values term.:	synchronous/ asynchronous mode: MODE		
Taidos torilli.	user rate: USER_RATE	OGO. MODE	
	LLC = synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	HLC = HLC_ID		
Comments:			
L			

IG xx NS	GSM ref. to:	Other ref.:
MCID 01	EN 300 940	Q.1601 clause 12.7
WIGID 01	TS 101 285 (GSM 02.78) St 1	Q.1001 clause 12.7
	TS 101 265 (GSM 02.76) St 1	
	TS 101 044 (GSM 03.78) St 2	
TSS reference:		services/Supplementary Services/MCID
ISDN selection	Numb_Trans,	services/supplementary services/NICID
	Numb_rrans,	
criteria orign.:	Niverb Terms	
GSM selection criteria term.:	Numb_Trans,	
	E di cital MOID: : l l	
Test purpose:		by the called user in the active call state, the call is
	registered.	. 1100
		ass a received IDR message transparently to the
		ent IRS message is passed transparently to the
		e MCID request indicators was set to 1, then in
		ne service switching point shall include the charged
	party identification parameter, if av	allable, into the IRS message.
PCO / PO	Initial Detection point	
ISUP/INAP Interface		ass a received IDR message transparently to the
parameter		ent IRS message is passed transparently to the
Values (note):		e MCID request indicators was set to 1, then in
		ne service switching point shall include the charged
	party identification parameter, if av	
	Connect Operation / Continue op	
	Parameters which were received in the originating user service information and are	
	not replaced by parameters of the Connect Operation / Continue operation are treated	
	according to the normal call procedures.	
	Receiving of Release message	
	Verify that the IUT can successfully release the call like an ordinary transit exchange.	
PCO / PO	Initial Detection point	
ISDN/INAP interface	No action	
parameter	Sending of backward messages	
Values (note):	No action	
	Receiving of a Release message	
	No action	
ISDN parameter	BC = BC_ID	
values orign.:	synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE	
	LLC = BC_ID	
	synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE	
	HLC = HLC_ID	
GSM parameter	GSM-BC = GSM-BC_ID	
values term.:	synchronous/ asynchronous mo	ode: MODE
	user rate: USER_RATE	
	LLC = synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE	
	HLC = HLC_ID	
Comments:		

7.3 Support of IN services - Fixed Networks - Fixed Networks

7.3.1 IN configurations

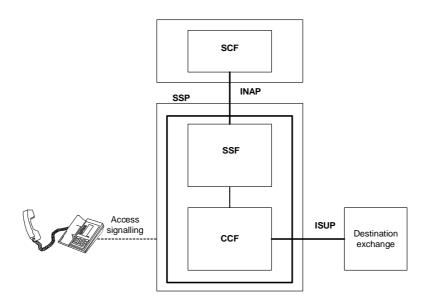


Figure 78: Outgoing case; Signalling configuration for IN call without SRF support

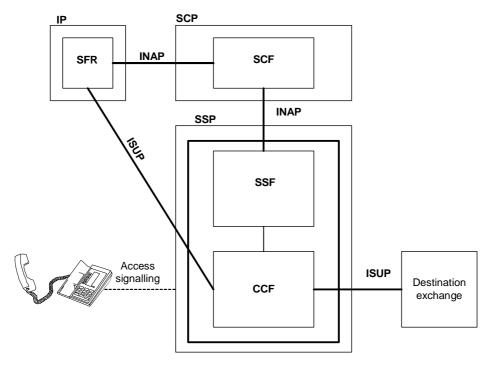


Figure 79: Outgoing case - External IP connected via ISUP; direct TCAP between SRF and SCF ("Assist" method)

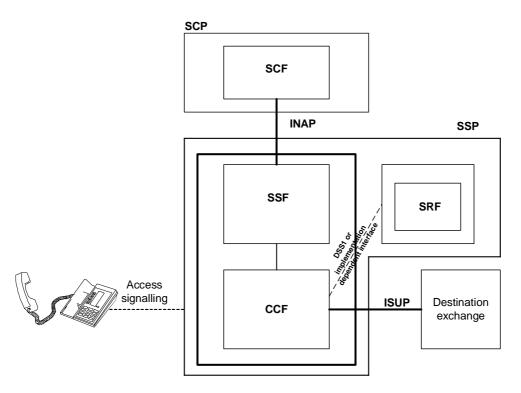


Figure 80: Outgoing case (Connection to integrated or external IP with SSP relay of IP operations)

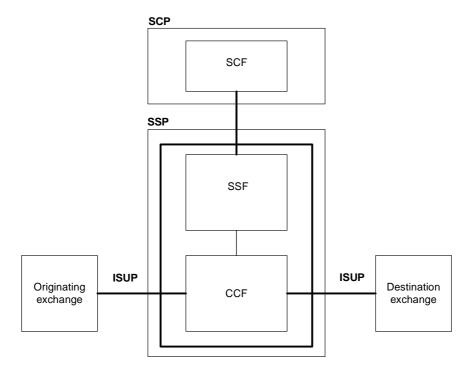
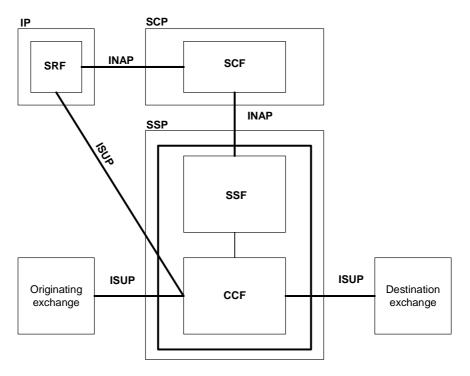


Figure 81: Terminating SSP - Signalling configuration for IN call without SRF support



NOTE: This method may be used in some networks. However, problems are identified regarding network integrity aspects and standardized solutions of the ISUP signalling for this type of interface.

Figure 82: Terminating SSP [External IP connected via ISUP; direct TCAP link between SRF and SCF ("Assist" method)]

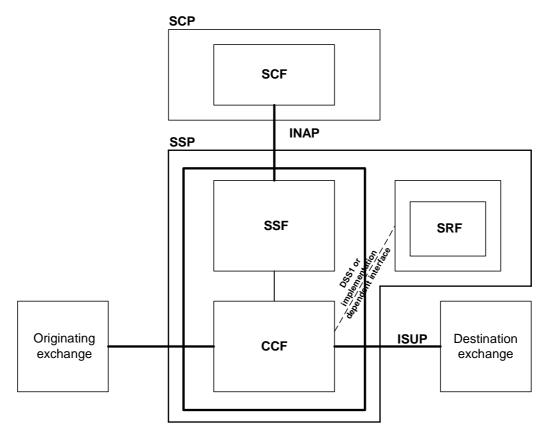


Figure 83: Terminating case (Connection to integrated or external IP with SSP relay of IP operations)

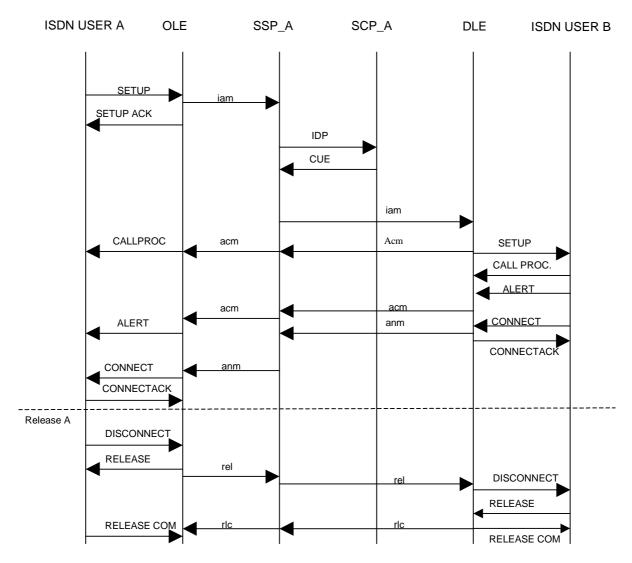
7.3.2 Test purposes for ISDN to ISDN, Basic call

7.3.2.1 Successful

Successful	

IIxx N_ 01	Other ref.:		
	Q.1601		
	EN 301 931-2 clause 14.3		
TSS reference:	ISDN to ISDN/Number translation services/Successful		
ISDN selection	Numb_Trans		
criteria:			
Test purpose:	Verify that the Call is routed to the Called Party Number with a Continue operation.		
	Parameters which were received in the IAM and are not replaced by parameters of the		
	Continue operation are treated according to the normal procedures.		
	Terminating B-Subscriber routed to ISUP link.		
PCO / PO	Initial Detection point		
ISUP/INAP Interface	Verify that the IUT can successfully map the IAM parameter IAM_PAR_ID to the		
parameter	InitialDP parameter InitialIDP_PAR_ID (see annex C).		
Values (note):	Receiving of Continue message		
	On receipt of a Continue operation from the SCP call processing is resumed.		
	The SSP may modify signalling information received from the preceding exchange		
	according to the capabilities used on the outgoing route. SIInalling information that may		
	be changed are nature of connection indicator and propagation delay counter. Other		
	signalling information is passed on transparently, e.g. the access transport parameter,		
	user service information, etc. The order of information elements carried in the access		
	transport parameter received from the incoming exchange shall be retained.		
	Sending of backward messages		
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or		
	in-band information, progress), CON and ANM.		
	Receiving of Release message		
	Verify that the IUT can successfully release the call like an ordinary transit exchange.		
PCO / PO	Initial Detection point		
ISDN/INAP interface	Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP		
parameter	parameter InitialIDP_PAR_ID (see annex C).		
Values (note):	Sending of backward messages		
	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,		
	ALERTING, PROGRESS or CONNECT to the originating side.		
	Receiving of a Release message		
	Verify that the IUT can successfully release the call.		
ISDN parameter	BC = BC_ID		
values:	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	LLC = BC_ID		
	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	HLC = HLC_ID		
Comments:			

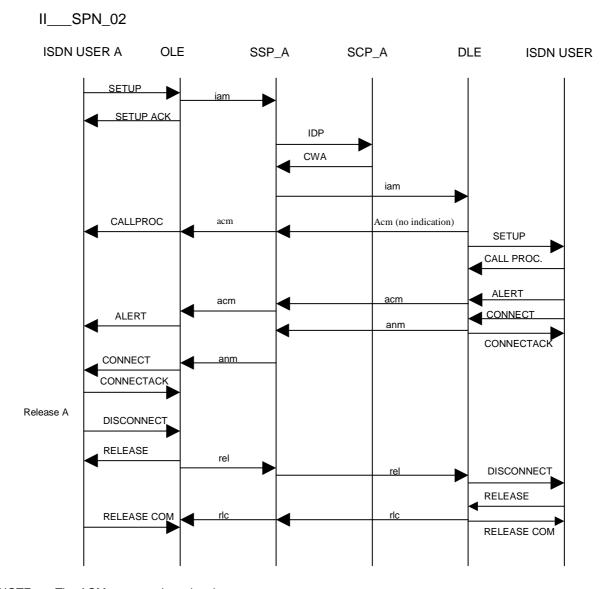




NOTE: The ACM message is optional.

Figure 84: Number translation service flow with Continue Message

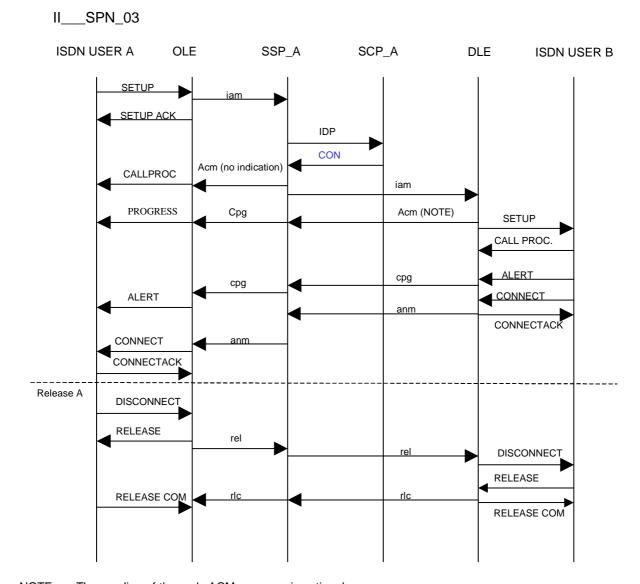
IIxx N02	Other ref.:		
	Q.1601		
	EN 301 931-2 clause 14.3		
TSS reference:	ISDN to ISDN/Number translation services/Successful		
ISDN selection	Numb_Trans		
criteria:			
Test purpose:		Party Number with a Continue operation.	
		e ServiceInteractionIndicatorsTwo received from	
		peration will be sent in the IAM by the SSP.	
PCO / PO	Initial Detection point		
ISUP/INAP Interface	Verify that the IUT can successfully map	the IAM parameter IAM_PAR_ID to the	
parameter	InitialDP parameter InitialIDP_PAR_ID (s	ee annex C).	
Values (note):	Receiving of Continue message		
	On receipt of a ContinueWithArgument o		
	Ensure that the CONTINUE_PAR_ID par	med as described in clause 2.1.2.2/Q.764.	
	ContinueWithArgument operation will be		
		AM and are not replaced by parameters of the	
		ated according to the normal procedures.	
	Sending of backward messages	ated according to the normal procedures.	
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or		
	in-band information, progress), CON and ANM.		
	Receiving of Release message		
	Verify that the IUT can successfully release the call like an ordinary transit exchange.		
PCO / PO	Initial Detection point		
ISDN/INAP interface	Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP		
parameter	parameter InitialIDP_PAR_ID (see annex	C).	
Values (note):	Sending of backward messages		
		the backward messages CALL PROCEEDING,	
	ALERTING, PROGRESS or CONNECT to the originating side.		
	Receiving of a Release message		
IODN	Verify that the IUT can successfully relea	se the call.	
ISDN parameter values:	BC = BC_ID		
values:	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE LLC = BC_ID		
	synchronous/ asynchronous mode: M	ODE	
	user rate: USER_RATE	ODL	
	HLC = HLC ID		
Comments:		serviceInteractionIndicatorsTwo. Mapping of	
Odininonto.	all other optional parameters is not described (see EN 301 931-2)		
	an other optional parameters is not descr	1000 [14 001 001 2]	



NOTE: The ACM message is optional.

Figure 85: Number translation service flow with ContinueWithArgument operation

IIxx N_ 03	Other ref.:		
	Q.1601		
	EN 301 931-2		
TSS reference:	ISDN to ISDN/ Number translation services/Successful		
ISDN selection	Numb_Trans,		
criteria:			
Test purpose:	To verify that the Call is routed to a	translated Number with the Connect operation.	
	For routing of the call the called pa	rty number is derived from the	
	destinationRoutingAddress.		
PCO / PO	Initial Detection point		
ISUP/INAP Interface	Verify that the IUT can successfully	map the IAM parameter IAM_PAR_ID to the	
parameter	InitialDP parameter InitialIDP_PAR	_ID (see annex C).	
Values (note):	Connect Operation		
		map the Connect operation parameter	
	CONNECT_PAR_ID to the IAM_PA	AR_ID parameters of the IAM.	
	(See mapping table, annex C).		
		the originating user service information and are	
		Connect operation are treated according to the normal	
		on applies an ACM message is sent to the preceding	
	exchange.		
	The backward call indicators parameter in the ACM is encoded as defined in table 10		
	Sending of backward messages Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or		
	in-band information, progress), CON and ANM.		
	Receiving of Release message		
	Verify that the IUT can successfully release the call like an ordinary transit exchange.		
PCO / PO	Initial Detection point		
ISDN/INAP interface	Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP		
parameter	parameter InitialIDP_PAR_ID (see annex C).		
Values (note):	Sending of backward messages		
	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,		
	ALERTING, PROGRESS or CONNECT to the originating side.		
	Receiving of a Release message		
	Verify that the IUT can successfully	release the call.	
ISDN parameter	BC = BC_ID		
values:	Synchronous/ asynchronous mode: MODE		
	User rate: USER_RATE		
	LLC = BC_ID		
	Synchronous/ asynchronous mode: MODE		
	User rate: USER_RATE		
_	HLC = HLC_ID		
Comments:			



NOTE: The sending of the early ACM message is optional.

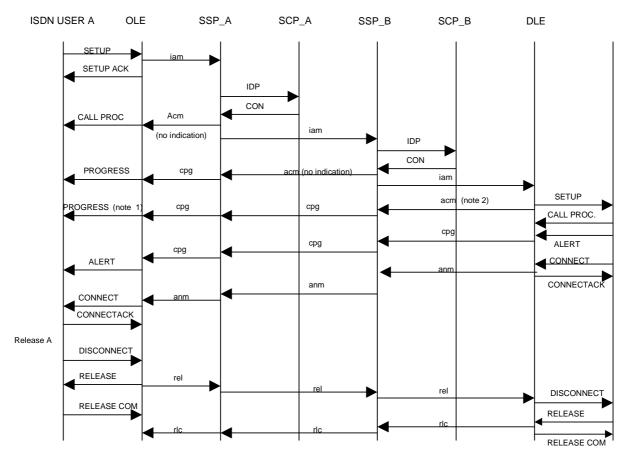
Figure 86: Number translation service flow with the Connect operation

Table 11: Backward call indicators parameter in the ACM

Charge indicator:	see clause 10.1.1.1.2 (SendChargingInformation operation)
Called party's status indicator:	00 (no indication)
Called party's category:	00 (no indication)
End-to-end method indicator:	00 (no end-to-end method available)
Interworking indicator:	0 (no interworking encountered)
End-to-end information indicator:	0 (no end-to-end information available)
ISDN User Part indicator:	1 (ISDN User Part used all the way)
Holding indicator:	national matter
ISDN access indicator:	1 (terminating access ISDN)
Echo Control device indicator:	see clause 2.7.1.2.2/Q.764 [82]
SCCP method indicator:	00 (no indication)

IIxx N04	Other ref.:		
	Q.1601		
	EN 301 931-2 clause 14.3		
TSS reference:	ISDN to ISDN/ Number translation services/Successful		
ISDN selection	Numb Trans.		
criteria:	ivuitip_fraits,		
Test purpose:	Verify that the Call is routed to the Called Party Number after the second stage Query.		
PCO / PO	Initial Detection point in IUT 1		
ISUP/INAP Interface	Verify that the IUT can successfully map the IAM parameter IAM_PAR_ID to the		
parameter	InitialDP parameter InitialIDP_PAR_ID (see annex C).		
Values ^{1):}	Connect Operation in IUT 1		
	Verify that the IUT can successfully map the Connect operation parameter		
	CONNECT_PAR_ID to the IAM_PAR_ID parameters of the IAM.		
	Parameters which were received in the originating user service information and are not		
	replaced by parameters of the Connect operation are treated according to the normal		
	call procedures. If Connect Operation applies an ACM message is sent to the preceding		
	exchange.		
	Initial Detection point in IUT 2		
	Verify that the IUT can successfully map the IAM parameter IAM_PAR_ID to the		
	InitialDP parameter InitialIDP_PAR_ID (see annex C).		
	Connect Operation in IUT 2		
	Verify that the IUT can successfully map the Connect operation parameter		
	CONNECT_PAR_ID to the IAM_PAR_ID parameters of the IAM.		
	Parameters which were received in the originating user service information and are not		
	replaced by parameters of the Connect operation are treated according to the normal		
	call procedures. If Connect Operation applies an ACM message is sent to the preceding		
	exchange.		
	Sending of backward messages Verify that the IUT 1 and IUT 2 can successfully map the backward messages ACM,		
	CPG (alerting or in-band information, progress), CON and ANM.		
	Receiving of Release message		
	Verify that the IUT can successfully release the call like an ordinary transit exchange.		
PCO / PO	Initial Detection point		
ISDN/INAP interface	Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP		
parameter	parameter InitialIDP_PAR_ID (see annex C).		
Values ^{2):}	Sending of backward messages		
	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,		
	ALERTING, PROGRESS or CONNECT to the originating side.		
	Receiving of a Release message		
	Verify that the IUT can successfully release the call.		
ISDN parameter	BC = BC_ID		
values:	Synchronous/ asynchronous mode: MODE		
	User rate: USER_RATE		
	LLC = BC_ID		
	Synchronous/ asynchronous mode: MODE		
	User rate: USER_RATE		
_	HLC = HLC_ID		
Comments:			





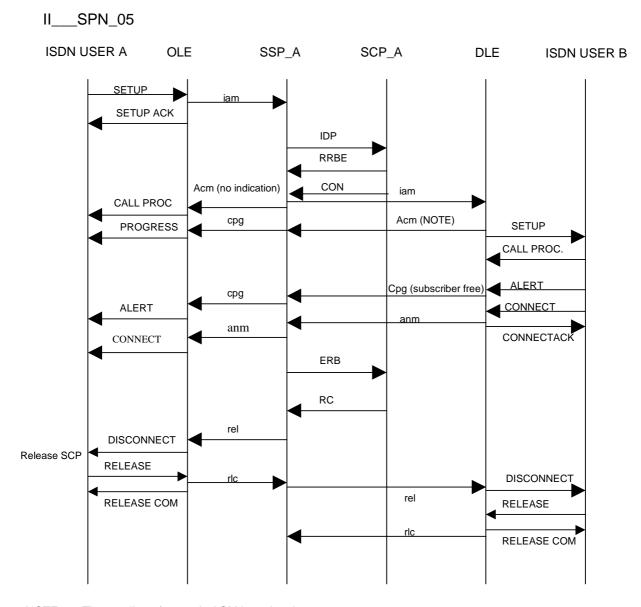
- NOTE 1: According to Q.699 the mapping of the contents in the CPG is only relevant if the information received in the message is different compared to earlier information.
- NOTE 2: The sending of the early ACM message is optional.

Figure 87: Number translation service flow with second stage Query

Table 12: Sending and mapping of backward messages

Messages ⇒ Received or messages to be send respectively	Call Proceeding	Alerting	Connect
Call Proceeding/ CONNECT not sent	Call Proceeding	Alerting	Connect
Call Proceeding sent, connect not sent	Progress	Alerting	Connect

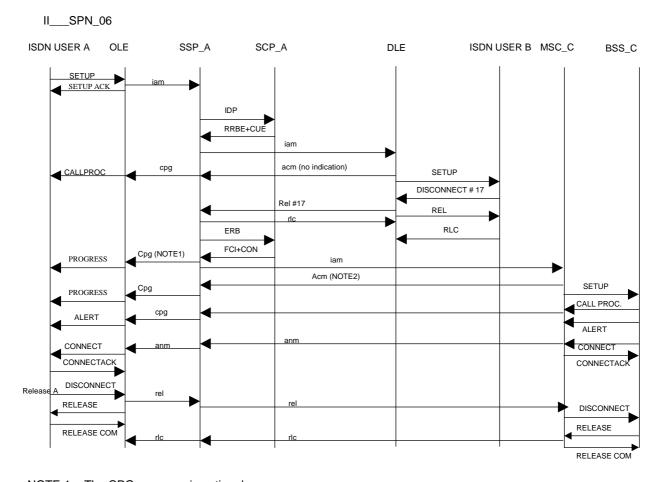
IIxx N05	Other ref.:	
xx.11_ 00	EN 301 931-2	
	GSM Association PRD IR.32	
	clause 2.2.4	
TSS reference:	ISDN to ISDN/Number translation services/Successful	
ISDN selection	Numb_Trans,	
criteria:	INUITID_TTAITS,	
Test purpose:	User A makes a call to user B. After the call establishment and the connection of 10 s	
Tool parpooe.	with user B, the Call is released from the SCP.	
PCO / PO	Initial Detection point	
ISUP/INAP Interface	No action.	
parameter	Connect Operation	
Values (note):	No action.	
	Sending of backward messages	
	No action.	
	Receiving of Release message	
	Verify that the IUT can successfully map the releaseCall Message and release the call	
	like an ordinary transit exchange.	
PCO / PO	Initial Detection point	
ISDN/INAP interface	Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP	
parameter	parameter InitialIDP_PAR_ID (see annex C).	
Values (note):	Sending of backward messages	
	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,	
	ALERTING, PROGRESS or CONNECT to the originating side.	
	Receiving of a Release message	
	Verify that the IUT can successfully release the call.	
ISDN parameter	$BC = BC_ID$	
values:	Synchronous/ asynchronous mode: MODE	
	User rate: USER_RATE	
	LLC = BC_ID	
	Synchronous/ asynchronous mode: MODE	
	User rate: USER_RATE	
	HLC = HLC_ID	
Comments:	Service logic	
	The SCF alters the destination address. SCF sends RRBE ([O_Answer,notify],	
	[O_Disc,interupted, legID=1], [O_Disc,interupted, legID=2]+CON. After reception of ERB	
	(O_Answer) SCF starts a timer of length 10 s. SCF sends RC after expiration of this	
	timer.	
Abbreviations:	RRBE: Request Report BCSM Event	
	CUE: Continue	
	ERB: Event Report BCSM	
	RC: Release Call	



NOTE: The sending of an early ACM is optional.

Figure 88: Number translation service flow, call establishment and release procedure from the SCP

II N. 00	Other wof .			
IIxx N_ 06	Other ref.:			
	Q.1601			
	EN 301 931-2			
	GSM Association PRD IR.32			
	clause 2.2.5.2			
TSS reference:	ISDN to ISDN/ Number translation	services/Successful		
ISDN selection	Numb_Trans,			
criteria:				
Test purpose:	User A makes a call to user B which and the Re-connection is triggered	n is "busy". The busy cause is received in the SSF on EDP_Busy.		
PCO / PO	Initial Detection point			
ISUP/INAP Interface	No action			
parameter	Continue Operation			
Values (note):	No action			
	Release Operation			
	An REL with cause value # 17 mes	sage is sent to the preceding exchange.		
	Connect Operation			
	Verify that the IUT can successfully	map the Connect operation parameter		
	CONNECT_PAR_ID to the IAM_PA	AR_ID parameters of the IAM.		
	Parameters which were received in	the originating user service information and are not		
		nect operation are treated according to the normal		
	call procedures.	·		
	Sending of backward messages			
	Verify that the IUT can successfully	map the backward messages ACM, CPG (alerting or		
	in-band information, progress), CON and ANM.			
	Receiving of Release message			
	Verify that the IUT can successfully map the Release Call Message and release the call			
	like an ordinary transit exchange.			
PCO / PO	Initial Detection point			
ISDN/INAP interface	Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP			
parameter	parameter InitialIDP_PAR_ID (see annex C).			
Values (note):	Sending of backward messages			
	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,			
	ALERTING, PROGRESS or CONNECT to the originating side.			
	Receiving of a Release message			
	Verify that the IUT can successfully	release the call.		
ISDN parameter	BC = BC_ID			
values:	synchronous/ asynchronous mo	de: MODE		
	user rate: USER_RATE			
	LLC = BC_ID			
	synchronous/ asynchronous mo	de: MODE		
	user rate: USER_RATE			
	HLC = HLC_ID			
Comments:	Service logic			
	The SCF alters the destination address and sends RRBE+CUE. When SCF has			
	received ERB, the SCF alters the destination address and establishes a reconnection.			
Abbreviations:	RRBE: Request Report BCSM E			
	CUE: Continue			
	ERB: Event Report BCSM			
	FCI: Furnish Charging Info			
	i. c rannon onarging into			

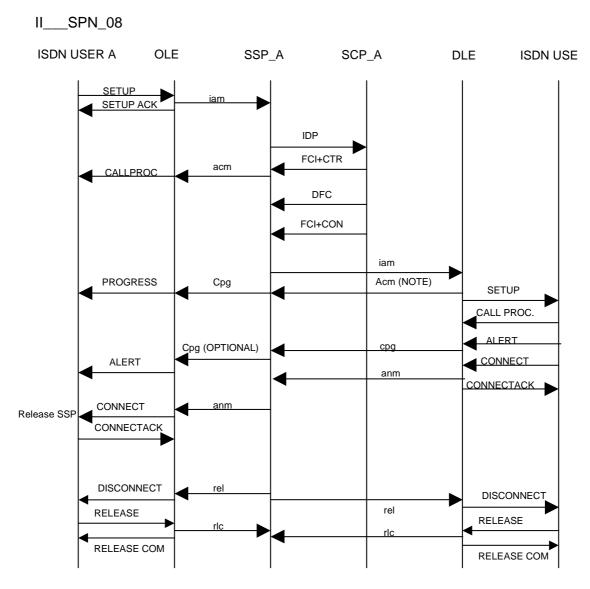


NOTE 1: The CPG message is optional. NOTE 2: The ACM message is optional.

Figure 89: Number translation service flow, User A makes a call to user B which is "busy". The busy cause is received in the SSF and the Re-connection is triggered on EDP_Busy

II xx N 07	Other ref.:	
IIXX IN_ 07	Q.1601	
TSS reference:	ISDN to ISDN/ Number translation services/Successful	
ISDN selection	Numb Trans,	ices/odccessidi
criteria:		
Test purpose:	User Δ makes a call to user B. SCP ins	tructs in the Connect Operation the SSP to
root purposo.	suppress announcements. Verify the ut	
	SuppressionOfAnnocement.	mzation of the parameter
PCO / PO	Initial Detection point	
ISUP/INAP Interface	No action	
parameter	Connect Operation	
Values (note):	Verify the utilization of the parameter So	uppressionOfAnnocement
, ,	Sending of backward messages	
	Verify that the IUT can successfully may	p the backward messages ACM, CPG (alerting or
	in-band information, progress), CON an	nd ANM.
PCO / PO	Initial Detection point	
ISDN/INAP interface	Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP	
parameter	parameter InitialIDP_PAR_ID (see annex C).	
Values (note):	Sending of backward messages	
	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,	
	ALERTING, PROGRESS or CONNECT to the originating side.	
	Receiving of a Release message	
	Verify that the IUT can successfully rele	ease the call.
ISDN parameter	BC = BC_ID	
values:	synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE	
	LLC = BC_ID	MODE
	synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE	
0	HLC = HLC_ID	
Comments:		

IIxx N08	Other ref.:	
IIXX IN 00	Q.1601	
TSS reference:	ISDN to ISDN/ Number translation services/Successful	
ISDN selection	Numb Trans,	
criteria:	INVITID_TTATIS,	
Test purpose:	User A makes a call to user B. The Announcement is charged with a different value	
rest pui pose.	compared to the established call. Verify the utilization of the parameter Furnish Charging	
	Info.	
PCO / PO	Initial Detection point	
ISUP/INAP Interface	No action	
parameter	Connect Operation	
Values (note):	No action	
	Sending of backward messages	
	No action	
PCO / PO	Initial Detection point	
ISDN/INAP interface	No action	
parameter	Sending of backward messages	
Values (note):	No action	
	Receiving of a Release message	
	No action	
ISDN parameter	BC = BC_ID	
values:	synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE	
	LLC = BC_ID	
	synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE	
Comments:	HLC = HLC_ID	
Abbreviations:	AC: ApplyCharging	
Abbreviations.	AC: ApplyCharging ACR: ApplyChargingReport.	
	CIReg: CallInformationRequest/	
	CIRep: CallInformationReport,	
	CTR: Connect to Resource	
	ERB: Event Report BCSM	
	FCI: Furnish Charging Info	
	SCI: SendChargingInfo,	
	RRBE: Request Report BCSM Event	
	RC: Release Call	
	1	



NOTE: The sending of the ACM message is optional.

Figure 90: Number translation service flow, correct reporting of Furnish Charging Info

7.3.2.2 Unsuccessful

Unsuccessful Number translation services

GGSP NU 01	Other ref.:	
	Q.1601	
TSS reference:	ISDN to ISDN/ Number translation	services/Unsuccessful
ISDN selection	Numb_Trans,	
criteria:		
Test purpose:	To verify that the Call is released in	nmediately and that no rerouting activity takes place if
	the SCP recognizes that a barred n	umber is dialled.
PCO / PO	Receiving of Release message	
ISUP/INAP Interface	Verify that the IUT can successfully	release the call like an ordinary transit exchange.
parameter		
Values ^{1):}		
PCO / PO	Receiving of a Release message	
ISDN/INAP interface	Verify that the IUT can successfully release the call.	
parameter		
Values ^{2):}		
ISDN parameter	BC = BC_ID	
values:	Synchronous/ asynchronous mo	ode: MODE
	user rate: USER_RATE	
	LLC = BC_ID	
	Synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE	
	HLC = HLC_ID	
Comments:		

Values for test purposes IIxx NU 01		
VA_01	BC_ID = speech	
	MODE: -	
	USER_RATE: -	
	LLC_ID = -	
	MODE: -	
	USER_RATE: -	
	HLC_ID = *	
VA_02	BC_ID = speech	
	MODE: -	
	USER_RATE: -	
	LLC_ID = -	
	MODE: -	
	USER_RATE: -	
	HLC_ID = Telephony	

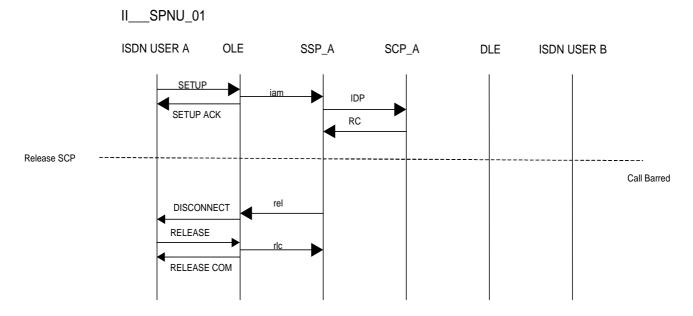


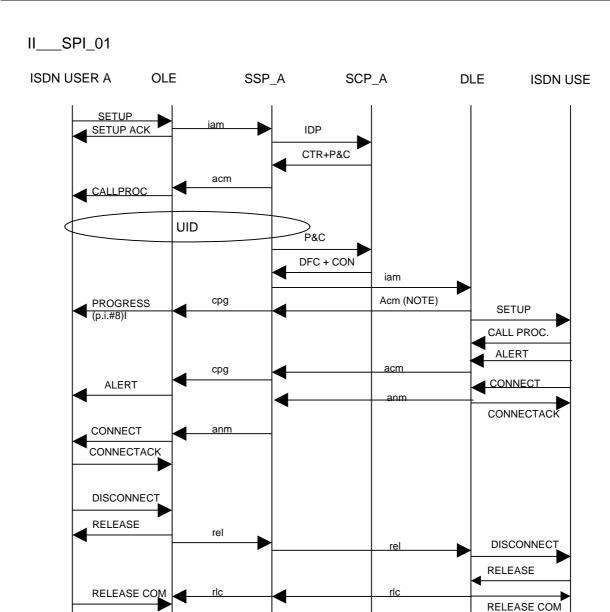
Figure 91: Unsuccessful number translation service flow, SCP recognizes that a barred number is dialled

7.3.3 Services with user interactive dialogue

7.3.3.1 Successful

IIxx I_ 01	Other ref.:	
	Q.1601 clause 10.1.5	
TSS reference:	ISDN to ISDN/ Services with user interactive dialogue/Successful	
ISDN selection	Numb_Trans, IN call with user interactive dialogue (in-band) SSP supports requested IP	
criteria:	capabilities, OLE supports UID capabilities	
Test purpose:		UID (user interactive dialogue) is performed at the
		ser is connected to the called party. The OLE
	supports UID capabilities.	
PCO / PO	Initial Detection point	
ISUP/INAP Interface	Verify that the IUT can successfully	map the IAM parameter IAM_PAR_ID to the
parameter	InitialDP parameter InitialIDP_PAR	_ID (see annex C).
Values (note):	ConnectToResource	
	Indicators indicating "in-band inform	g a ACM message with the Optional Backward Call mation or an appropriate pattern is now available after receiving the ConnectToResource message
		NAP serviceInteractionIndicatorsTwo and capabilities
		D action indicators parameter may be included in the
	a) Through-connection instruction	
		ct indicator in the serviceInteractionIndicatorsTwo
	capability indicators parameter modification possible) in the IA	esource operation was set to "required" and if an UID was received with bit A coded 1 (through-connection M, then the UID action indicators parameter shall be go with bit A coded (through-connect in both
	directions).	o with bit / t coded (timodgi) comicot in both
	b) T9 timer instruction	
	If the dialogue duration indicator in the serviceInteractionIndicatorsTwo parameter of the ConnectToResource operation was set to "long duration" and if an UID capability indicators parameter was received with bit B coded 1 (stopping of timer possible) in the IAM, then an UID action indicators parameter shall be included into	
	the ACM with bit B coded 1 (stop or do not start T9). If backward messages have already been sent to preceding exchange, then instead of ACM a CPG message is sent. The CPG message shall contain the UID action indicators parameter as described above for the ACM message.	
	Disconnect Forward Connection (DFC) Verify that the IUT can successfully release the "through –connect in-band info" after	
	receiving the Disconnect Forward Connection (DFC) message. Connect Operation	
	Initial address information is retained in memory to allow a call setup to a new destination after disconnecting the IP.	
	Verify that the IUT can successfully map the Connect operation parameter	
	CONNECT_PAR_ID to the IAM_PAR_ID parameters of the IAM.	
	Parameters which were received in the originating user service information and are not	
	replaced by parameters of the Connect operation are treated according to the normal	
	call procedures.	
	Sending of backward messages	4. 1. 1
		map the backward messages ACM, CPG (alerting or
	in-band information, progress), CON and ANM. Receiving of Release message	
	Verify that the IUT can successfully release the call like an ordinary transit exchange.	
PCO / PO	Initial Detection point	
ISDN/INAP interface	Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP	
parameter	parameter InitialIDP_PAR_ID (see annex C).	
Values (note):	Sending of backward messages	
	Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.	
	Receiving of a Release message	and and the self
	Verify that the IUT can successfully	release the call.

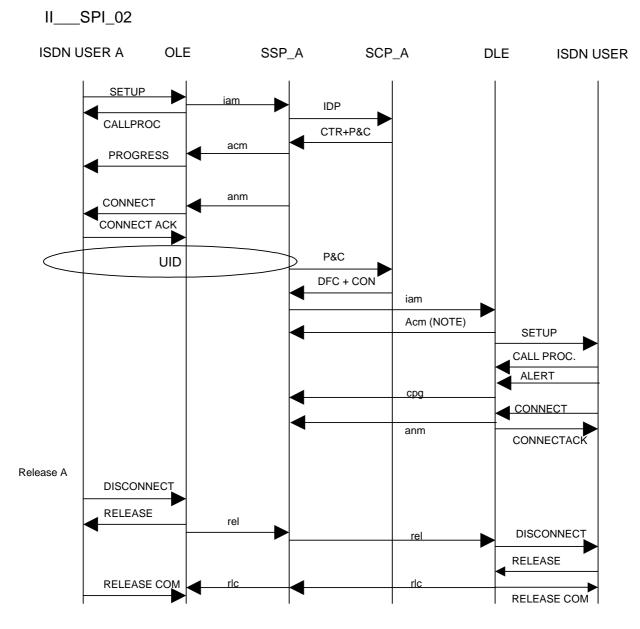
IIxx I_ 01	Other ref.:
	Q.1601 clause 10.1.5
ISDN parameter	BC = BC_ID
values:	Synchronous/ asynchronous mode: MODE User rate: USER_RATE LLC = BC_ID Synchronous/ asynchronous mode: MODE User rate: USER_RATE HLC = HLC ID
Comments:	



NOTE: The sending of the early ACM message is optional.

Figure 92: User interactive dialogue service, IN call with user interactive dialogue (in-band) SSP supports requested IP capabilities, OLE supports UID capabilities

IIxx I_ 02	Other ref.:			
T00	Q.1601 clause 10.1.5			
TSS reference:	ISDN to ISDN/ Services with user interactive dialogue /Successful			
ISDN selection	Numb_Trans, IN call with user interactive dialogue (in-band) SSP supports requested IP			
criteria:	capabilities, OLE does not support UID capabilities			
Test purpose:	User A makes a call to user B. The UID (user interactive dialogue) is performed at the			
	forwarding SC. After the UID the user is connected to the called party. The OLE does not			
D00 / D0	support UID capabilities.			
PCO / PO	Initial Detection point			
ISUP/INAP Interface	Verify that the IUT can successfully map the IAM parameter IAM_PAR_ID to the			
parameter Values (note):	InitialDP parameter InitialIDP_PAR_ID (see annex C). ConnectToResource			
values (note):	Verify that the IUT (SSP) is sending a ACM message with the Optional Backward Call			
	Indicators indicating "in-band information or an appropriate pattern is now available			
	(p.i.#8) or no indication.			
	Answer Message			
	When the IP answers, the sending of an ANM message depends on the following			
	conditions:			
	a) If the both way through-connect indicator in the serviceInteractionIndicatorsTwo			
	parameter of the ConnectToResource operation was set to "required" and if a			
	through-connection capability indicator set to "through-connection modification			
	possible" was not received in the IAM, then an ANM message is sent.			
	b) If the dialogue duration indicator in the serviceInteractionIndicatorsTwo parameter			
	of the ConnectToResource operation was set to "long duration" and if a T9 timer			
	indicator set to "stopping of timer possible" was not received in the IAM, then an			
	ANM message is sent.			
	If backward messages have already been sent to the preceding exchange, then instead			
	of ANM a different message may be sent.			
	NOTE: The sending of an ANM message may also be required, if a chargeable			
	announcement is to be connected. However, charging aspects are outside the			
	scope of ITU-T Recommendation Q.1601.			
	Disconnect Forward Connection (DFC)			
	Verify that the IUT can successfully release the "through -connect in-band info" after			
	receiving the Disconnect Forward Connection (DFC) message.			
	Connect Operation			
	Initial address information is retained in memory to allow a call setup to a new destination after disconnecting the IP.			
	Verify that the IUT can successfully map the Connect operation parameter			
	CONNECT_PAR_ID to the IAM_PAR_ID parameters of the IAM.			
	Parameters which were received in the originating user service information and are not			
	replaced by parameters of the Connect operation are treated according to the normal			
	call procedures.			
	Sending of backward messages			
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or			
	in-band information, progress), CON and ANM.			
	Receiving of Release message			
	Verify that the IUT can successfully release the call like an ordinary transit exchange.			
PCO / PO	Initial Detection point			
ISDN/INAP interface	Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP			
parameter	parameter InitialIDP_PAR_ID (see annex C).			
Values (note):	Sending of backward messages			
	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,			
	ALERTING, PROGRESS or CONNECT to the originating side.			
	Receiving of a Release message			
IODN	Verify that the IUT can successfully release the call.			
ISDN parameter	BC = BC_ID			
values:	synchronous/ asynchronous mode: MODE			
	user rate: USER_RATE			
	LLC = BC_ID			
	synchronous/ asynchronous mode: MODE			
	user rate: USER_RATE			
Commonto	HLC = HLC_ID			
Comments:				
	1			



NOTE: The sending of the ACM message is optional.

Figure 93: User interactive dialogue service, IN call with user interactive dialogue (in-band) SSP supports requested IP capabilities, OLE does not support UID capabilities

IIxx I_ 03	Other ref.:		
11XX 1_ 05	Q.1601; clauses 10.1.1.1.1 and		
	10.1.5.2.1.1.1		
TSS reference:	ISDN to ISDN/ Services with user interactive dialogue/Successful		
ISDN selection	Numb_Trans, IN call with user interactive dialogue (in-band) Assist method; procedure in		
criteria:	initiating SSP		
Test purpose:	User A makes a call to user B. On receipt of the EstablishTemporaryConnection		
rest purpose.	operation from the SCP a connection to an external IP will be established.		
	After the UID the user is connected to the called party.		
PCO / PO	Initial Detection point		
ISUP/INAP Interface	Verify that the IUT can successfully map the IAM parameter IAM_PAR_ID to the		
parameter	InitialDP parameter InitialIDP_PAR_ID (see annex C).		
Values (note):	Establish Temporary Connection		
, ,	On receipt of the EstablishTemporaryConnection operation from the SCP a connection		
	to an external IP will be established, if the TMR value received in the IAM message is set		
	to either "speech" or "3,1 kHz audio" or "64 kbit/s unrestricted preferred".		
	The IAM message for setup of the temporary connection is newly generated as in an		
	originating local exchange.		
	For routing of the call the called party number is derived from the		
	assistingSSPIPRoutingAddress.		
	Verify that the IUT can successfully map the parameters received in the		
	EstablishTemporaryConnection operation to parameters sent in the IAM message		
	in table 12.		
	Except the called party number parameter the remaining mandatory parameters of the		
	IAM message are set as defined in table 13.		
	Verify that the IUT can successfully map the Disconnect Forward Connection (DFC)		
	message to a RELEASE message on the ISUP.		
	On sending of the IAM an ACM message is sent to the preceding exchange encoded as		
	described in Q.1601 clause 10.1.1.		
	Connect Operation		
	Initial address information is retained in memory to allow a call setup to a new		
	destination after disconnecting the SRF. Verify that the IUT can successfully map the Connect operation parameter		
	CONNECT_PAR_ID to the IAM_PAR_ID parameters of the IAM.		
	Parameters which were received in the originating user service information and are not		
	replaced by parameters of the Connect operation are treated according to the normal		
	call procedures.		
	The REL message sent in forward direction contains cause value #31.		
	Sending of backward messages		
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or		
	in-band information, progress), CON and ANM.		
	Receiving of Release message		
	Verify that the IUT can successfully release the call like an ordinary transit exchange.		
PCO / PO	Initial Detection point		
ISDN/INAP interface	Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP		
parameter	parameter InitialIDP_PAR_ID (see annex C).		
Values (note):	Sending of backward messages		
	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,		
	ALERTING, PROGRESS or CONNECT to the originating side.		
	Receiving of a Release message		
ICDN marrows (Verify that the IUT can successfully release the call.		
ISDN parameter	GSM-BC = GSM-BC_ID		
values:	Synchronous/ asynchronous mode: MODE		
	User rate: USER_RATE		
	LLC = BC_ID Synchronous/asynchronous mode: MODE		
	Synchronous/ asynchronous mode: MODE User rate: USER_RATE		
	HLC = HLC_ID		
Comments:			
Comments.			
	<u>I</u>		

II___SPI_03

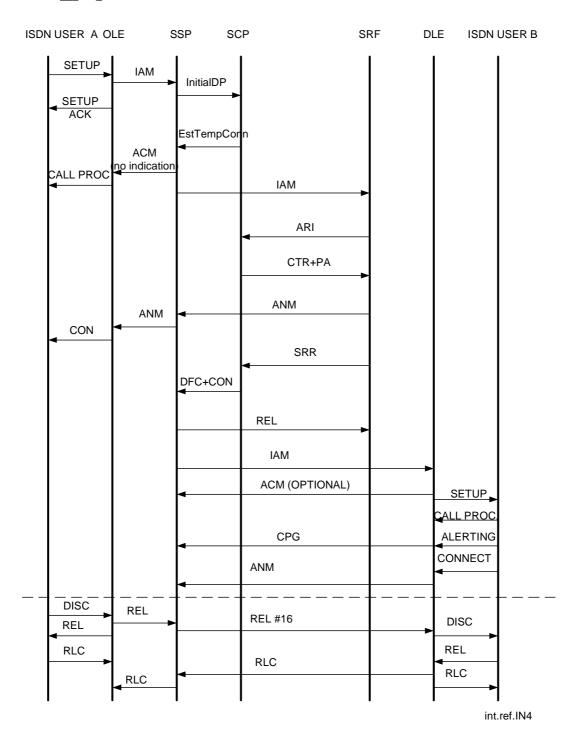


Figure 94: User interactive dialogue service, IN call with user interactive dialogue (in-band) SSP supports requested IP capabilities, OLE does not support UID capabilities ACM not sent

Table 13: Mapping of parameters from EstablishTemporaryConnection to IAM

INAP operation	ISUP message	
EstablishTemporaryConnection (Note)	IAM	
AssistingSSPIPRoutingAddress	Called party number	
ServiceInteractionIndicatorsTwo	See clause 10.1.1.1.1.4 (Mapping of the INAP serviceInteractionIndicatorsTwo)	
CorrelationID	Correlation id	
ScfID	SCF id	
NOTE: Optional parameters may be absent, i.e. they are only mapped, if received.		

Table 14: Mandatory parameters of the IAM message

a) Nature of connection indicators:		
Satellite indicator:	set as in an OLE	
Continuity check indicator:	set as in an OLE	
Echo control device indicator:	set as in an OLE	
b) Forward call indicators:		
National/international call indicator:	set as in an OLE	
End-to-end method indicator:	00 (no end-to-end method available)	
Interworking indicator:	0 (no interworking encountered)	
End-to-end information indicator:	0 (no end-to-end information available)	
ISDN user part indicator:	1 (ISDN user part used all the way)	
ISDN user part preference indicator:	10 (ISDN user part required all the way)	
ISDN access indicator:	0 (originating access non-ISDN)	
SCCP method indicator:	00 (no indication)	
c) Calling party's category:		
00001010 (ordinary subscriber).		
d) Transmission medium requirement:		
	00000011 (3,1 kHz audio).	

IIxx I_ 04	Other ref.:	
	Q.1601 clause 10.1.5	
TSS reference:	ISDN to ISDN/ Services with user interactive dialogue /Successful	
ISDN selection	Numb_Trans, IN call with user interactive dialogue (in-band) Assist method; procedure in	
criteria:	assisting SSP	
Test purpose:	User A makes a call to user B. The call will be routed to an IP, an AssistReqInstructions	
	operation is sent from the SSF to the SCF.	
	After the UID the call is released from the SCP.	
PCO / PO	AssistRequestInstructions operation	
ISUP/INAP Interface	If an IAM is received in a SSP and the call is recognized as a call which is to be routed to	
parameter	an IP, an AssistReqInstructions operation is sent from the SSF to the SCF. The mapping	
Values (note):	of parameters is shown in table 14.	
	ConnectToResource operation	
	When the IP answers, the sending of an ANM message depends on the following	
	conditions:	
	If the both way through-connect indicator in the serviceInteractionIndicatorsTwo parameter of the ConnectToResource operation was set to "required" and if a through-connection capability indicator set to "through-connection modification possible" was not received in the IAM, then an ANM message is sent.	
	b) If the dialogue duration indicator in the serviceInteractionIndicatorsTwo parameter of the ConnectToResource operation was set to "long duration" and if a T9 timer indicator set to "stopping of timer possible" was not received in the IAM, then an ANM message is sent.	
	If backward messages have already been sent to the preceding exchange, then instead of ANM a different message may be sent.	
	NOTE: The sending of an ANM message may also be required, if a chargeable announcement is to be connected.	
	Receiving of Release message	
	Verify that the IUT can successfully release the call like an ordinary transit exchange.	

IIxx I_ 04	Other ref.:		
	Q.1601 clause 10.1.5		
PCO / PO	Initial Detection point		
ISDN/INAP interface	Verify that the IUT can successfully	map the SETUP_PAR_ID parameter to the InitialDP	
parameter	parameter InitialIDP_PAR_ID (see	annex C).	
Values (note):	Sending of backward messages		
	Verify that the IUT can successfully	map the backward messages CALL PROCEEDING,	
	ALERTING, PROGRESS or CONN	ECT to the originating side.	
	Receiving of a Release message		
	Verify that the IUT can successfully	release the call.	
ISDN parameter	BC = BC_ID		
values:	Synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	LLC = BC_ID		
	Synchronous/ asynchronous mo	ode: MODE	
	user rate: USER_RATE		
	HLC = HLC_ID		
Comments:			

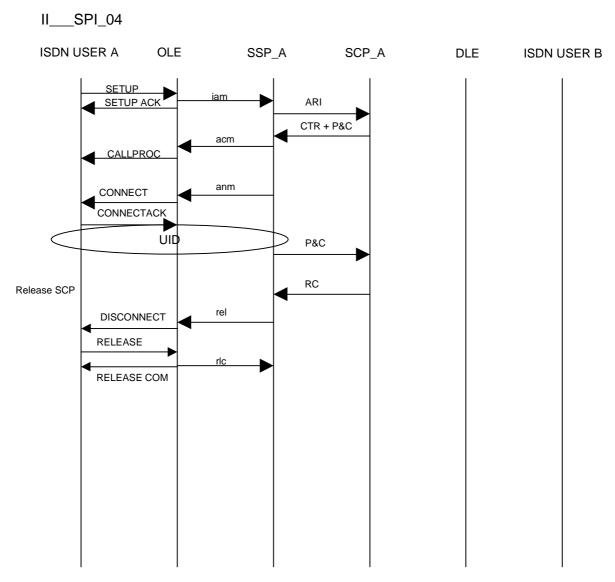


Figure 95: User interactive dialogue service, IN call with user interactive dialogue (in-band)
Assist method; procedure in initiating SSP; an AssistReqInstructions operation
is sent from the SSF to the SCF

Table 15: Mapping of parameters from IAM to AssistRequestInstruction

ISUP message	INAP operation
IAM	AssistRequestInstruction
Correlation id	CorrelationID

	Values for test purposes IIxx I_ 01 to IIxx I_ 04
VA_01	BC_ID = speech
	MODE: -
	USER_RATE: -
	LLC_ID = -
	MODE: -
	USER_RATE: -
	HLC_ID = *
VA_02	BC_ID = speech
	MODE: -
	USER_RATE: -
	LLC_ID = -
	MODE: -
	USER_RATE: -
	HLC_ID = Telephony

Table 16: Sending of backward messages - ISUP

Message received or message to be sent, → respectively ↓ Messages already sent	ACM	CPG "alerting" or "in-band information or an"	CPG "progress"	CON	ANM
ACM/CON not sent	ACM (note 1)	Not relevant	Not relevant	CON (note 1)	Not relevant
ACM sent, ANM not sent	CPG (note 1)	CPG	CPG	ANM (note 1)	ANM
ANM/CON sent for previous connection, but ANM/CON not received for actual connection	CPG "progress" (notes 1 and 2)		CPG "progress"	CPG "progress" (notes 1 and 2)	CPG "progress" (note 2)
ANM/CON sent for previous connection and ANM/CON received for actual connection	Not relevant	Not relevant	CPG "progress"	Not relevant	Not relevant

NOTE 1: If a serviceInteractionIndicatorsTwo parameter was provided in the INAP operation, this message carries the corresponding ISUP parameters, if applicable.

NOTE 2: An originating local exchange will discard this CPG message since no generic notification parameter is

contained in the message.

7.3.3.2 Unsuccessful

Unsuccessful

Services with user interactive dialogue

IIxxIU 01	Other ref.:		
	Q.1601 clause 10.1.5		
TSS reference:	ISDN to ISDN/ Services with user interactive dialogue/Unsuccessful		
ISDN selection	Numb_Trans,		
criteria:			
Test purpose:	Verify that on receipt of the Connec	tToResource operation the call is released using the	
	cause value #65 if other TMR value	es received in the IAM message, than "speech" or "3,1	
	kHz audio" or "64 kbit/s unrestricted	d preferred" are received.	
PCO / PO	Initial Detection point		
ISUP/INAP Interface	Verify that the IUT can successfully	map the IAM parameter IAM_PAR_ID to the	
parameter	InitialDP parameter InitialIDP_PAR_ID (see annex C).		
Values (note):	Receiving of Release message		
	Verify that the IUT can successfully	release the call like an ordinary transit exchange.	
PCO / PO	Initial Detection point		
ISDN/INAP interface	Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP		
parameter	parameter InitialIDP_PAR_ID (see annex C).		
Values (note):	Receiving of a Release message		
	Verify that the IUT can successfully	release the call.	
ISDN parameter	BC = BC_ID		
values:	Synchronous/ asynchronous mode: MODE		
	User rate: USER_RATE		
	LLC = BC_ID		
	Synchronous/ asynchronous mo	ode: MODE	
	User rate: USER_RATE		
	HLC = HLC_ID		
Comments:			



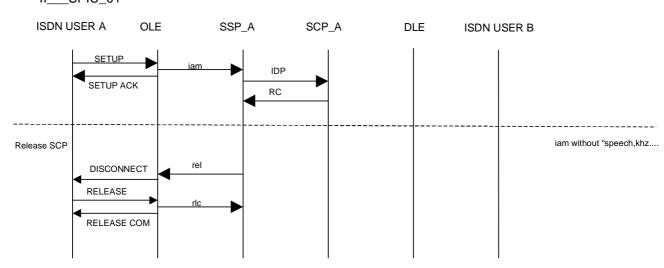


Figure 96: Unsuccessful user interactive dialogue service, call is released using the cause value #65 if other TMR values received in the IAM message than "speech" or "3,1 kHz audio" or "64 kbit/s unrestricted preferred" are received

7.3.4 Supplementary Services

II xx NS CLIP 01	Other ref.:		
	Q.1601 clause 10.1.1.1.1		
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/CLIP		
ISDN selection	Numb Trans,		
criteria:			
Test purpose:	Ensure that the Calling party number and the Generic Number provided by the OLE, are correctly delivered to the called (served) user if no callingPartyNumber or		
	genericNumber has been received in the Connect operation.		
PCO / PO	Initial Detection point		
ISUP/INAP Interface	Verify that the IUT can successfully map the IAM IE Calling party number and Generic		
parameter	number to the InitialDP parameters callingPartyNumber and genericNumber.		
Values (note):	No action		
	Connect Operation / Continue operation		
	No callingPartyNumber or genericNumber has been received in the Connect operation		
	Sending of backward messages		
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or		
	in-band information, progress), CON and ANM.		
	Receiving of Release message		
	Verify that the IUT can successfully release the call like an ordinary transit exchange.		
PCO / PO	Initial Detection point		
ISDN/INAP interface	No action		
parameter	Sending of backward messages		
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.		
	Receiving of a Release message		
	Verify that the IUT can successfully release the call.		
ISDN parameter	BC = BC_ID		
values:	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	LLC = BC_ID		
	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
Comments:	HLC = HLC_ID		
Comments.			

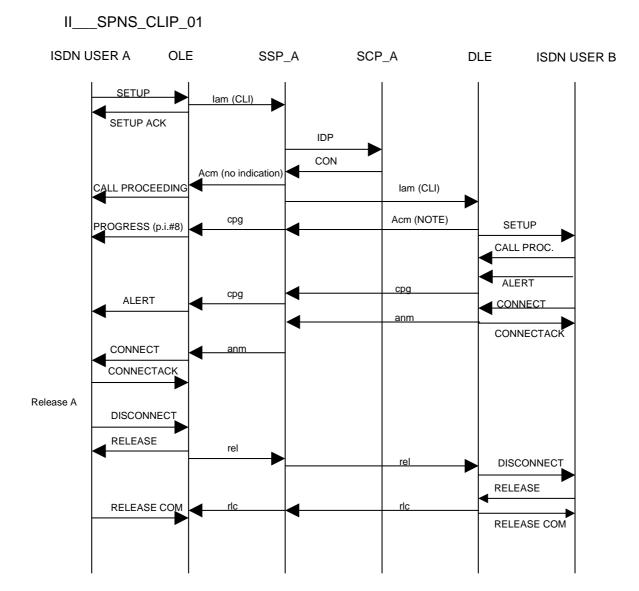


Figure 97: Number translation services; Supplementary Services; CLIP

IIxx NS CLIP 02	Other ref.: EN 301 931-2		
	clause 12.137 (IN CS 3)		
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/CLIP		
ISDN selection criteria:	Numb_Trans,		
Test purpose:	Ensure that, the IUT can successfully map calling party restriction indicator 'no IN impact' received in the INAP serviceInteractionIndicatorsTwo (ForwardServiceInteractionInd/callingPartyRestrictionIndicator) to the then calling party number address presentation restricted indicator "presentation allowed" parameter. The Calling party number provided by the OLE is correctly delivered to the called (served) user.		
PCO / PO	Initial Detection point		
ISUP/INAP Interface	No action		
parameter	Connect Operation / Continue operation		
Values (note):	Verify that the IUT can successfully map calling party restriction indicator 'no IN impact' received in the INAP serviceInteractionIndicatorsTwo, to the then calling party number address presentation restricted indicator "presentation allowed" parameter. Sending of backward messages Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or in-band information, progress), CON and ANM. Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.		
PCO / PO	Initial Detection point		
ISDN/INAP interface parameter	No action		
Values (note):	Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message		
	Verify that the IUT can successfully release the call.		
ISDN parameter values:	BC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID		
Comments:			

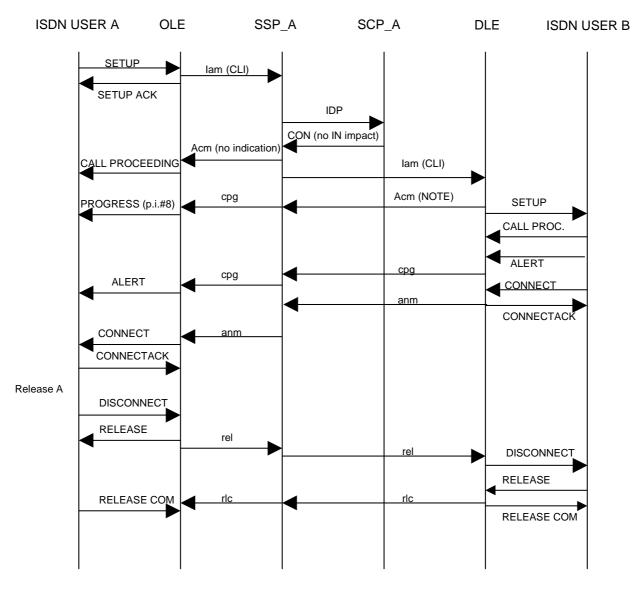


Figure 98: Number translation services; Supplementary Services CLIP; 'no IN impact' received in the INAP serviceInteractionIndicatorsTwo

TSS reference: ISDN to ISDN/ Number translation services/Supplementary Services/CLIR Numb_Trans, criteria: Test purpose: Ensure that when the Calling party number and the Generic Number with the calling party restriction indicator "presentation restricted" are provided by the OLE, the Calling party number information element is delivered to the called user without any digit information if no callingPartyNumber or genericNumber has been received in the Connect operation. PCO / PO ISUP/INAP Interface parameter Values (note): Verify that the IUT can successfully map calling party restriction indicator "presentation restricted" received in the serviceInteractionIndicatorsTwo, to the then calling party number address presentation restricted indicator 'presentation restricted' parameter. Sending of backward messages Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or in-band information, progress), CON and ANM. Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange. PCO / PO ISDN/INAP interface parameter Values (note): Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message Verify that the IUT can successfully release the call. ISDN parameter values: Synchronous/asynchronous mode: MODE user rate: USER_RATE LLC = BC_ID synchronous/asynchronous mode: MODE user rate: USER_RATE LLC = HLC_ID Comments:	II xx NS CLIR 01	Other ref.:
TSS reference: ISDN selection criteria: Test purpose: Ensure that when the Calling party number and the Generic Number with the calling party restriction indicator "presentation restricted" are provided by the OLE, the Calling party number information element is delivered to the called user without any digit information if no callingPartyNumber or genericNumber has been received in the Connect operation. PCO / PO ISUP/INAP Interface parameter Values (note): Initial Detection point No action Connect Operation / Continue operation Verify that the IUT can successfully map calling party restriction indicator "presentation restricted" received in the serviceInteractionIndicatorsTwo, to the then calling party number address presentation restricted indicator 'presentation restricted' parameter. Sending of backward messages Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or in-band information, progress), CON and ANM. Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange. Initial Detection point No action Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message Verify that the IUT can successfully release the call. BC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = BL_ID_ID	IIXX 140 OEII(01	
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Test purpose: Ensure that when the Calling party number and the Generic Number with the calling party restriction indicator "presentation restricted" are provided by the OLE, the Calling party number information element is delivered to the called user without any digit information if no callingPartyNumber or genericNumber has been received in the Connect operation. Initial Detection point No action Connect Operation / Continue operation Verify that the IUT can successfully map calling party restriction indicator "presentation restricted" received in the serviceInteractionIndicatorsTwo, to the then calling party number address presentation restricted indicator 'presentation restricted' received in the serviceInteractionIndicatorsTwo, to the then calling party number address presentation restricted indicator 'presentation restricted' parameter. Sending of backward messages Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or in-band information, progress), CON and ANM. Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange. Initial Detection point No action Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message Verify that the IUT can successfully release the call. BC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = HLC_ID		· · · ·
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Sending of backward messages Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or in-band information, progress), CON and ANM. Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange. PCO / PO ISDN/INAP interface parameter Values (note): Initial Detection point No action Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message Verify that the IUT can successfully release the call. ISDN parameter values: BC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID		
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in-band information, progress), CON and ANM. Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange. PCO / PO ISDN/INAP interface parameter Values (note): Verify that the IUT can successfully map the backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message Verify that the IUT can successfully release the call. ISDN parameter values: BC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID		
Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange. PCO / PO ISDN/INAP interface parameter Values (note): Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message Verify that the IUT can successfully release the call. ISDN parameter values: BC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID		
Verify that the IUT can successfully release the call like an ordinary transit exchange. PCO / PO ISDN/INAP interface parameter Values (note): Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message Verify that the IUT can successfully release the call. ISDN parameter values: BC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID		
ISDN/INAP interface parameter Values (note): No action Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message Verify that the IUT can successfully release the call. ISDN parameter values: BC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID		
parameter Values (note): Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message Verify that the IUT can successfully release the call. ISDN parameter values: BC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID	PCO / PO	Initial Detection point
Values (note): Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message Verify that the IUT can successfully release the call. BC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID	ISDN/INAP interface	No action
ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message Verify that the IUT can successfully release the call. BC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID	•	
Receiving of a Release message Verify that the IUT can successfully release the call. ISDN parameter values: BC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID	Values (note):	
Verify that the IUT can successfully release the call. ISDN parameter values: BC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID		
ISDN parameter values: BC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID		
synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID		
user rate: USER_RATE LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID	<u> </u>	
LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID	values:	
synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID		
user rate: USER_RATE HLC = HLC_ID		
HLC = HLC_ID		
Comments:	0	TILC = TILC_ID
	Comments:	

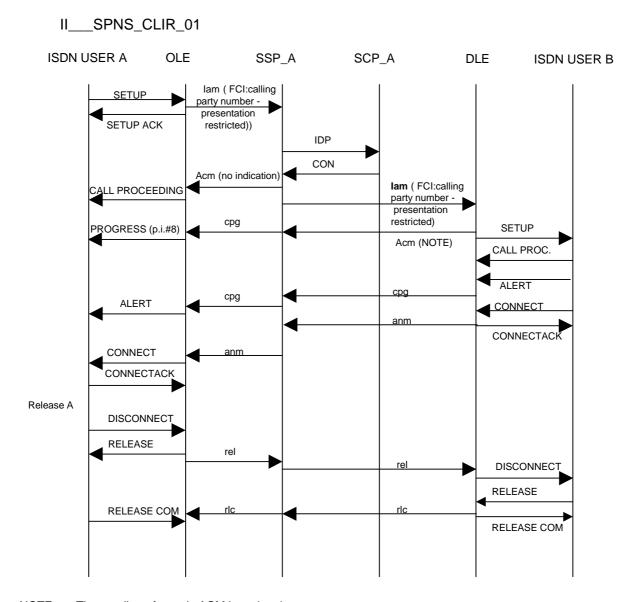


Figure 99: Number translation services; Supplementary Services CLIR; "presentation restricted" received in the serviceInteractionIndicatorsTwo

the IUT can successfully map calling party restriction indicator "presentation restricted" received in the INAP serviceInteractionIndicatorsTwo (ForwardServiceInteractionInd/callingPartyRestrictionIndicator), to the calling party number address presentation restricted indicator 'presentation restricted' parameter. PCO / PO	IIxx NS CLIR 02	Other ref.:
Numb_Trans,	TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/CLIR
Test purpose: Ensure that when Calling party number is provided by the OLE, the Calling party number information element is delivered to the called user without any digit information in the IUT can successfully map calling party restriction indicator "presentation restricted" received in the INAP serviceInteractionIndicatorsTwo (ForwardServiceInteractionInd/callingPartyRestrictionIndicator), to the calling party number address presentation restricted indicator 'presentation restricted' parameter. PCO / PO Initial Detection point No action Connect Operation / Continue operation Verify that the IUT can successfully map the calling party restriction indicator "presentation restricted" received in the INAP serviceInteractionIndicatorsTwo, to the then calling party number address presentation restricted indicator 'presentation restricted' parameter. Sending of backward messages Verify that the IUT can successfully map the backward messages ACM, CPG (alerting on in-band information, progress), CON and ANM. Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange. PCO / PO Initial Detection point No action	ISDN selection	Numb_Trans,
number information element is delivered to the called user without any digit information in the IUT can successfully map calling party restriction indicator "presentation restricted" received in the INAP serviceInteractionIndicatorsTwo (ForwardServiceInteractionInd/callingPartyRestrictionIndicator), to the calling party number address presentation restricted indicator 'presentation restricted' parameter. PCO / PO ISUP/INAP Interface parameter Values (note): Initial Detection point No action Connect Operation / Continue operation Verify that the IUT can successfully map the calling party restriction indicator "presentation restricted" received in the INAP serviceInteractionIndicatorsTwo, to the then calling party number address presentation restricted indicator 'presentation restricted' parameter. Sending of backward messages Verify that the IUT can successfully map the backward messages ACM, CPG (alerting of in-band information, progress), CON and ANM. Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange. PCO / PO Initial Detection point No action	criteria:	
ISUP/INAP Interface parameter Values (note): Verify that the IUT can successfully map the calling party restriction indicator "presentation restricted" received in the INAP serviceInteractionIndicatorsTwo, to the then calling party number address presentation restricted indicator 'presentation restricted' parameter. Sending of backward messages Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or in-band information, progress), CON and ANM. Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange. PCO / PO Initial Detection point No action		number information element is delivered to the called user without any digit information if the IUT can successfully map calling party restriction indicator "presentation restricted" received in the INAP serviceInteractionIndicatorsTwo (ForwardServiceInteractionInd/callingPartyRestrictionIndicator), to the calling party number address presentation restricted indicator 'presentation restricted' parameter.
Parameter Values (note): Connect Operation / Continue operation Verify that the IUT can successfully map the calling party restriction indicator "presentation restricted" received in the INAP serviceInteractionIndicatorsTwo, to the then calling party number address presentation restricted indicator 'presentation restricted' parameter. Sending of backward messages Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or in-band information, progress), CON and ANM. Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange. PCO / PO Initial Detection point No action		·
Verify that the IUT can successfully map the calling party restriction indicator "presentation restricted" received in the INAP serviceInteractionIndicatorsTwo, to the then calling party number address presentation restricted indicator 'presentation restricted' parameter. Sending of backward messages Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or in-band information, progress), CON and ANM. Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange. PCO / PO ISDN/INAP interface No action		
"presentation restricted" received in the INAP serviceInteractionIndicatorsTwo, to the then calling party number address presentation restricted indicator 'presentation restricted' parameter. Sending of backward messages Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or in-band information, progress), CON and ANM. Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange. PCO / PO ISDN/INAP interface Initial Detection point No action		
ISDN/INAP interface No action	Values (note):	"presentation restricted" received in the INAP serviceInteractionIndicatorsTwo, to the then calling party number address presentation restricted indicator 'presentation restricted' parameter. Sending of backward messages Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or in-band information, progress), CON and ANM. Receiving of Release message
	PCO / PO	
parameter Sending of backward messages	ISDN/INAP interface	
		Sending of backward messages
Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message Verify that the IUT can successfully release the call.	Values (note):	Receiving of a Release message
ISDN parameter BC = BC_ID	ISDN parameter	
synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID		user rate: USER_RATE LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE
Comments:	Comments:	

II___SPNS_CLIR_02 ISDN USER A OLE SSP_A SCP_A DLE ISDN USER B lam (CLI:calling **SETUP** party number presentation SETUP ACK allowed) IDP CON Acm (no indication) (presentation lam (FCI:calling LL PROCEEDING party number presentation restricted) restricted) cpg **SETUP** PROGRESS (p.i.#8) Acm (NOTE) CALL PROC. ALERT cpq cpg **ALERT** CONNECT anm CONNECTACK CONNECT anm CONNECTACK Release A DISCONNECT RELEASE rel rel DISCONNECT RELEASE rlc RELEASE COM rlc RELEASE COM

Figure 100: Number translation services; Supplementary Services CLIR

II xx NS CLIR 03	Other ref.:
IIXX INO OLIIV OO	Q.1601
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/CLIP
ISDN selection	Numb_Trans,
criteria:	
Test purpose:	Ensure that when Calling party number is provided by OLE with calling party restriction
	indicator "presentation restricted", the Calling party number information element is
	delivered to the called user without any digit information
	if the IUT can successfully map calling party restriction indicator 'no IN impact' received
	in the INAP serviceInteractionIndicatorsTwo (ForwardServiceInteractionInd/callingPartyRestrictionIndicator), to the calling party number address presentation
	restricted indicator "presentation allowed" parameter.
PCO / PO	Initial Detection point
ISUP/INAP Interface	No action
parameter	Connect Operation / Continue operation
Values (note):	Verify that the IUT can successfully map calling party restriction indicator "presentation
, ,	restricted" received in the INAP serviceInteractionIndicatorsTwo, to the then calling party
	number address presentation restricted indicator 'presentation restricted' parameter.
	Sending of backward messages
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or
	in-band information, progress), CON and ANM.
	Receiving of Release message
PCO / PO	Verify that the IUT can successfully release the call like an ordinary transit exchange. Initial Detection point
ISDN/INAP interface	No action
parameter	Sending of backward messages
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,
Values (Hote).	ALERTING, PROGRESS or CONNECT to the originating side.
	Receiving of a Release message
	Verify that the IUT can successfully release the call.
ISDN parameter	BC = BC_ID
values:	synchronous/ asynchronous mode: MODE
	user rate: USER_RATE
	LLC = BC_ID
	synchronous/ asynchronous mode: MODE
	user rate: USER_RATE
Comments:	HLC = HLC_ID
Comments:	

II___SPNS_CLIR_03

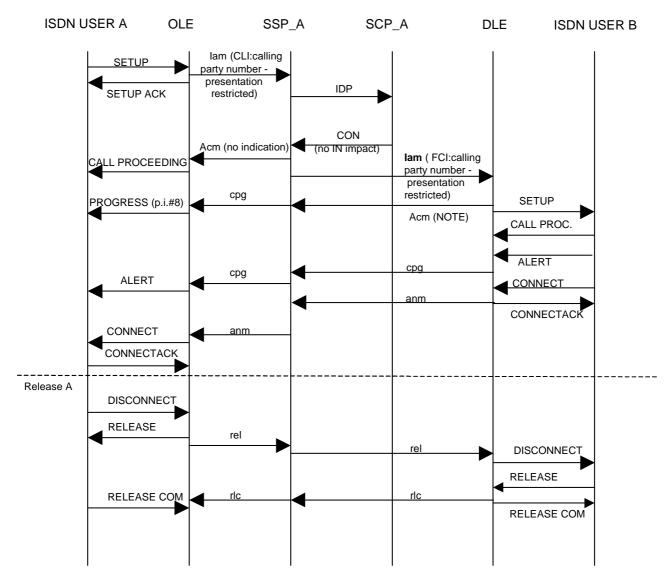


Figure 101: Number translation services; Supplementary Services CLIR; Calling party number is provided by OLE with calling party restriction indicator "presentation restricted", the Calling party number information element is delivered to the called user without any digit information, 'no IN impact' was received in the INAP serviceInteractionIndicatorsTwo

IIxx NS	Other ref.:
COLP 01	Q.1601 clause 12.5.1
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/COLP
ISDN selection	Numb_Trans,
criteria:	
Test purpose:	Verify that if 'no IN impact' was received in the serviceInteractionIndicatorsTwo (connected number treatment indicator), then a connected number parameter and a generic number parameter 'additional connected number' are passed on unchanged. Verify that the Connected number information element is provided and correctly delivered to the calling (served) user.
PCO / PO	Initial Detection point
ISUP/INAP Interface	No action
parameter	Connect Operation / Continue operation
Values (note):	If 'no IN impact' was received in the serviceInteractionIndicatorsTwo (connected number treatment indicator), then a connected number parameter and a generic number parameter 'additional connected number' are passed on unchanged. Sending of backward messages
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or in-band information, progress), CON and ANM.
	Receiving of Release message
	Verify that the IUT can successfully release the call like an ordinary transit exchange.
PCO / PO	Initial Detection point
ISDN/INAP interface	No action
parameter	Sending of backward messages
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Verify that the Connected number information element is provided and correctly delivered to the calling (served) user.
	Receiving of a Release message
	Verify that the IUT can successfully release the call.
ISDN parameter	BC = BC ID
values:	synchronous/ asynchronous mode: MODE user rate: USER_RATE
	LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE
	HLC = HLC_ID
Comments:	
<u> </u>	

II___SPNS_COLP_01 ISDN USER A OLE SSP_A SCP_A DLE ISDN USER B SETUP lam (OFCI:COL requested) SETUP ACK IDP CON (no IN impact) Acm (no indication) CALL PROCEEDING lam (OFCI:COL request cpg SETUP PROGRESS (p.i.#8) CALL PROC. Acm (NOTE) ALERT cpg cpg ALERT CONNECT anm CONNECTACK CONNECT Anm (connected number) CONNECTACK Release A DISCONNECT **RELEASE** rel rel DISCONNECT RELEASE rlc rlc RELEASE COM RELEASE COM

Figure 102: Number translation services; Supplementary Services COLP; 'no IN impact' was received in the serviceInteractionIndicatorsTwo

II xx NS	Other ref.:
COLP 02	Q.1601 clause 12.5.1 a)
TSS reference:	ISDN to ISDN/ Number translation services/ Supplementary Services/COLP
ISDN selection	Numb_Trans,
criteria:	INUITID_TTAILS,
Test purpose:	Verify that if 'presentation restricted' was received in the serviceInteractionIndicatorsTwo,
reat purpose.	then if a connected number parameter has been received in the ANM or CON message, the address presentation
	restricted indicator is set to 'presentation restricted'.
	Verify that the Connected number information element is network provided and delivered
	to the calling (served) user without any digit information.
PCO / PO	Initial Detection point
ISUP/INAP Interface	No action
parameter	Connect Operation / Continue operation
Values (note):	Verify that if 'presentation restricted' was received in the INAP
	serviceInteractionIndicatorsTwo, then if a connected number parameter has been
	received in the ANM or CON message, the address presentation
	restricted indicator is set to 'presentation restricted'.
	Sending of backward messages
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or
	in-band information, progress), CON and ANM.
	Verify that the Connected number information element is network provided and delivered
	to the calling (served) user without any digit information.
	Receiving of Release message
PCO / PO	Verify that the IUT can successfully release the call like an ordinary transit exchange. Initial Detection point
ISDN/INAP interface	No action
parameter	Sending of backward messages
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,
values (note).	ALERTING, PROGRESS or CONNECT to the originating side.
	Receiving of a Release message
	Verify that the IUT can successfully release the call.
ISDNparameter	BC = BC ID
values:	synchronous/ asynchronous mode: MODE
	user rate: USER_RATE
	LLC = BC_ID
	synchronous/ asynchronous mode: MODE
	user rate: USER_RATE
	HLC = HLC_ID
Comments:	

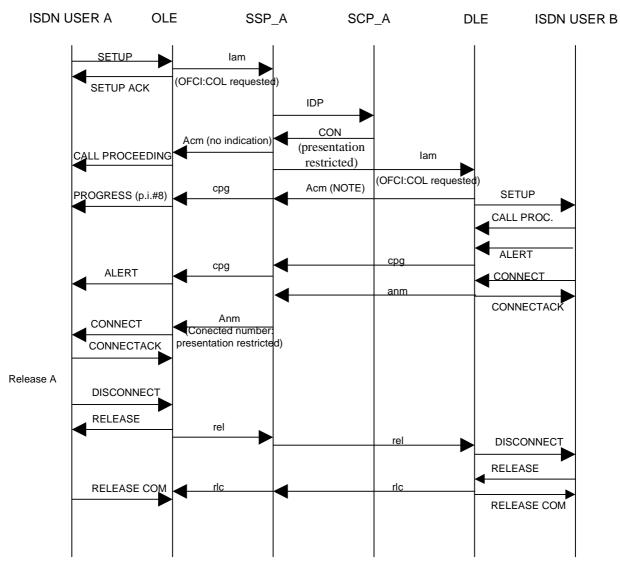


Figure 103: Number translation services; Supplementary Services COLP; "presentation restricted" was received in the serviceInteractionIndicatorsTwo

II xx NS	Other ref.:
COLP 03	Q.1601 clause 12.5.1 b)
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/COLP
ISDN selection	
criteria:	Numb_Trans,
	Movify that if In you are taking repetitionally you reposit and in the INLAD
Test purpose:	Verify that if 'presentation restricted' was received in the INAP
	serviceInteractionIndicatorsTwo, then if a generic number parameter 'additional
	connected number' has been received in the ANM or CON message,
	the address presentation restricted indicator is set to 'presentation restricted'. Verify that the Connected number information element is network provided and delivered
	to the calling (served) user without any digit information.
PCO / PO	Initial Detection point
ISUP/INAP Interface	No action
parameter	Connect Operation / Continue operation
Values (note):	Verify that if 'presentation restricted' was received in the INAP
values (note).	serviceInteractionIndicatorsTwo, then if a generic number parameter 'additional
	connected number has been received in the ANM or CON message,
	the address presentation restricted indicator is set to 'presentation restricted'.
	Sending of backward messages
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or
	in-band information, progress), CON and ANM.
	Verify that the Connected number information element is network provided and delivered
	to the calling (served) user without any digit information.
	Receiving of Release message
	Verify that the IUT can successfully release the call like an ordinary transit exchange.
PCO / PO	Initial Detection point
ISDN/INAP interface	No action
parameter	Sending of backward messages
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,
	ALERTING, PROGRESS or CONNECT to the originating side.
	Receiving of a Release message
	Verify that the IUT can successfully release the call.
ISDN parameter	BC = BC_ID
values:	Synchronous/ asynchronous mode: MODE
	User rate: USER_RATE
	LLC = BC_ID
	Synchronous/ asynchronous mode: MODE
	User rate: USER_RATE
	HLC = HLC_ID
Comments:	

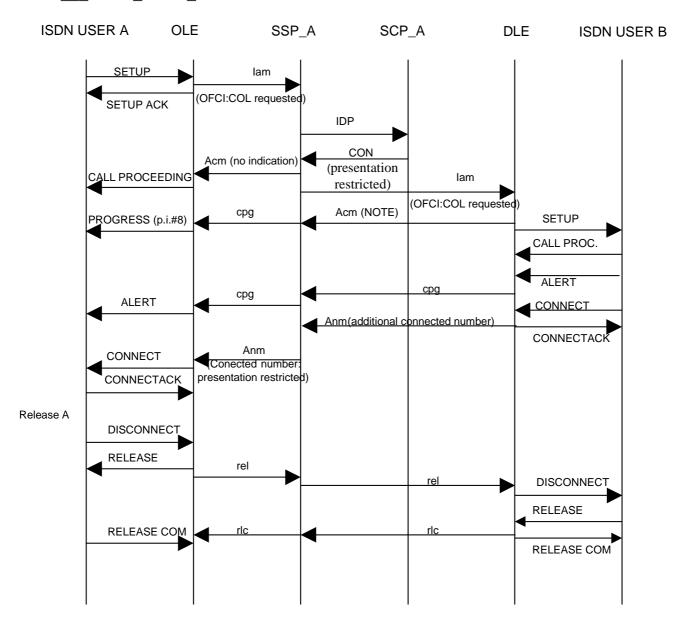
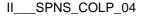


Figure 104: Number translation services; Supplementary Services COLP; "presentation restricted" was received in the serviceInteractionIndicatorsTwo and a generic number parameter 'additional connected number' has been received in the ANM or CON message

II xx NS	Other ref.:
COLP 04	Q.1601 clause 12.5.1 c)
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/COLP
ISDN selection	Numb_Trans,
criteria:	INUITID_TTAILS,
Test purpose:	Verify that if 'presentation restricted' was received in the INAP
rest purpose.	serviceInteractionIndicatorsTwo, then if a redirection number parameter has been
	received, a redirection number restriction parameter is sent in the
	ANM message with bits AB set to 'presentation restricted'.
	Verify that the Connected number information element is network provided and delivered
	to the calling (served) user without any digit information.
PCO / PO	Initial Detection point
ISUP/INAP Interface	No action
parameter	Connect Operation / Continue operation
Values (note):	Verify that if 'presentation restricted' was received in the INAP
, ,	serviceInteractionIndicatorsTwo, then if a redirection number parameter has been
	received, a redirection number restriction parameter is sent in the
	ANM message with bits AB set to 'presentation restricted'.
	Sending of backward messages
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or
	in-band information, progress), CON and ANM.
	Verify that the Connected number information element is network provided and delivered
	to the calling (served) user without any digit information.
	Receiving of Release message
	Verify that the IUT can successfully release the call like an ordinary transit exchange.
PCO / PO	Initial Detection point
ISDN/INAP interface	No action
parameter	Sending of backward messages
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,
	ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message
	Verify that the IUT can successfully release the call.
ISDN parameter	BC = BC ID
values:	synchronous/ asynchronous mode: MODE
values.	user rate: USER_RATE
	LLC = BC_ID
	synchronous/ asynchronous mode: MODE
	user rate: USER_RATE
	HLC = HLC_ID
Comments:	



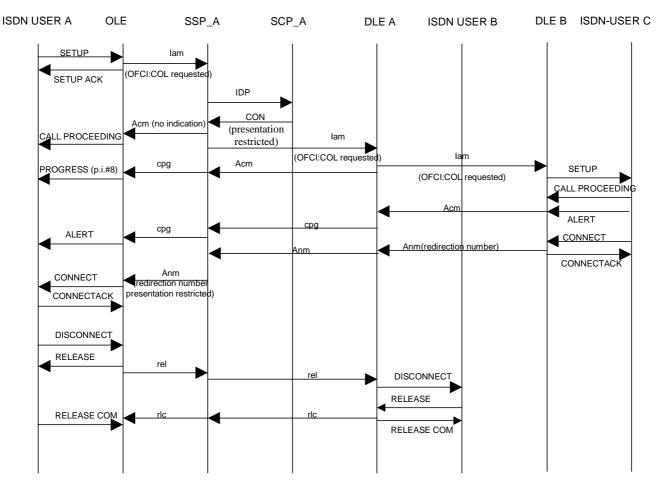


Figure 105: Number translation services; Supplementary Services COLP; "presentation restricted" was received in the serviceInteractionIndicatorsTwo a redirection number parameter has been received

II xx NS	Other ref.:
COLP 05	Q.1601 clause 12.5.1
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/COLP
ISDN selection	Numb_Trans,
criteria:	_ '
Test purpose:	If 'present called IN number' was received in the INAP serviceInteractionIndicatorsTwo, then if a connected number parameter has been received in the ANM or CON message, the connected number parameter is modified as follows: nature of address indicator and numbering plan indicator are encoded as received in the called party number of the IAM message, address presentation restricted indicator: 00 (presentation allowed), address signals: as received in the called party number and possible subsequent number parameters, until the ACM message was sent.
PCO / PO	Initial Detection point
ISUP/INAP Interface	No action
parameter	Connect Operation / Continue operation
Values (note):	If 'present called IN number' was received in the INAP serviceInteractionIndicatorsTwo, then if a connected number parameter has been received in the ANM or CON message, the connected number parameter is modified as follows: nature of address indicator and numbering plan indicator are encoded as received in the called party number of the IAM message, address presentation restricted indicator: 00 (presentation allowed), address signals: as received in the called party number and possible subsequent number parameters, until the ACM message was sent. Sending of backward messages Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or in-band information, progress), CON and ANM. Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.
PCO / PO	Initial Detection point
ISDN/INAP interface	No action
parameter Values (note):	Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message Verify that the IUT can successfully release the call.
ISDN parameter	BC = BC_ID
values:	synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID
Comments:	
-	

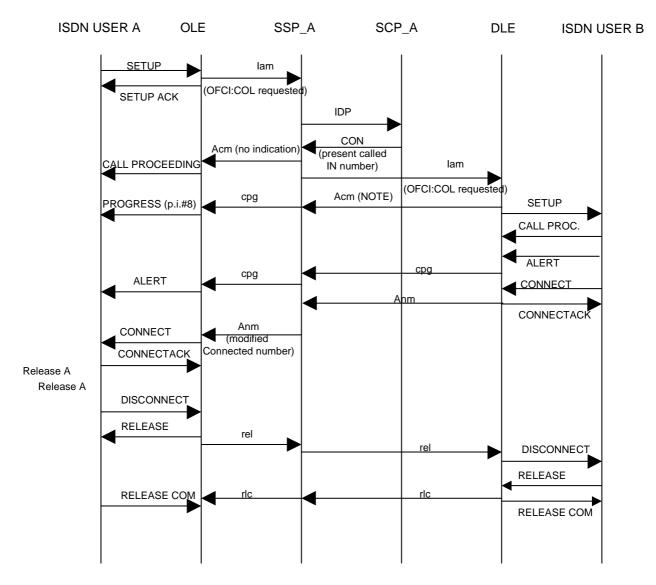


Figure 106: Number translation services; Supplementary Services COLP; "present called IN number" was received in the serviceInteractionIndicatorsTwo

IIxx NS	Other ref.:
COLP 06	Q.1601 clause 12.5.1
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/COLP
ISDN selection	Numb_Trans,
criteria:	
Test purpose:	If 'present called IN number' was received in the INAP serviceInteractionIndicatorsTwo, a generic number parameter 'additional connected number' is deleted from the message, if applicable.
PCO / PO	Initial Detection point
ISUP/INAP Interface	No action
parameter	Connect Operation / Continue operation
Values (note):	If 'present called IN number' was received in the INAP serviceInteractionIndicatorsTwo, a
	generic number parameter 'additional connected number' is deleted from the message, if applicable.
	Sending of backward messages
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or
	in-band information, progress), CON and ANM.
	Receiving of Release message
	Verify that the IUT can successfully release the call like an ordinary transit exchange.
PCO / PO	Initial Detection point
ISDN/INAP interface	No action
parameter	Sending of backward messages
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,
	ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message
	Verify that the IUT can successfully release the call.
ISDN parameter	BC = BC_ID
values:	synchronous/ asynchronous mode: MODE
values.	user rate: USER_RATE
	LLC = BC_ID
	synchronous/ asynchronous mode: MODE
	user rate: USER_RATE
	HLC = HLC_ID
Comments:	

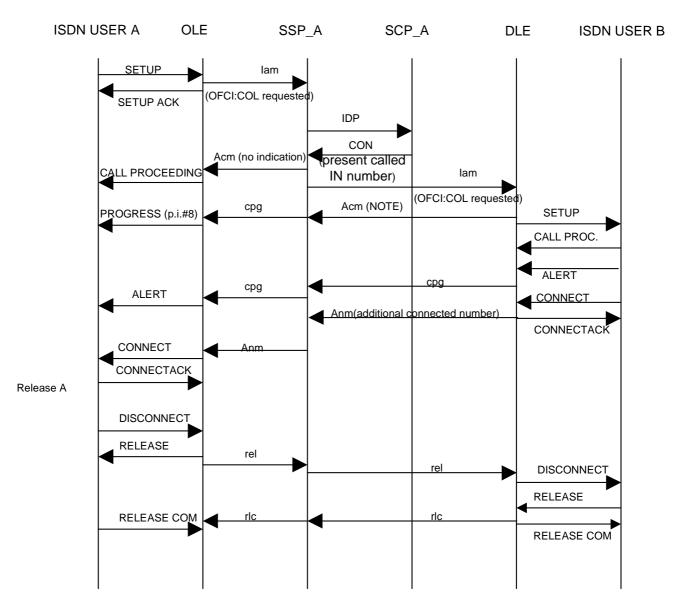


Figure 107: Number translation services; Supplementary Services COLP; "present called IN number" was received in the serviceInteractionIndicatorsTwo, the generic number parameter 'additional connected number' is deleted

IIIxx NS	Other ref.:
COLP 07	Q.1601 clause 12.5.1
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/CFxx
ISDN selection	Numb_Trans,
criteria:	
Test purpose:	If 'present called IN number' was received in the INAP serviceInteractionIndicatorsTwo, a
	redirection number parameter is deleted from the relevant messages, if applicable.
PCO / PO	Initial Detection point
ISUP/INAP Interface	No action
parameter	Connect Operation / Continue operation
Values (note):	If 'present called IN number' was received in the INAP serviceInteractionIndicatorsTwo, a
	redirection number parameter is deleted from the relevant messages, if applicable.
	Sending of backward messages
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or
	in-band information, progress), CON and ANM.
	Receiving of Release message
P00 / P0	Verify that the IUT can successfully release the call like an ordinary transit exchange.
PCO / PO	Initial Detection point
ISDN/INAP interface	No action
parameter	Sending of backward messages
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,
	ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message
	Verify that the IUT can successfully release the call.
ISDN parameter	BC = BC ID
values:	Synchronous/ asynchronous mode: MODE
values.	user rate: USER_RATE
	LLC = BC ID
	Synchronous/ asynchronous mode: MODE
	user rate: USER_RATE
	HLC = HLC_ID
Comments:	_

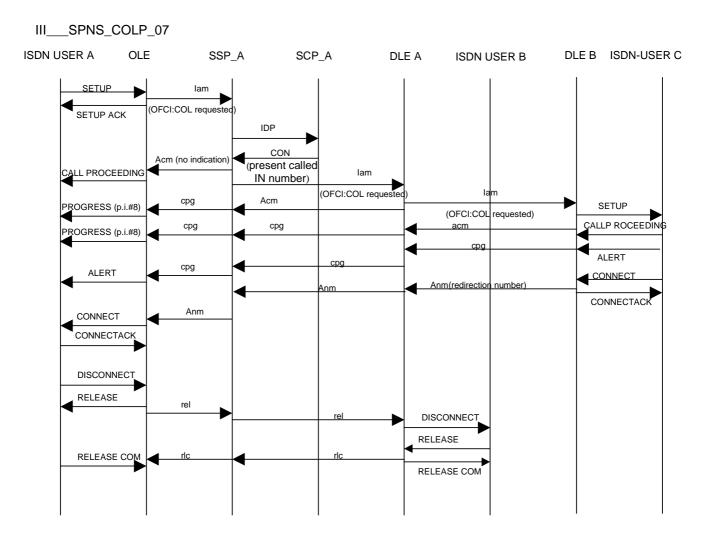


Figure 108: Number translation services; Supplementary Services COLP; "present called IN number" was received in the serviceInteractionIndicatorsTwo

II xx NS	Other ref.:
COLP 08	Q.1601 clause 12.5.1
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/COLP
ISDN selection	Numb_Trans,
criteria:	
Test purpose:	If 'present called IN number restricted' was received in the INAP
	serviceInteractionIndicatorsTwo, then if a connected number parameter has been
	received in the ANM or CON message, the connected number
	parameter is modified as follows:
	nature of address indicator and numbering plan indicator are encoded as received in the
	called party number of the IAM message, address presentation restricted indicator: 01
	(presentation restricted), address signals: as received in the called party number and
DOO / DO	possible subsequent number parameters, until the ACM message was sent.
PCO / PO ISUP/INAP Interface	Initial Detection point No action
parameter	Connect Operation / Continue operation
Values (note):	If 'present called IN number restricted' was received in the INAP
values (note).	serviceInteractionIndicatorsTwo, then if a connected number parameter has been
	received in the ANM or CON message, the connected number parameter is modified as
	follows:
	nature of address indicator and numbering plan indicator are encoded as received
	in the called party number of the IAM message, address presentation restricted
	indicator: 01 (presentation restricted), address signals: as received in the called
	party number and possible subsequent number parameters, until the ACM message
	was sent.
	Sending of backward messages
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or
	in-band information, progress), CON and ANM.
	Receiving of Release message
PCO / PO	Verify that the IUT can successfully release the call like an ordinary transit exchange. Initial Detection point
ISDN/INAP interface	No action
parameter	Sending of backward messages
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,
values (iloto).	ALERTING, PROGRESS or CONNECT to the originating side.
	Receiving of a Release message
	Verify that the IUT can successfully release the call.
ISDN parameter	BC = BC ID
values:	synchronous/ asynchronous mode: MODE
	user rate: USER_RATE
	LLC = BC_ID
	synchronous/ asynchronous mode: MODE
	user rate: USER_RATE
	HLC = HLC_ID
Comments:	

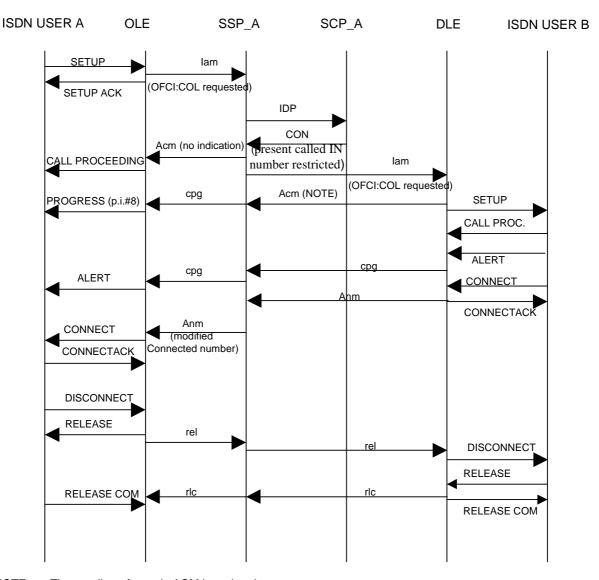


Figure 109: Number translation services; Supplementary Services COLP; "present called IN number restricted" was received in the serviceInteractionIndicatorsTwo

IIxx NS	Other ref.:
COLP 09	Q.1601 clause 12.5.1
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/COLP
ISDN selection	Numb_Trans,
criteria:	
Test purpose:	If 'present called IN number restricted' was received in the INAP
	serviceInteractionIndicatorsTwo, then a generic number parameter 'additional connected
	number' is deleted from the message, if applicable.
PCO / PO	Initial Detection point
ISUP/INAP Interface	No action
parameter	Connect Operation / Continue operation
Values (note):	If 'present called IN number restricted' was received in the INAP
	serviceInteractionIndicatorsTwo, then a generic number parameter 'additional connected number' is deleted from the message, if applicable
	Sending of backward messages
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or
	in-band information, progress), CON and ANM.
	Receiving of Release message
	Verify that the IUT can successfully release the call like an ordinary transit exchange.
PCO / PO	Initial Detection point
ISDN/INAP interface	No action
parameter	Sending of backward messages
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,
	ALERTING, PROGRESS or CONNECT to the originating side.
	Receiving of a Release message
IODNI	Verify that the IUT can successfully release the call.
ISDN parameter	BC =BC_ID
values:	synchronous/ asynchronous mode: MODE
	user rate: USER_RATE
	LLC = BC_ID synchronous/ asynchronous mode: MODE
	user rate: USER_RATE
	HLC = HLC ID
Comments:	1120 - 1120_10

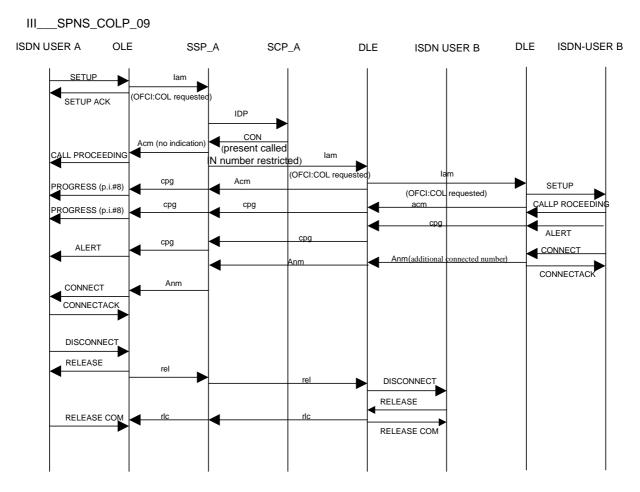
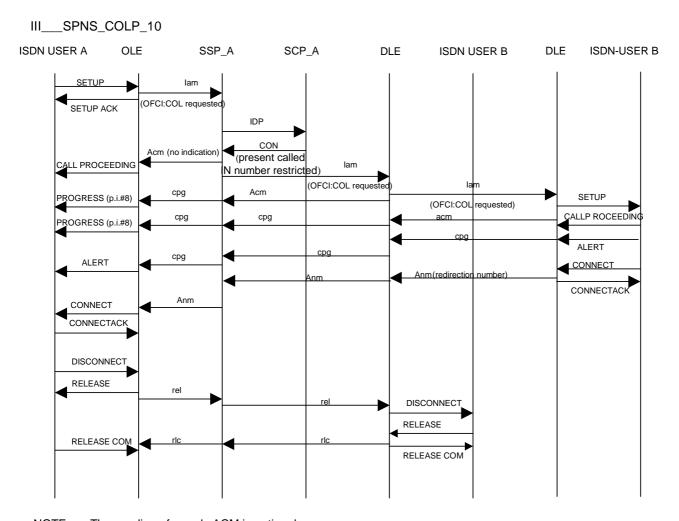


Figure 110: Number translation services; Supplementary Services COLP;
"present called IN number restricted" was received in the serviceInteractionIndicatorsTwo,
a generic number parameter 'additional connected number' is deleted from
from the relevant messages

II xx NS	Other ref.:		
COLP 10	Q.1601 clause 12.5.1		
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/COLP		
ISDN selection	Numb Trans.		
criteria:	indino_frans,		
Test purpose:	If Invacent celled IN number rectricted was received in the INAD		
rest purpose.	If 'present called IN number restricted' was received in the INAP		
	serviceInteractionIndicatorsTwo, then a redirection number parameter is deleted from the relevant messages, if applicable.		
PCO / PO	Initial Detection point		
ISUP/INAP Interface	Verify that the IUT can successfully map the IAM parameter IAM_PAR_ID to the		
parameter	InitialDP parameter InitialIDP_PAR_ID (see annex C).		
Values (note):	Connect Operation / Continue operation		
Values (Hote).	If 'present called IN number restricted' was received in the INAP		
	serviceInteractionIndicatorsTwo, then a redirection number parameter is deleted from		
	the relevant messages, if applicable.		
	Sending of backward messages		
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or		
	in-band information, progress), CON and ANM.		
	Receiving of Release message		
	Verify that the IUT can successfully release the call like an ordinary transit exchange.		
PCO / PO	Initial Detection point		
ISDN/INAP interface	No action .		
parameter	Sending of backward messages		
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,		
	ALERTING, PROGRESS or CONNECT to the originating side.		
	Receiving of a Release message		
	Verify that the IUT can successfully release the call.		
ISDN parameter	BC = BC_ID		
values:	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	LLC = BC_ID		
	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	HLC = HLC_ID		
Comments:			



NOTE: The sending of a early ACM is optional.

Figure 111: Number translation services; Supplementary Services COLP; "present called IN number restricted" was received in the serviceInteractionIndicatorsTwo, the redirection number parameter is deleted from the relevant messages

IIG xx NS	Other ref.:		
CFxx 01_xx	Q.1601 clause 10.1.1.1.4		
TSS reference:			
ISDN selection	ISDN to ISDN/Number translation services/Supplementary Services/CFxx		
criteria:	Numb_Trans,		
Test purpose:	Lloar A attempte a call to upor P		
rest purpose.	User A attempts a call to user B. Verify that the INAP serviceInteractionIndicatorsTwo parameter (in the Connect		
	operation (PICS) or Continue operation (PICS)) indicated as default value		
	"callDiversionAllowed" (in the forwardServiceInteractionInd/		
	callDiversionTreatmentIndicator), is mapped to the value "no indication" in the		
	appropriate parameter in the IAM message.		
	The called user B has activated CFxx defined with the Parameter Value CFxx. Call		
	forwarding to user C takes place.		
PCO / PO	Initial Detection point		
ISUP/INAP Interface	No action		
parameter	Connect Operation / Continue operation		
Values (note):	Parameters which were received in the originating user service information and are		
, ,	not replaced by parameters of the Connect Operation / Continue operation are		
	treated according to the normal call procedures.		
	If Connect Operation applies an ACM message is sent to the preceding exchange.		
	Verify that the INAP serviceInteractionIndicatorsTwo parameter indicated as default		
	value is mapped to the value "no indication" in the appropriate parameter in the IAM		
	message.		
	Sending of backward messages		
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or		
	in-band information, progress), CON and ANM.		
	Receiving of Release message		
PCO / PO	Verify that the IUT can successfully release the call like an ordinary transit exchange.		
ISDN/INAP interface	Initial Detection point		
parameter	No action		
Values (note):	Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING,		
values (note).	ALERTING, PROGRESS or CONNECT to the originating side.		
	Receiving of a Release message		
	Verify that the IUT can successfully release the call.		
ISDN parameter	BC = BC ID		
values:	Synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	LLC = BC_ID		
	Synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	HLC = HLC_ID		
Comments:			

III_SPNS_CFxx_01_CFU

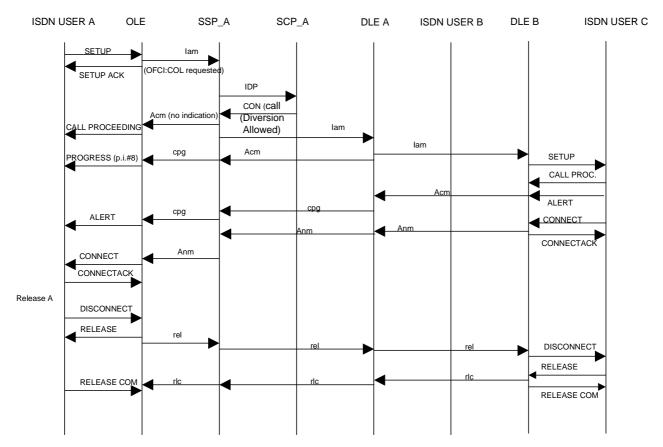


Figure 112: Number translation services; Supplementary Service CFU with the "callDiversionAllowed" parameter received in CON Message

IIG_SPNS_CFxx_01_CFB

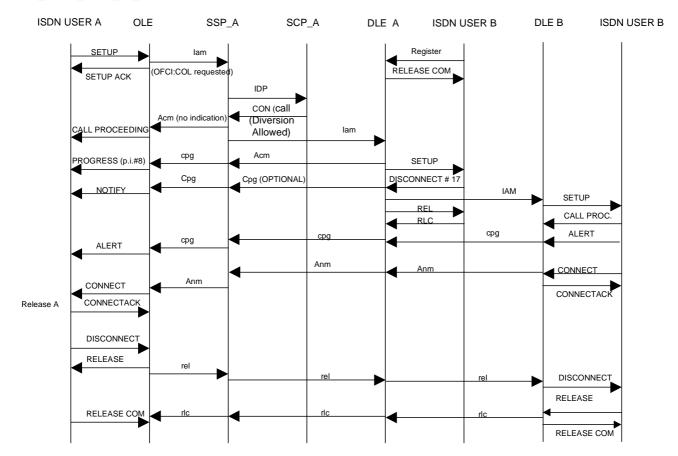


Figure 113: Number translation services; Supplementary Service CFB with the "callDiversionAllowed" parameter received in CON Message

II xx NS	Other ref.:		
CFxx 02	Q.1601 clause 12.1		
01 70 02	Q.1001 00000 12.1		
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/CFxx		
ISDN selection			
criteria:	Numb_Trans,		
Test purpose:	Heav A attenuate a call to assumb as D		
rest purpose.	User A attempts a call to number B. The called war B has activated CFvv defined with the Barameter Value CFvv Call		
	The called user B has activated CFxx defined with the Parameter Value CFxx. Call		
	forwarding to user C takes place.		
	If "suppress information" was received in the INAP serviceInteractionIndicatorsTwo (in		
	the forwardServiceInteractionInd/ callDiversionTreatmentIndicator), then the following		
	parameters shall be discarded, if received:		
	a) generic notification indicator parameter with "call is diverting";		
	b) call diversion information parameter;		
	c) redirection number parameter;		
700 / 70	d) redirection number restriction parameter.		
PCO / PO	Initial Detection point		
ISUP/INAP Interface	No action		
parameter	Connect Operation		
Values (note):	If "suppress information" was received in the INAP serviceInteractionIndicatorsTwo (call		
	diversion notification treatment indicator), then the following parameters shall be		
	discarded, if received:		
	 a) generic notification indicator parameter with "call is diverting"; 		
	b) call diversion information parameter;		
	c) redirection number parameter;		
	d) redirection number restriction parameter.		
	Sending of backward messages		
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or		
	in-band information, progress), CON and ANM.		
	Receiving of Release message		
	Verify that the IUT can successfully release the call like an ordinary transit exchange.		
PCO / PO	Initial Detection point		
ISDN/INAP interface	No action		
parameter	Sending of backward messages		
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,		
	ALERTING, PROGRESS or CONNECT to the originating side.		
	Receiving of a Release message		
	Verify that the IUT can successfully release the call.		
ISDN parameter	BC = BC_ID		
values:	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	LLC = BC_ID		
	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	HLC = HLC ID		
Comments:	<u></u>		
	.l		

III_SPNS_CFxx_02_CFU

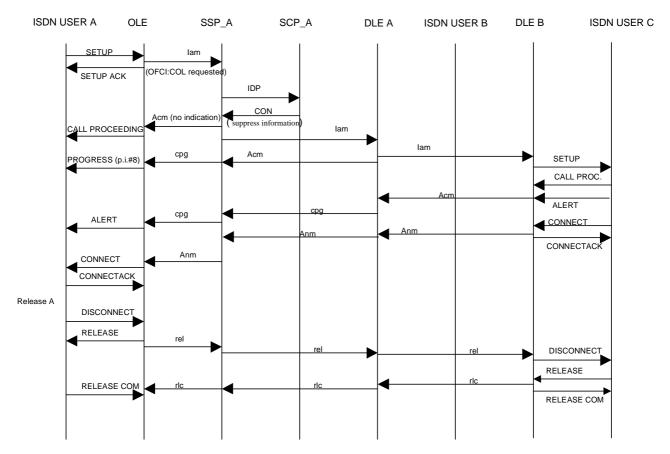


Figure 114: Number translation services; Supplementary Service CFU "suppress information" was received in the INAP serviceInteractionIndicatorsTwo

III_SPNS_CFxx_02_CFB

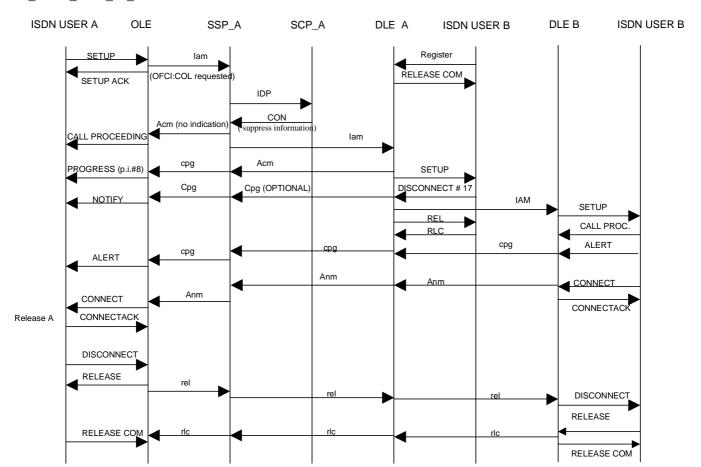


Figure 115: Number translation services; Supplementary Service CFB "suppress information" was received in the INAP serviceInteractionIndicatorsTwo

III__SPNS_CFxx_02_CFNR

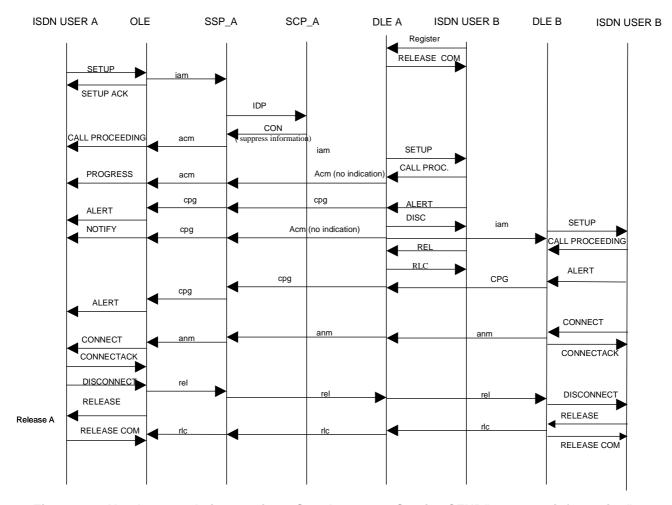


Figure 116: Number translation services; Supplementary Service CFNR"suppress information" was received in the INAP serviceInteractionIndicatorsTwo

III xx NS	Other ref.:		
CFU 01	Q.1601 clauses 10.1.1.1.4		
CFUUI			
T00 (and 12.1.2.1		
TSS reference:	ISDN to ISDN/Number translation services/Supplementary Services/CF		
ISDN selection	Numb_Trans,		
criteria:			
Test purpose:	User A attempts a call to number B.		
	The called user B has activated CFU.		
	Call forwarding unconditional activated by the ISDN subscriber is suppressed, if "call		
	diversion not allowed"(in the forwardServiceInteractionInd/		
	callDiversionTreatmentIndicator) was received in the call diversion treatment indicators		
	(call to be diverted indicator). The call is offered to the subscriber.		
PCO / PO	Initial Detection point		
ISUP/INAP Interface	No action		
parameter	Connect Operation / Continue operation		
Values (note):	Parameters which were received in the originating user service information and are		
	not replaced by parameters of the Connect Operation / Continue operation are		
	treated according to the normal call procedures. If Connect Operation applies an ACM		
	message is sent to the preceding exchange.		
	Verify that the INAP serviceInteractionIndicatorsTwo parameter value indicated "call		
	diversion not allowed", is mapped to the value "call diversion not allowed" in the		
	appropriate parameter in the IAM message.		
	Sending of backward messages		
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or		
	in-band information, progress), CON and ANM.		
	Receiving of Release message		
	Verify that the IUT can successfully release the call like an ordinary transit exchange.		
PCO / PO	Initial Detection point		
ISDN/INAP interface	No action		
parameter	Sending of backward messages		
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,		
	ALERTING, PROGRESS or CONNECT to the originating side.		
	Receiving of a Release message		
	Verify that the IUT can successfully release the call.		
ISDN parameter	BC = BC_ID		
values:	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	LLC = BC_ID		
	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
_	HLC = HLC_ID		
Comments:			



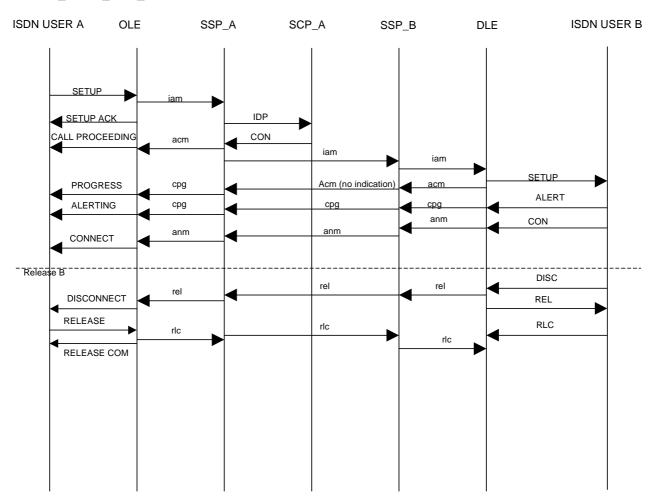


Figure 117: Number translation services; Supplementary Service CFU "call diversion not allowed" information" was received in the INAP serviceInteractionIndicatorsTwo

IIxx NS	Other ref.:		
CFB 01	Q.1601 clauses 10.1.1.1.4		
CFBUI			
T00 (and 12.1.2.1		
TSS reference:	ISDN to ISDN/Number translation services/Supplementary Services/CF		
ISDN selection	Numb_Trans,		
criteria:			
Test purpose:	User A attempts a call to user B.		
	The called user B Number has activated CFB.		
	Call forwarding busy activated by the ISDN subscriber is not performed, if "call diversion		
	not allowed" was received in the call diversion treatment indicators (call to be diverted		
	indicator). The call is released using the appropriate cause in the REL message.		
PCO / PO	Initial Detection point		
ISUP/INAP Interface	No action		
parameter	Connect Operation / Continue operation		
Values (note):	Parameters which were received in the originating user service information are not		
	replaced by parameters of the Connect Operation / Continue operation are treated		
	according to the normal call procedures. If Connect Operation applies an ACM message		
	is sent to the preceding exchange.		
	Verify that the INAP serviceInteractionIndicatorsTwo parameter value indicated "call		
	diversion not allowed", is mapped to the value "call diversion not allowed" in the		
	appropriate parameter in the IAM message.		
	Sending of backward messages		
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or		
	in-band information, progress), CON and ANM.		
	Receiving of Release message		
	Verify that the IUT can successfully release the call like an ordinary transit exchange.		
PCO / PO	Initial Detection point		
ISDN/INAP interface	No action .		
parameter	Sending of backward messages		
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,		
	ALERTING, PROGRESS or CONNECT to the originating side.		
	Receiving of a Release message		
	Verify that the IUT can successfully release the call.		
ISDN parameter	BC = BC_ID		
values:	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	LLC = BC_ID		
	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	HLC = HLC_ID		
Comments:			
	4		

II xx NS	Other ref.:		
CFNR 01	Q.1601 clauses 10.1.1.1.4		
CFINK UI			
TCC voference:	and 12.1.2.1		
TSS reference:	ISDN to ISDN/Number translation services/Supplementary Services/CF		
ISDN selection	Numb_Trans,		
criteria:			
Test purpose:	User A attempts a call to user B.		
	The called user B Number has activated CFNR.		
	Call forwarding on reply activated by the ISDN subscriber is not performed, if "call		
	diversion not allowed" was received in the call diversion treatment indicators (call to be		
	diverted indicator). Call offering to the subscriber continues.		
PCO / PO	Initial Detection point		
ISUP/INAP Interface	No action		
parameter	Connect Operation / Continue operation		
Values (note):	Parameters which were received in the originating user service information and are		
	not replaced by parameters of the Connect Operation / Continue operation are		
	treated according to the normal call procedures. If Connect Operation applies an ACM		
	message is sent to the preceding exchange.		
	Verify that the INAP serviceInteractionIndicatorsTwo parameter value indicated "call		
	diversion not allowed", is mapped to the value "call diversion not allowed" in the		
	appropriate parameter in the IAM message.		
	Sending of backward messages		
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or		
	in-band information, progress), CON and ANM.		
	Receiving of Release message		
	Verify that the IUT can successfully release the call like an ordinary transit exchange.		
PCO / PO	Initial Detection point		
ISDN/INAP interface	No action .		
parameter	Sending of backward messages		
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,		
	ALERTING, PROGRESS or CONNECT to the originating side.		
	Receiving of a Release message		
	Verify that the IUT can successfully release the call.		
ISDN parameter	BC = BC_ID		
values:	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	LLC = BC_ID		
	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	HLC = HLC_ID		
Comments:	_		
	1		

IIxx NS	Other ref.:		
CD 01	Q.1601 clauses 10.1.1.1.4		
	and 12.1.2.1		
TSS reference:	ISDN to ISDN/Number translation services/Supplementary Services/CF		
ISDN selection	Numb_Trans,		
criteria:			
Test purpose:	User A attempts a call to user B.		
	The called user B Number has activated CD.		
	Call deflection requested by the ISDN subscriber is rejected, if "call diversion not		
	allowed" was received in the call diversion treatment indicators (call to be diverted		
	indicator). Call offering to the subscriber continues.		
PCO / PO	Initial Detection point		
ISUP/INAP Interface	No action		
parameter	Connect Operation / Continue operation		
Values (note):	Parameters which were received in the originating user service information and are		
	not replaced by parameters of the Connect Operation / Continue operation are		
	treated according to the normal call procedures. If Connect Operation applies an ACM		
	message is sent to the preceding exchange.		
	Verify that the INAP serviceInteractionIndicatorsTwo parameter value indicated "call		
	diversion not allowed", is mapped to the value "call diversion not allowed" in the		
	appropriate parameter in the IAM message.		
	Sending of backward messages		
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or		
	in-band information, progress), CON and ANM.		
	Receiving of Release message		
700 / 70	Verify that the IUT can successfully release the call like an ordinary transit exchange.		
PCO / PO	Initial Detection point		
ISDN/INAP interface	No action		
parameter	Sending of backward messages		
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,		
	ALERTING, PROGRESS or CONNECT to the originating side.		
	Receiving of a Release message		
ICDN managements	Verify that the IUT can successfully release the call.		
ISDN parameter	BC = BC_ID		
values:	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	LLC = BC_ID		
	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
Commonto	HLC = HLC_ID		
Comments:			

IIxx NS_	Other ref.:		
CONF 01	Q.1601 clause 12.4		
TSS reference:	ISDN to ISDN/Number translation services/Supplementary Services/CONF		
ISDN selection	Numb_Trans,		
criteria:	inano,		
Test purpose:	User A attempts a call to user B.		
	Verify that the INAP serviceInteractionIndicatorsTwo parameter (in the Connect		
	operation (PICS) or Continue operation (PICS)) indicated as default value "accept		
	ConferenceRequest " (ForwardServiceInteractionInd/		
	conferenceTreatmentIndicator) is mapped to the value "no indication" in the		
	appropriate parameter in the IAM message.		
	Ensure that user B can establish a conference call with user A and MS C.		
PCO / PO	Initial Detection point		
ISUP/INAP Interface	No action		
parameter	Connect Operation / Continue operation		
Values (note):	Parameters which were received in the originating user service information and are		
	not replaced by parameters of the Connect Operation / Continue operation are		
	treated according to the normal call procedures. If Connect Operation applies an ACM		
	message is sent to the preceding exchange. Verify that the INAP serviceInteractionIndicatorsTwo parameter indicated as default		
	value is mapped to the value "no indication" in the appropriate parameter in the IAM		
	message.		
	Sending of backward messages		
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or		
	in-band information, progress), CON and ANM.		
	Receiving of Release message		
	Verify that the IUT can successfully release the call like an ordinary transit exchange.		
PCO / PO	Initial Detection point		
ISDN/INAP interface	No action		
parameter	Sending of backward messages		
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,		
	ALERTING, PROGRESS or CONNECT to the originating side.		
	Receiving of a Release message		
10011	Verify that the IUT can successfully release the call.		
ISDN parameter	BC = BC_ID		
values:	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	LLC = BC_ID		
	synchronous/ asynchronous mode: MODE user rate: USER_RATE		
	HLC = HLC_ID		
Comments:			

II xx NS	Other ref.:		
CONF 02	Q.1601		
TSS reference:	ISDN to ISDN/Number translation services/Supplementary Services/CONF		
ISDN selection	Numb_Trans,		
criteria:			
Test purpose:	User A attempts a call to user B. Verify that the INAP serviceInteractionIndicatorsTwo		
	parameter value (in the Connect operation (PICS) or Continue operation (PICS))		
	indicated " reject conference request", (ForwardServiceInteractionInd/		
	conferenceTreatmentIndicator) is mapped to the value "reject conference request" in		
	the appropriate parameter in the IAM message.		
	Ensure that user B can not establish a conference call with user A and user C.		
PCO / PO	Initial Detection point		
ISUP/INAP Interface	No action		
parameter	Connect Operation / Continue operation		
Values (note):	Parameters which were received in the originating user service information and are		
	not replaced by parameters of the Connect Operation / Continue operation are		
	treated according to the normal call procedures. If Connect Operation applies an ACM		
	message is sent to the preceding exchange.		
	Verify that the INAP serviceInteractionIndicatorsTwo parameter value indicated "reject		
	conference request", is mapped to the value "reject conference request" in the		
	appropriate parameter in the IAM message.		
	Sending of backward messages		
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or		
	in-band information, progress), CON and ANM.		
	Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.		
DCC / DC	Initial Detection point		
PCO / PO ISDN/INAP interface	No action		
parameter	Sending of backward messages		
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING,		
values (note).			
	ALERTING, PROGRESS or CONNECT to the originating side. Receiving of a Release message		
	Verify that the IUT can successfully release the call.		
ISDN parameter	BC = BC ID		
values:	Synchronous/ asynchronous mode: MODE		
Values.	user rate: USER_RATE		
	LLC = BC ID		
	Synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	HLC = HLC_ID		
Comments:			
	<u>I</u>		

II xx NS	Other ref.:			
CONF 03	Q.1601			
TSS reference:	ISDN to ISDN/Number translation services/Supplementary Services/CONF			
ISDN selection	Numb_Trans,			
criteria:	_ ′			
Test purpose:	Verify that the INAP serviceInteractionIndicatorsTwo parameter value (in the Connect operation (PICS) or Continue operation (PICS)) indicated - "accept conference request (default)" (ForwardServiceInteractionInd/ conferenceTreatmentIndicator), is mapped to the value "no indication" in the appropriate parameter in the ACM/CON message. Ensure that user A can establish a conference call with user B and user C.			
PCO / PO	Initial Detection point			
ISUP/INAP Interface	No action			
parameter	Connect Operation / Continue operation			
Values (note):	Parameters which were received in the originating user service information and are not replaced by parameters of the Connect operation are treated according to the normal call procedures. If Connect Operation applies an ACM message is sent to the preceding exchange.			
	Verify that the INAP serviceInteractionIndicatorsTwo parameter value (in the Connect operation) indicated "reject conference request", is mapped to the value "reject conference request" in the appropriate parameter in the ACM/CON message. Sending of backward messages			
	Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or in-band information, progress), CON and ANM.			
	Receiving of Release message			
	Verify that the IUT can successfully release the call like an ordinary transit exchange.			
PCO / PO	Initial Detection point			
ISDN/INAP interface	No action			
parameter	Sending of backward messages			
Values (note):	Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.			
	Receiving of a Release message			
IODNI .	Verify that the IUT can successfully release the call.			
ISDN parameter	BC = BC_ID			
values:	synchronous/ asynchronous mode: MODE			
	user rate: USER_RATE			
	LLC = BC_ID synchronous/ asynchronous mode: MODE			
	user rate: USER_RATE			
	HLC = HLC_ID			
Comments:	_			

II xx NS	Other ref.:		
CONF 04	Q.1601		
TSS reference:	ISDN to ISDN/Number translation services/Supplementary Services/CONF		
ISDN selection	Numb Trans.		
criteria:	ויייווט_וומווס,		
Test purpose:	Verify that the INAP serviceInteractionIndicatorsTwo parameter value (in the Connect operation (PICS)) or Continue operation (PICS)) indicated "reject conference request" (ForwardServiceInteractionInd/ conferenceTreatmentIndicator), is mapped to the value "reject conference request" in the appropriate parameter in the ACM/CON message.		
PCO / PO	Ensure that user A can not establish a conference call with user B and user C. Initial Detection point		
ISUP/INAP Interface	No action		
parameter	Connect Operation / Continue operation		
Values (note):	Parameters which were received in the originating user service information and are not replaced by parameters of the Connect operation are treated according to the normal call procedures. If Connect Operation applies an ACM message is sent to the preceding exchange. Verify that the INAP serviceInteractionIndicatorsTwo parameter value (in the Connect operation) indicated "reject conference request", is mapped to the value "reject conference request" in the appropriate parameter in the ACM/CON message. Sending of backward messages Verify that the IUT can successfully map the backward messages ACM, CPG (alerting or in-band information, progress), CON and ANM. Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.		
PCO / PO	Initial Detection point		
ISDN/INAP interface	No action		
parameter	Sending of backward messages		
Values (note):	No action		
	Receiving of a Release message		
ISDN parameter	No action		
ISDN parameter values:	BC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID		
Comments:			

IIxx NS	Other ref.:		
CCBS 01	Q.1601 clause 12		
TSS reference:	ISDN to ISDN/Number translation services/Supplementary Services/CCBS		
ISDN selection	Numb_Trans,		
criteria:			
Test purpose:	Verify that the INAP serviceInteractionIndicatorsTwo parameter value (in the Connect operation (PICS) or Continue operation (PICS)) indicated " accept CCBS service request (default)", is mapped to the value "CCBS possible" in the appropriate parameter in the REL message. Ensure that user A can activate successful CCBS call setup to user B.		
PCO / PO	Initial Detection point		
ISUP/INAP Interface	No action		
parameter	Connect Operation / Continue ope		
Values (note):	Parameters which were received in the originating user service information and are not replaced by parameters of the Connect Operation / Continue operation are treated according to the normal call procedures. If Connect Operation applies an ACM message is sent to the preceding exchange. Verify that the INAP serviceInteractionIndicatorsTwo parameter value indicated "accept CCBS service request (default)", is mapped to the value "CCBS possible" in the appropriate parameter in the REL message. Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.		
PCO / PO	Initial Detection point		
ISDN/INAP interface	No action		
parameter	Sending of backward messages		
Values (note):	No action		
	Receiving of a Release message		
IODN	No action		
ISDN parameter values:	BC = BC_ID		
values:	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE LLC = BC ID		
	synchronous/ asynchronous mode: MODE		
	user rate: USER_RATE		
	HLC = HLC ID		
Comments:			
	•		

II xx NS	Other ref.:	
CCBS 02	Q.1601 clause 12	
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/CCBS	
ISDN selection	Numb Trans.	
criteria:		
Test purpose:	To verify that the Call is not routed to the Called Party Number, but to a translated	
	Number.	
	If "reject call completion request" was received in the INAP serviceInteractionIndicator	
	parameter (call completion treatment indicator), then in a received REL message a	
	"CCBS possible" in the diagnostics field of the cause indicators is replaced with "CCBS	
	not possible".	
	Ensure that user A can not activate successful CCBS call setup to user B.	
PCO / PO	Initial Detection point	
ISUP/INAP Interface	No action	
parameter Values (note):	Connect Operation / Continue operation Parameters which were received in the originating user service information and are	
values (note).	not replaced by parameters of the Connect Operation / Continue operation are treated	
	according to the normal call procedures. If Connect Operation applies an ACM message	
	is sent to the preceding exchange.	
	If "reject call completion request" was received in the INAP serviceInteractionIndicator	
	parameter (call completion treatment indicator), then in a received REL message a	
	"CCBS possible" in the diagnostics field of the cause indicators is replaced with "CCBS	
	not possible".	
	Receiving of Release message	
	Verify that the IUT can successfully release the call like an ordinary transit exchange.	
PCO / PO	Initial Detection point	
ISDN/INAP interface	No action	
parameter	Sending of backward messages	
Values (note):	No action	
	Receiving of a Release message	
IODN	No action	
ISDN parameter	BC = BC_ID	
values:	synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE LLC = BC ID	
	synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE	
	HLC = HLC_ID	
Comments:	1120 - 1120_10	
	1	

II xx NS	Other ref.:	
UUS1i 01	Q.1601 clause 10.1.3.2.1	
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/UUS1	
ISDN selection	Numb_Trans,	
criteria:		
Test purpose:	User A is sending a UUS1i message to user B.	
	If user-to-user service 1 is implicitly requested, the user-to-user information parameter	
	will be discarded from the IAM message and the user-to-user indicators parameter	
	indicating "user-to-user information discarded by the network" is sent in the ACM	
	message. The LILIS1 message should not be cont to user P.	
PCO / PO	The UUS1 message should not be sent to user B. Initial Detection point	
ISUP/INAP Interface	If user-to-user service 1 is implicitly requested, the user-to-user information parameter	
parameter	will be discarded from the IAM message and the user-to-user indicators parameter	
Values (note):	indicating "user-to-user information discarded by the network" is sent in the ACM	
	message.	
	Connect Operation / Continue operation	
	Parameters which were received in the originating user service information and are	
	not replaced by parameters of the Connect Operation / Continue operation are treated	
	according to the normal call procedures.	
	Receiving of Release message	
D00 / D0	Verify that the IUT can successfully release the call like an ordinary transit exchange.	
PCO / PO ISDN/INAP interface	Initial Detection point No action	
parameter	Sending of backward messages	
Values (note):	No action	
raidos (iloto).	Receiving of a Release message	
	No action	
ISDN parameter	BC = BC_ID	
values:	synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE	
	LLC = BC_ID	
	synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE	
Comments:	HLC = HLC_ID	
Comments:		

IIxx NS	Other ref.:	
UUS1e 02	Q.1601 clause 10.1.3.2.1	
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/UUS1	
ISDN selection	Numb_Trans,	
criteria:		
Test purpose:	User A is sending a UUS1e message	
		plicitly requested as "not essential", the user-to-user
		ed from the IAM and service 1 will be indicated as
	"not provided" in the ACM.	
	The UUS1 message should not be	sent to user B.
PCO / PO	Initial Detection point	
ISUP/INAP Interface		plicitly requested as "not essential", the user-to-user
parameter		ed from the IAM and service 1 will be indicated as
Values (note):	"not provided" in the ACM.	avation.
	Connect Operation / Continue op	the originating user service information and are
		Connect Operation / Continue operation are treated
	according to the normal call proced	
	Receiving of Release message	
	Verify that the IUT can successfully release the call like an ordinary transit exchange.	
PCO / PO	Initial Detection point	
ISDN/INAP interface	No action	
parameter	Sending of backward messages	
Values (note):	No action	
	Receiving of a Release message	
	No action	
ISDN parameter	BC = BC_ID	
values:	synchronous/ asynchronous mo	de: MODE
	user rate: USER_RATE	
	LLC = BC_ID	
	synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE	
0	HLC = HLC_ID	
Comments:		

IIxx NS	Other ref.:	
UUS1e 03	Q.1601 clause 10.1.3.2.1	
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/UUS1	
ISDN selection	Numb_Trans,	
criteria:		
Test purpose:	User A is sending a UUS1e messa	ge to user B.
	If the user-to-user service 1 was ex	plicitly requested as "essential", the call is cleared
	with cause value #29 and diagnosti	cs in the REL message.
PCO / PO	Initial Detection point	
ISUP/INAP Interface		plicitly requested as "essential", the call is cleared
parameter	with cause value #29 and diagnosti	cs in the REL message.
Values (note):	Receiving of Release message	
		release the call like an ordinary transit exchange.
PCO / PO	Initial Detection point	
ISDN/INAP interface	If the user-to-user service 1 was explicitly requested as "essential", the call is cleared	
parameter	with cause value #29 and diagnosti	cs in the REL message.
Values (note):	Receiving of a Release message	
	Verify that the IUT can successfully release the call.	
ISDN parameter	BC = BC_ID	
values:	synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE	
	LLC = BC_ID	
	synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE	
_	HLC = HLC_ID	
Comments:		

IIxx NS	Other ref.:	
UUS2 01	Q.1601 clause 10.1.3.2.1	
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/UUS2	
ISDN selection	Numb_Trans,	
criteria:		
Test purpose:	User A is sending a UUS2 message to user B.	
	If the user-to-user service 2 was explicitly requested as "not essential", the user-to-user	
	indicators parameter will be discarded from the IAM and service 2 will be indicated as	
	"not provided" in the ACM.	
700 (70	The UUS2 message should not be sent to user B.	
PCO / PO	Initial Detection point	
ISUP/INAP Interface	If the user-to-user service 2 was explicitly requested as "not essential", the user-to-user	
parameter Values (note):	indicators parameter will be discarded from the IAM and service 2 will be indicated as "not provided" in the ACM.	
values (110te).	Connect Operation / Continue operation	
	Parameters which were received in the originating user service information and are	
	not replaced by parameters of the Connect Operation / Continue operation are treated	
	according to the normal call procedures.	
	Receiving of Release message	
	Verify that the IUT can successfully release the call like an ordinary transit exchange.	
PCO / PO	Initial Detection point	
ISDN/INAP interface	No action .	
parameter	Sending of backward messages	
Values (note):	No action	
	Receiving of a Release message	
	No action	
ISDN parameter	BC = BC_ID	
values:	synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE	
	LLC = BC_ID	
	synchronous/ asynchronous mode: MODE user rate: USER RATE	
	HLC = HLC ID	
Comments:		

IIxx NS	Other ref.:	
US2e 02	Q.1601 clause 10.1.3.2.1	
TSS reference:	ISDN to ISDN/ Number translation	services/Supplementary Services/UUS2
ISDN selection	Numb_Trans,	
criteria:		
Test purpose:	User A is sending a UUS2 message	e to user B.
	If the user-to-user service 2 was ex	plicitly requested as "essential", the call is cleared
	with cause value #29 and diagnosti	cs in the REL message.
PCO / PO	Initial Detection point	
ISUP/INAP Interface	If the user-to-user service 2 was ex	plicitly requested as "essential", the call is cleared
parameter	with cause value #29 and diagnosti	cs in the REL message.
Values (note):	Receiving of Release message	
		release the call like an ordinary transit exchange.
PCO / PO	Initial Detection point	
ISDN/INAP interface		plicitly requested as "essential", the call is cleared
parameter	with cause value #29 and diagnosti	
Values (note):	Receiving of a Release message	
	Verify that the IUT can successfully release the call.	
ISDN parameter	BC = BC_ID	
values:	synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE	
	LLC = BC_ID	
	synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE	
	HLC = HLC_ID	
Comments:		

IIxx NS	Other ref.:	
UUS3 01	Q.1601 clause 10.1.3.2.1	
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/UUS3	
ISDN selection	Numb_Trans,	
criteria:		
Test purpose:	User A is sending a UUS3 message	e to user B. The Service request is the during call
	setup.	
	If the user-to-user service 3 was ex	
		er will be discarded from the IAM and service 3
	will be indicated as "not provided" in	
	The UUS3 message should not be	sent to user B.
PCO / PO	Initial Detection point	
ISUP/INAP Interface	If the user-to-user service 3 was ex	
parameter		er will be discarded from the IAM and service 3
Values (note):	will be indicated as "not provided" in	
	Connect Operation / Continue op	
		the originating user service information and are
		Connect Operation / Continue operation are treated
	according to the normal call procedures.	
	Receiving of Release message	
	Verify that the IUT can successfully release the call like an ordinary transit exchange.	
PCO / PO	Initial Detection point	
ISDN/INAP interface	No action	
parameter	Sending of backward messages	
Values (note):	No action	
	Receiving of a Release message	
	No action	
ISDN parameter	BC = BC_ID	
values:	synchronous/ asynchronous mo	de: MODE
	user rate: USER_RATE	
	LLC = BC_ID	
	synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE	
	HLC = HLC_ID	
Comments:		

IIxx NS	Other ref.:	
UUS3 02	Q.1601 clause 10.1.3.2.1	
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/UUS3	
ISDN selection	Numb_Trans,	
criteria:		
Test purpose:	User A is sending a UUS3 message to user B. The Service request is the during call	
	setup.	
	If the user-to-user service 3 was explicitly requested as "essential", the call is cleared	
	with cause value #29 and diagnostics in the REL message	
PCO / PO	Initial Detection point	
ISUP/INAP Interface	If the user-to-user service 1 was explicitly requested as "essential", the call is cleared	
parameter	with cause value #29 and diagnostics in the REL message.	
Values (note):	Receiving of Release message	
	Verify that the IUT can successfully release the call like an ordinary transit exchange.	
PCO / PO	Initial Detection point	
ISDN/INAP interface	If the user-to-user service 3 was explicitly requested as "essential", the call is cleared	
parameter	with cause value #29 and diagnostics in the REL message.	
Values (note):	Receiving of a Release message	
	Verify that the IUT can successfully release the call.	
ISDN parameter	BC = BC_ID	
values:	synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE	
	LLC = BC_ID	
	synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE	
	HLC = HLC_ID	
Comments:		

II xx NS	Other ref.:	
UUS3 03	Q.1601 clause 10.1.3.2.1	
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/UUS3	
ISDN selection	Numb_Trans,	
criteria:		
Test purpose:	User A is sending a UUS3 message to user B. The service request is after the call	
	setup.	
	A FRQ with facility indicators set to "user-to-user service" and the user-to-user indicators	
	parameter (containing the relevant service 3 information) will be responded by a FRJ	
	message indicating "not provided" for service 3 in the	
	user-to-user indicators.	
PCO / PO	The UUS3 message should not be sent to user B.	
ISUP/INAP Interface	Initial Detection point A FRQ with facility indicators set to "user-to-user service" and the user-to-user indicators	
parameter	parameter (containing the relevant service 3 information) will be responded by a FRJ	
Values (note):	message indicating "not provided" for service 3 in the user-to-user indicators.	
values (note).	Connect Operation / Continue operation	
	Parameters which were received in the originating user service information and are	
	not replaced by parameters of the Connect Operation / Continue operation are treated	
	according to the normal call procedures.	
	Receiving of Release message	
	Verify that the IUT can successfully release the call like an ordinary transit exchange.	
PCO / PO	Initial Detection point	
ISDN/INAP interface	No action .	
parameter	Sending of backward messages	
Values (note):	No action	
	Receiving of a Release message	
	No action	
ISDN parameter	BC = BC_ID	
values:	synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE LLC = BC ID	
	synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE	
	HLC = HLC ID	
Comments:		

II xx NS	Other ref.:	
MCID 01	Q.1601 clause 12.7	
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/MCID	
ISDN selection	Numb_Trans,	
criteria:		
Test purpose:	Ensure that if the MCID is invoked by the called user in the active call state, the call is	
	registered.	
	The service switching point shall pass a received IDR message transparently to the	
	preceding exchange. The subsequent IRS message is passed transparently to the	
	succeeding exchange. If bit A of the MCID request indicators was set to 1, then in	
	addition to the normal procedure the service switching point shall include the charged	
700 (700	party identification parameter, if available, into the IRS message.	
PCO / PO	Initial Detection point	
ISUP/INAP Interface	The service switching point shall pass a received IDR message transparently to the	
parameter Values (note):	preceding exchange. The subsequent IRS message is passed transparently to the succeeding exchange. If bit A of the MCID request indicators was set to 1, then in	
values (note).	addition to the normal procedure the service switching point shall include the charged	
	party identification parameter, if available, into the IRS message.	
	Connect Operation / Continue operation	
	Parameters which were received in the originating user service information and are	
	not replaced by parameters of the Connect Operation / Continue operation are treated	
	according to the normal call procedures.	
	Receiving of Release message	
	Verify that the IUT can successfully release the call like an ordinary transit exchange.	
PCO / PO	Initial Detection point	
ISDN/INAP interface	No action .	
parameter	Sending of backward messages	
Values (note):	No action	
	Receiving of a Release message	
	No action	
ISDN parameter	BC = BC_ID	
values:	synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE	
	LLC = BC_ID	
	synchronous/ asynchronous mode: MODE user rate: USER_RATE	
	HLC = HLC_ID	
Comments:	TILO - TILO_ID	
Comments.		

II xx NS	Other ref.:	
ECT 01	Q.1601 clause 12.6.1	
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/ECT	
ISDN selection	Numb Trans.	
criteria:		
Test purpose:	User A is in network N1 and is provided with ECT using implicit linkage. User B and	
	user C are in network N2.	
	Ensure that the invocation of ECT from user A is not possible in which the call A-B is in	
	the Active call state -Call Held auxiliary state and the call A-C is in the Active call	
	state if the "suppress information" was received in the INAP	
	serviceInteractionIndicatorsTwo (call transfer notification treatment indicator).	
PCO / PO	Initial Detection point	
ISUP/INAP Interface	If "suppress information" was received in the INAP serviceInteractionIndicatorsTwo (call	
parameter	transfer notification treatment indicator), then the following parameter shall be discarded,	
Values (note):	if received:	
	a) generic notification indicator parameter with either "call transfer, alerting" or "call	
	transfer, active";	
	b) call transfer number parameter.	
	Connect Operation / Continue operation	
	Parameters which were received in the originating user service information and are	
	not replaced by parameters of the Connect Operation / Continue operation are treated	
	according to the normal call procedures.	
	Receiving of Release message Verify that the UT can successfully release the call like an ordinary transit exchange	
PCO / PO	Verify that the IUT can successfully release the call like an ordinary transit exchange. Initial Detection point	
ISDN/INAP interface	No action	
parameter	Sending of backward messages	
Values (note):	No action	
(11010)	Receiving of a Release message	
	No action	
ISDN parameter	BC = BC ID	
values:	synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE	
	LLC = BC_ID	
	synchronous/ asynchronous mode: MODE	
	user rate: USER_RATE	
	HLC = HLC_ID	
Comments:		

Annex A (normative): GSM SETUP_PAR_ID parameter values

VA_01 SSM BC_ID = speech MODE: G_USER_RATE: - LLC_ID = - MODE: USER_RATE: - HLC_ID = - MODE: USER_RATE: - HLC_ID = - MODE: G_USER_RATE: - HLC_ID = - MODE: G_USER_RATE: - HLC_ID = - MODE: USER_RATE: - HLC_ID = - MODE: Synchronous G_USER_RATE: - LSER_RATE: -		Values for test purposes GGxx N_ xx
G_USER_RATE: - LLC_ID = -	VA_01	
LLC_ID =	_	
LLC_ID =		G USER RATE: -
MODE:		
USER_RATE: - HLC_ID =		
HLC_ID = * VA_02		
VA_02 GSM-BC_ID = speech MODE: - G_USER_RATE: - LLC_ID = - MODE: - USER_RATE: - LLC_ID = - USER_RATE: - LLC_ID = Telephony GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: synchronous G_USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: synchronous G_USER_RATE: 2,4 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 2,4 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 4,8 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 4,8 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 4,8 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 4,8 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 9,6 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 9,6 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 9,6 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 9,6 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio MODE: asynchronous USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio MODE: asynchronous USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio MODE: asynchronous USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio MODE: asynchronous USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio MODE: asynchronous USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio MODE: asynchronous USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio MODE: asynchronous USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio MODE: asynchronous USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio MODE: asynchronous USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio MODE: asynchronous USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio MODE: asynchronous USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio MO		
MODE: - G_USER_RATE: - LLC_ID = - MODE: - USER_RATE: - HLC_ID = Telephony VA_03	VA 02	
G_USER_RATE: - LLC_ID = - MODE: - USER_RATE: - HLC_ID = 1 USER_RATE: - HLC_ID = 1 USER_RATE: - HLC_ID = 3.1 kHz audio ex PLMN, voice band via modem	VA_02	
LLC_ID = - MODE:		
MODE: - USER_RATE: + HLC_ID = Telephony		
USER_RATE: - HLC_ID = Telephony		
HLC_ID = Telephony		
VA_03		
modem		
MODE: synchronous G_USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 1,2 kbit/s HLC_ID = 3.1 kHz audio ex PLMN, voice band via modem MODE: synchronous GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: synchronous G_USER_RATE: 2,4 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 2,4 kbit/s HLC_ID = 3.0 km. MODE: synchronous USER_RATE: 2,4 kbit/s HLC_ID = 3.1 kHz audio MODE: synchronous G_USER_RATE: 4,8 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 4,8 kbit/s HLC_ID = -	VA_03	GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via
G_USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 1,2 kbit/s HLC_ID = - GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: synchronous G_USER_RATE: 2,4 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 2,4 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 2,4 kbit/s HLC_ID = - VA_05		modem
G_USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 1,2 kbit/s HLC_ID = - GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: synchronous G_USER_RATE: 2,4 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 2,4 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 2,4 kbit/s HLC_ID = - VA_05		MODE: synchronous
LLC_ID = 3,1 kHz audio		
MODE: synchronous USER_RATE: 1,2 kbit/s		
USER_RATE: 1,2 kbit/s		
HLC_ID = - VA_04		
VA_04 GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: synchronous G_USER_RATE: 2,4 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 2,4 kbit/s HLC_ID = - VA_05 GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: synchronous G_USER_RATE: 4,8 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 4,8 kbit/s HLC_ID = - VA_06 GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: synchronous USER_RATE: 9,6 kbit/s LLC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: synchronous USER_RATE: 9,6 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 9,6 kbit/s HLC_ID = - VA_07 GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: synchronous USER_RATE: 1,2 kbit/s HLC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: asynchronous G_USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio		
modem MODE: synchronous G_USER_RATE: 2,4 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 2,4 kbit/s HLC_ID = - VA_05 GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: synchronous G_USER_RATE: 4,8 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 4,8 kbit/s HLC_ID = - VA_06 GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: synchronous G_USER_RATE: 9,6 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 9,6 kbit/s HLC_ID = - VA_07 GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: synchronous USER_RATE: 9,6 kbit/s HLC_ID = - GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: asynchronous G_USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio MODE: asynchronous	VA 04	GSM_BC_ID = 3.1 kHz audio av PI MN_voice hand via
MODE: synchronous G_USER_RATE: 2,4 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 2,4 kbit/s HLC_ID = - VA_05 VA_05 GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: synchronous G_USER_RATE: 4,8 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 4,8 kbit/s HLC_ID = - VA_06 GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: synchronous G_USER_RATE: 9,6 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous G_USER_RATE: 9,6 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 9,6 kbit/s LLC_ID = - GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: synchronous USER_RATE: 9,6 kbit/s HLC_ID = - GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: asynchronous G_USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio MODE: asynchronous	VA_0 1	'
G_USER_RATE: 2,4 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 2,4 kbit/s HLC_ID = - VA_05 GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: synchronous G_USER_RATE: 4,8 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 4,8 kbit/s HLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 4,8 kbit/s HLC_ID = - VA_06 GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: synchronous G_USER_RATE: 9,6 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 9,6 kbit/s HLC_ID = - VA_07 GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: asynchronous USER_RATE: 1,2 kbit/s HLC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: asynchronous G_USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio MODE: asynchronous		
LLC_ID = 3,1 kHz audio		
MODE: synchronous		
USER_RATE: 2,4 kbit/s HLC_ID = - VA_05 GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: synchronous G_USER_RATE: 4,8 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 4,8 kbit/s HLC_ID = - VA_06 GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: synchronous G_USER_RATE: 9,6 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 9,6 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 9,6 kbit/s HLC_ID = - VA_07 GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: asynchronous G_USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio MODE: asynchronous G_USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio MODE: asynchronous		
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MODE: synchronous USER_RATE: 4,8 kbit/s HLC_ID = - VA_06 GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: synchronous G_USER_RATE: 9,6 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 9,6 kbit/s HLC_ID = - VA_07 GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: asynchronous G_USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio MODE: asynchronous		G_USER_RATE: 4,8 kbit/s
USER_RATE: 4,8 kbit/s HLC_ID = - VA_06 GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: synchronous G_USER_RATE: 9,6 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 9,6 kbit/s HLC_ID = - VA_07 GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: asynchronous G_USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio MODE: asynchronous		LLC_ID = 3,1 kHz audio
USER_RATE: 4,8 kbit/s HLC_ID = - VA_06 GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: synchronous G_USER_RATE: 9,6 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 9,6 kbit/s HLC_ID = - VA_07 GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: asynchronous G_USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio MODE: asynchronous		MODE: synchronous
VA_06 GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: synchronous G_USER_RATE: 9,6 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 9,6 kbit/s HLC_ID = - VA_07 GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: asynchronous G_USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio MODE: asynchronous G_USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio MODE: asynchronous		
VA_06 GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: synchronous G_USER_RATE: 9,6 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 9,6 kbit/s HLC_ID = - VA_07 GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: asynchronous G_USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio MODE: asynchronous		
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G_USER_RATE: 9,6 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 9,6 kbit/s HLC_ID = - VA_07 GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: asynchronous G_USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio MODE: asynchronous		
LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 9,6 kbit/s HLC_ID = - VA_07 GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: asynchronous G_USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio MODE: asynchronous		
MODE: synchronous USER_RATE: 9,6 kbit/s HLC_ID = - VA_07 GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: asynchronous G_USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio MODE: asynchronous		
USER_RATE: 9,6 kbit/s HLC_ID = - VA_07 GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: asynchronous G_USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio MODE: asynchronous		
HLC_ID = - VA_07 GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: asynchronous G_USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio MODE: asynchronous		
VA_07 GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via modem MODE: asynchronous G_USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio MODE: asynchronous		
modem MODE: asynchronous G_USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio MODE: asynchronous	\/A 07	
MODE: asynchronous G_USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio MODE: asynchronous	VA_0/	
G_USER_RATE: 1,2 kbit/s LLC_ID = 3,1 kHz audio MODE: asynchronous		
LLC_ID = 3,1 kHz audio MODE: asynchronous		
MODE: asynchronous		
USER_RATE: 1,2 kbit/s		
HLC_ID = -		

	Values for test purposes GGxx N_ xx
VA_08	GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via
	modem
	MODE: asynchronous
	G_USER_RATE: 2,4 kbit/s
	LLC_ID = 3,1 kHz audio MODE: asynchronous
	USER_RATE: 2,4 kbit/s
	HLC_ID = -
VA 09	GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via
_	modem
	MODE: asynchronous
	G_USER_RATE: 4,8 kbit/s
	LLC_ID = 3,1 kHz audio
	MODE: asynchronous
	USER_RATE: 4,8 kbit/s HLC_ID = -
VA_10	GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via
V/_10	modem
	MODE: asynchronous
	G_USER_RATE: 9,6 kbit/s
	LLC_ID = 3,1 kHz audio
	MODE: asynchronous
	USER_RATE: 9,6 kbit/s HLC_ID = -
VA_11	GSM-BC = 3,1 kHz audio ex PLMN, voice band data via
\\\\\\\	modem.
	MODE: synchronous
	USER_RATE: 14,4 kbit/s
	FNU_RATE: 14,4 kbit/s
	No_TCH: 3
	AIU_RATE: 14.4 kbit/s
VA_12	TCH_FX_X: 4,8 GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via
VA_12	modem
	MODE: synchronous
	USER_RATE: 19,2 kbit/s
	FNU_RATE: 19,2 kbit/s
	No_TCH: 2
	AIU_RATE: 19,2 kbit/s TCH_FX_X: 9,6
VA_13	GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via
V/_10	modem
	MODE: synchronous
	USER_RATE: 28,8 kbit/s
	FNU_RATE: 28,8 kbit/s
	No_TCH: 3
	AIU_RATE: 28,8 kbit/s TCH_FX_X: 9,6
VA_14	GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via
1	modem
	MODE: synchronous
	USER_RATE: 34,4 kbit/s
	FNU_RATE: 34,4 kbit/s
	No_TCH: 4
	AIU_RATE: 38,8 kbit/s TCH_FX_X: 9,6
VA_15	GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via
1	modem
	MODE: synchronous
	USER_RATE: 48,0 kbit/s
	FNU_RATE: 48,0 kbit/s
	No_TCH: 4
	AIU_RATE: 57,6 kbit/s TCH_FX_X: 14,4
	ΙΟΠ_ΓΛ_Λ. 14,4

Val	ues for test purposes GGxx N_ xx
VA_16	GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via
	modem
	MODE: synchronous
	USER_RATE: 56,0 kbit/s
	FNU_RATE: 56,0 kbit/s transparent
	No_TCH: 4
	AIU_RATE: 57,6 kbit/s
	TCH_FX_X: 14,4
VA_17	GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via
	modem
	MODE: synchronous
	USER_RATE: 64 kbit/s
	FNU_RATE: 64 kbit/s transparent
	No_TCH: 4
	AIU_RATE: 57,6 kbit/s
VA_18	TCH_FX_X: 14,4 GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via
VA_10	modem
	MODE: asynchronous
	USER_RATE: 14,4 kbit/s
	FNU_RATE: 14,4 kbit/s
	No_TCH: 1
	AIU_RATE: 14,4 kbit/s
	TCH_FX_X:14,4
VA_19	GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via
	modem
	MODE: asynchronous
	USER_RATE: 19,2 kbit/s
	FNU_RATE: 19,2 kbit/s
	No_TCH: 4
	AIU_RATE: 19,2 kbit/s
	TCH_FX_X: 4,8
VA_20	GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via
	modem
	MODE: asynchronous
	USER_RATE: 28,8 kbit/s
	FNU_RATE: 28,8 kbit/s
	No_TCH: 2
	AIU_RATE: 28,8 kbit/s
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	TCH_FX_X:14,4
VA_21	GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via
	modem
	MODE: asynchronous
	USER_RATE: 34,4 kbit/s FNU_RATE: 34,4 kbit/s
	No_TCH: 4
	AIU_RATE: 38,8 kbit/s
	TCH_FX_X:9,6
VA_22	GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via
\\\\	modem
	MODE: asynchronous
	USER_RATE: 48,0 kbit/s
	FNU_RATE: 48,0 kbit/s
	No_TCH: 4
	AIU_RATE: 57,6 kbit/s
	TCH_FX_X: 14,4
VA_23	GSM_BC_ID = UDI
	MODE: synchronous
	G_USER_RATE: 1,2 kbit/s
	LLC_ID = UDI
	MODE: synchronous
	USER_RATE: 1,2 kbit/s
	HLC_ID = -

	Values for test purposes GGxx N_ xx
VA_24	GSM_BC_ID = UDI
	MODE: synchronous
	G_USER_RATE: 2,4 kbit/s
	LLC_ID = UDI
	MODE: synchronous
	USER_RATE: 2,4 kbit/s
VA 05	HLC_ID = -
VA_25	GSM_BC_ID = UDI
	MODE: synchronous
	G_USER_RATE: 4,8 kbit/s
	LLC_ID = UDI
	MODE: synchronous USER_RATE: 4,8 kbit/s
	HLC_ID = -
VA_26	GSM_BC_ID = UDI
V/_20	MODE: synchronous
	G_USER_RATE: 9,6 kbit/s
	LLC_ID = UDI
	MODE: synchronous
	USER_RATE: 9,6 kbit/s
	HLC_ID = -
VA_27	GSM_BC_ID = UDI
	MODE: asynchronous
	G_USER_RATE: 1,2 kbit/s
	LLC_ID = UDI
	MODE: asynchronous
	USER_RATE: 1,2 kbit/s
	HLC_ID = -
VA_28	GSM_BC_ID = UDI
	MODE: asynchronous
	G_USER_RATE: 2,4 kbit/s
	LLC_ID = UDI MODE: asynchronous
	USER_RATE: 2,4 kbit/s
	HLC_ID = -
VA 29	GSM_BC_ID = UDI
V/(_25	MODE: asynchronous
	G_USER_RATE: 4,8 kbit/s
	LLC_ID = UDI
	MODE: asynchronous
	USER_RATE: 4,8 kbit/s
	HLC_ID = -
VA_30	GSM_BC_ID = UDI
	MODE: asynchronous
	G_USER_RATE: 9,6 kbit/s
	LLC_ID = UDI
	MODE: asynchronous
	USER_RATE: 9,6 kbit/s
\\A04	HLC_ID = -
VA_31	GSM-BC_ID = Facsimile G3
	MODE: -
	G_USER_RATE: - LLC_ID = -
	MODE: -
	USER_RATE: -
	HLC_ID = -
VA_32	GSM-BC_ID = Facsimile G3
02	MODE: -
	G_USER_RATE: -
	LLC_ID = -
	MODE: -
	USER_RATE: -
	HLC_ID = Facsimile G2/G3
<u> </u>	<u> </u>

Annex B (normative): ISDN SETUP_PAR_ID parameter values

Values for	test purposes IGxx N_xx and IIxx N_xx
VA_01	BC_ID = speech
	MODE: -
	USER_RATE: -
	LLC_ID = -
	MODE: -
	USER_RATE: -
1/4 22	HLC_ID = *
VA_02	BC_ID = speech
	MODE: -
	USER_RATE: -
	LLC_ID = -
	MODE: -
	USER_RATE: -
	HLC_ID = Telephony
VA_03	BC_ID = 3,1 kHz audio, voice band via modem
V/1_00	MODE: synchronous
	LLC_ID = 3,1 kHz audio
	MODE: synchronous
	USER_RATE: 1,2 kbit/s
	HLC_ID = -
VA_04	BC_ID = 3,1 kHz audio, voice band via modem
	MODE: synchronous
	USER_RATE: 2,4 kbit/s
	LLC_ID = 3,1 kHz audio
	MODE: synchronous
	USER_RATE: 2,4 kbit/s
	HLC_ID = -
VA_05	BC_ID = 3,1 kHz audio, voice band via modem
V, (_00	MODE: synchronous
	USER_RATE: 4,8 kbit/s
	· · · · · · · · · · · · · · · · · · ·
	LLC_ID = 3,1 kHz audio
	MODE: synchronous
	USER_RATE: 4,8 kbit/s
1/4 00	HLC_ID = -
VA_06	BC_ID = 3,1 kHz audio, voice band via modem
	MODE: synchronous
	USER_RATE: 9,6 kbit/s
	LLC_ID = 3,1 kHz audio
	MODE: synchronous
	USER_RATE: 9,6 kbit/s
	HLC_ID = -
VA_07	BC_ID = 3,1 kHz audio, voice band via modem
	MODE: asynchronous
	G_USER_RATE: 1,2 kbit/s
	LLC_ID = 3,1 kHz audio
	MODE: asynchronous
	•
	USER_RATE: 1,2 kbit/s
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	HLC_ID = -
VA_08	BC_ID = 3,1 kHz audio, voice band via modem
	MODE: asynchronous
	USER_RATE: 2,4 kbit/s
	LLC_ID = 3,1 kHz audio
	MODE: asynchronous
	USER_RATE: 2,4 kbit/s
	HLC_ID = -

	Values for test purposes IG_	_xx N_xx and II_xx N_xx
VA_09		BC_ID = 3,1 kHz audio, voice band via modem
		MODE: asynchronous
		USER_RATE: 4,8 kbit/s
		LLC_ID = 3,1 kHz audio
		MODE: asynchronous
		USER_RATE: 4,8 kbit/s
		HLC_ID = -
VA_10		BC_ID = 3,1 kHz audio, voice band via modem
		MODE: asynchronous
		USER_RATE: 9,6 kbit/s
		LLC_ID = 3,1 kHz audio
		MODE: asynchronous USER_RATE: 9,6 kbit/s
		HLC_ID = -
		BC = 3,1 kHz audio, voice band data via modem,
VA_11		
		MODE: synchronous USER_RATE: 14,4 kbit/s
VA_12		BC_ID = 3,1 kHz audio, voice band via modem
VA_12		MODE: synchronous
		USER_RATE: 19,2 kbit/s
		FNU_RATE: 19,2 kbit/s
VA_13		BC_ID = 3,1 kHz audio, voice band via modem
•10		MODE: synchronous
		USER_RATE: 28,8 kbit/s
VA_14		BC_ID = 3,1 kHz audio, voice band via modem
*/\		MODE: synchronous
		USER_RATE: 34,4 kbit/s
		FNU_RATE: 34,4 kbit/s
VA_15		BC_ID = 3,1 kHz audio, voice band via modem
_		MODE: synchronous
		USER_RATE: 48,0 kbit/s
		FNU_RATE: 48,0 kbit/s
VA_16		BC_ID = 3,1 kHz audio, voice band via modem
		MODE: synchronous
		USER_RATE: 56,0 kbit/s
VA_17		BC_ID = 3,1 kHz audio, voice band via modem
I		MODE: synchronous
		USER_RATE: 64 kbit/s
		FNU_RATE: 64 kbit/s transparent
VA_18		BC_ID = 3,1 kHz audio, voice band via modem
		MODE: asynchronous
\		USER_RATE: 14,4 kbit/s
VA_19		BC_ID = 3,1 kHz audio, voice band via modem
		MODE: asynchronous
١/٨ ٥٥		USER_RATE: 19,2 kbit/s
VA_20		BC_ID = 3,1 kHz audio, voice band via modem
		MODE: asynchronous
VA_21		USER_RATE: 28,8 kbit/s BC_ID = 3,1 kHz audio, voice band via modem
۷ A_ Z I		MODE: asynchronous
		USER_RATE: 34,4 kbit/s
VA_22		BC_ID = 3,1 kHz audio, voice band via modem
v /7_44		MODE: asynchronous
		USER_RATE: 48,0 kbit/s
VA_23		BC_ID = UDI
v/_20		MODE: synchronous
		G_USER_RATE: 1,2 kbit/s
		LLC_ID = UDI
ı		MODE: synchronous
		USER_RATE: 1,2 kbit/s
ı		HLC_ID = -

Values for test purposes IG_	xx N_ xx and IIxx N_ xx
VA_24	BC_ID = UDI
_	MODE: synchronous
	G_USER_RATE: 2,4 kbit/s
	LLC_ID = UDI
	MODE: synchronous
	USER_RATE: 2,4 kbit/s
	HLC_ID = -
VA_25	BC_ID = UDI
	MODE: synchronous
	G_USER_RATE: 4,8 kbit/s
	LLC_ID = UDI
	MODE: synchronous
	USER_RATE: 4,8 kbit/s
	HLC_ID = -
V/A 00	
VA_26	BC_ID = UDI
	MODE: synchronous
	G_USER_RATE: 9,6 kbit/s
	LLC_ID = UDI
	MODE: synchronous
	USER_RATE: 9,6 kbit/s
	HLC_ID = -
VA_27	BC_ID = UDI
V/_21	MODE: asynchronous
	G_USER_RATE: 1,2 kbit/s
	LLC_ID = UDI
	MODE: asynchronous
	USER_RATE: 1,2 kbit/s
	HLC_ID = -
VA_28	BC_ID = UDI
	MODE: asynchronous
	G_USER_RATE: 2,4 kbit/s
	LLC_ID = UDI
	MODE: asynchronous
	USER_RATE: 2,4 kbit/s
	HLC_ID = -
V/A 20	BC ID = UDI
VA_29	
	MODE: asynchronous
	G_USER_RATE: 4,8 kbit/s
	LLC_ID = UDI
	MODE: asynchronous
	USER_RATE: 4,8 kbit/s
	HLC_ID = -
VA_30	BC_ID = UDI
	MODE: asynchronous
	G_USER_RATE: 9,6 kbit/s
	LLC_ID = UDI
	MODE: asynchronous
	USER_RATE: 9,6 kbit/s
	HLC_ID = -
VA_32	BC_ID = 3,1 kHz audio
	MODE: -
	USER_RATE: -
	LLC_ID = -
	MODE: -
	USER_RATE: -
	HLC_ID = Facsimile G2/G3
	1 LO_ID - 1 a03 1 C GZ/G3

Annex C (normative): Interface parameter values

	PCO / PO ISUP/CAP. Interface parameter Values for test purpose GGxx N_ 01			
	ISUP message IAM	CAP operation InitialDP	CAP operation ContinueWithArgument	ISUP message IAM
VA_01	IAM_PAR_ID = Called party number [Nature of address indicator Internal Network Number indicator Numbering plan indicator]	InitialIDP_PAR_ID = calledPartyNumber	-	IAM_PAR_ID = Called party number [Nature of address indicator Internal Network Number indicator Numbering plan indicator]
VA_02	IAM_PAR_ID = Calling party number [Nature of address indicator Number Incomplete indicator (NI) Numbering plan indicator Address presentation restricted indicator Screening indicator]	InitialIDP_PAR_ID =callingPartyNumber	-	IAM_PAR_ID = Calling party number [Nature of address indicator Number Incomplete indicator (NI) Numbering plan indicator Address presentation restricted indicator Screening indicator]
VA_03	Calling party subaddress IE contained in access transport	-	-	Calling party subaddress IE contained in access transport
VA_04	IAM_PAR_ID = Calling party's category	InitialIDP_PAR_ID =callingPartysCategory	CONNECT_PAR_ID = Calling partysCategory	IAM_PAR_ID = Calling party's category
VA_05	IAM_PAR_ID = Location number [Odd/even indicator Nature of address indicator Internal Network Number indicator Numbering plan indicator Address presentation restricted indicator Screening indicator Address signals]	InitialIDP_PAR_ID =locationNumber	-	IAM_PAR_ID = Location number [Odd/even indicator Nature of address indicator Internal Network Number indicator Numbering plan indicator Address presentation restricted indicator Address signals]
VA_06	IAM_PAR_ID = Original called number	InitialIDP_PAR_ID =originalCalledPartyID	-	IAM_PAR_ID = Original Called number
VA_07	IAM_PAR_ID = User teleservice information (1st priority) High layer compatibility IE contained in access transport (2 nd priority) Generic Number	InitialIDP_PAR_ID= highLayerCompatibility AdditionalCalling	-	IAM_PAR_ID = User teleservice information (1st priority) High layer compatibility IE contained in access transport (2 nd priority) Generic Number
7700	"additional calling party number"	PartyNumber		"additional calling party number"

	PCO / PO ISUP/CAP. Interface parameter Values for test purpose GGxx N_ 01			
	ISUP message IAM	CAP operation InitialDP	CAP operation ContinueWithArgument	ISUP message IAM
VA_09	Forward call indicators	-	-	Forward call indicators
VA_10	IAM_PAR_ID = User service information prime (1st priority) User service information (2nd priority) or TMR	InitialIDP_PAR_ID =bearerCapability	-	IAM_PAR_ID = User service information prime (1 st priority) User service information (2nd priority) or TMR
VA_11	IAM_PAR_ID = Redirecting number	InitialIDP_PAR_ID =redirectingPartyID	-	IAM_PAR_ID = Redirecting number
VA_12	IAM _PAR_ID = RedirectionInformatio n	InitialIDP_PAR_ID = Redirection Information	-	IAM _PAR_ID = RedirectionInformation
VA_13	CCSS	-		CCSS
VA_14	Access Transport	-	-	Access Transport
VA_15	Generic Number	-	-	Generic Number

	PCO / PO ISUP/CAP.				
	Interface parameter Values for test purpose GGxx N_02				
	ISUP message IAM	CAP operation InitialDP	CAP operation ContinueWithArgument	ISUP message IAM	
VA_01	IAM_PAR_ID = Called party number [Nature of address indicator Internal Network Number indicator Numbering plan indicator]	InitialIDP_PAR_ID = calledPartyNumber	-	IAM_PAR_ID = Called party number [Nature of address indicator Internal Network Number indicator Numbering plan indicator]	
VA_02	IAM_PAR_ID = Calling party number [Nature of address indicator Number Incomplete indicator (NI) Numbering plan indicator Address presentation restricted indicator]	InitialIDP_PAR_ID =callingPartyNumber	-	IAM_PAR_ID = Calling party number [Nature of address indicator Number Incomplete indicator (NI) Numbering plan indicator Address presentation restricted indicator Screening indicator]	
VA_03	Calling party subaddress IE contained in access transport	-	-	Calling party subaddress IE contained in access transport	
VA_04		InitialIDP_PAR_ID =callingPartysCategory	CONNECT_PAR_ID = Calling partysCategory	IAM_PAR_ID = Calling party's category	

	PCO / PO ISUP/CAP. Interface parameter Values for test purpose GGxx N_ 02				
	ISUP message IAM	CAP operation InitialDP	CAP operation ContinueWithArgument	ISUP message IAM	
VA_05	IAM_PAR_ID =	InitialIDP_PAR_ID	-	IAM_PAR_ID =	
	Location number	=locationNumber		Location number	
	[Odd/even indicator Nature of address indicator Internal Network Number indicator Numbering plan indicator Address presentation restricted indicator Screening indicator			[Odd/even indicator Nature of address indicator Internal Network Number indicator Numbering plan indicator Address presentation restricted indicator Screening indicator	
	Address signals]			Address signals]	
VA_06	IAM_PAR_ID = Original called number	InitialIDP_PAR_ID =originalCalledPartyID	CONNECT_PAR_ID = originalCalledPartyID	IAM_PAR_ID = Original Called number	
VA_07	IAM_PAR_ID = User teleservice information (1st priority) High layer compatibility IE contained in access transport (2 nd priority)	InitialIDP_PAR_ID= highLayerCompatibility	-	IAM_PAR_ID = User teleservice information (1st priority) High layer compatibility IE contained in access transport (2 nd priority)	
VA_08	Generic Number "additional calling party number"	AdditionalCalling PartyNumber	-	Generic Number "additional calling party number"	
VA_09	Forward call indicators	-	-	Forward call indicators	
VA_10	IAM_PAR_ID = User service information prime (1st priority) User service information (2nd priority) or TMR	InitialIDP_PAR_ID =bearerCapability	-	IAM_PAR_ID = User service information prime (1 st priority) User service information (2nd priority) or TMR	
VA_11	IAM_PAR_ID = Redirecting number	InitialIDP_PAR_ID =redirectingPartyID	CONNECT _PAR_ID = redirectingPartyId	IAM_PAR_ID = Redirecting number	
VA_12	IAM _PAR_ID = RedirectionInformation	InitialIDP_PAR_ID = Redirection Information	CONNECT _PAR_ID = RedirectionInformation	IAM _PAR_ID = RedirectionInformation	
VA_13	CCSS	-	-	CCSS	
VA_14	Access Transport	-	-	Access Transport	
VA_15	Generic Number	-	GenericNumbers	Generic Number	

Interface	PCO / PO ISUP/CAP Interface parameter Values for test purpose GGxx N_03 to GGxx N_05, GGxx I_01 to GGxx				
	ISUP message IAM	I_03, GGxxNS CAP operation InitialDP	CAP operation Connect	ISUP message IAM	
VA_01	IAM_PAR_ID = Called party number [Nature of address indicator Internal Network Number indicator Numbering plan indicator]	Initial/DP_PAR_ID = calledPartyNumber	CONNECT_PAR_ID = destinationRoutingAddre ss	IAM_PAR_ID = Called party number [Nature of address indicator Internal Network Number indicator Numbering plan indicator]	
VA_02	IAM_PAR_ID = Calling party number [Nature of address indicator Number Incomplete indicator (NI) Numbering plan indicator Address presentation restricted indicator Screening indicator]	InitialIDP_PAR_ID =callingPartyNumber	-	IAM_PAR_ID = Calling party number [Nature of address indicator Number Incomplete indicator (NI) Numbering plan indicator Address presentation restricted indicator]	
VA_03	Calling party subaddress IE contained in access transport	-	-	Calling party subaddress IE contained in access transport	
VA_04	IAM_PAR_ID = Calling party's category	InitialIDP_PAR_ID =callingPartysCategory	CONNECT_PAR_ID = Calling partysCategory	IAM_PAR_ID = Calling party's category	
VA_05	IAM_PAR_ID = Location number [Odd/even indicator Nature of address indicator Internal Network Number indicator Numbering plan indicator Address presentation restricted indicator Screening indicator Address signals]	InitialIDP_PAR_ID =locationNumber	-	IAM_PAR_ID = Location number [Odd/even indicator Nature of address indicator Internal Network Number indicator Numbering plan indicator Address presentation restricted indicator Screening indicator Address signals]	
VA_06	IAM_PAR_ID = Original called number	InitialIDP_PAR_ID =originalCalledPartyID	CONNECT_PAR_ID =originalCalledPartyID	IAM_PAR_ID = Original Called number	
VA_07	IAM_PAR_ID = User teleservice information (1 st priority) High layer compatibility IE contained in access transport (2 nd priority)	InitialIDP_PAR_ID= HighLayerCompatibility		IAM_PAR_ID = User teleservice information (1st priority) High layer compatibility IE contained in access transport (2 nd priority)	
VA_08	Generic Number "additional calling party number"	AdditionalCalling PartyNumber	AdditionalCalling PartyNumber	Generic Number "additional calling party number"	
VA_09 VA_10	Forward call indicators IAM_PAR_ID = User service information prime (1st priority) User service information (2 nd priority) or TMR	- InitialIDP_PAR_ID =bearerCapability	-	Forward call indicators IAM_PAR_ID = User service information prime (1 st priority) User service information (2nd priority) or TMR	
VA_11	IAM_PAR_ID = Redirecting number	InitialIDP_PAR_ID =redirectingPartyID	CONNECT _PAR_ID = redirecting Partyld	IAM_PAR_ID = Redirecting number	
VA_12	IAM _PAR_ID = RedirectionInformation	InitialIDP_PAR_ID = Redirection Information	CONNECT _PAR_ID = RedirectionInformation	IAM _PAR_ID = RedirectionInformation	

PCO / PO ISUP/CAP Interface parameter Values for test purpose GGxx N_03 to GGxx N_05, GGxx I_01 to GGxx I_03, GG_xxNSCFxx03				
	ISUP message IAM	CAP operation InitialDP	CAP operation Connect	ISUP message IAM
VA_13	CCSS	-	-	CCSS
VA_14	Access Transport	-	-	Access Transport
VA_15	Generic Number	-	-	Generic Number

Interfac	PCO / PO A/CAP Interface parameter Values for test purpose GGxx N_ 01 to GGxx N_ 05, GG_xx I_01 to GG_xx I_03, GG_xxNSCFxx03					
	SETUP	CAP operation InitialDP				
VA_01	SETUP_PAR_ID = Called party number	InitialIDP_PAR_ID = calledPartyNumber				
VA_02	SETUP_PAR_ID = Calling party number	InitialIDP_PAR_ID =callingPartyNumber				
VA_03	SETUP_PAR_ID = Calling party subaddress	InitialIDP_PAR_ID =callingPartySubaddress				
VA_04	SETUP_PAR_ID = Original called number	InitialIDP_PAR_ID =originalCalledPartyID				
VA_05	SETUP_PAR_ID = HLC 1 (1 st priority) HLC 2 (2nd priority)	InitialIDP_PAR_ID=highLayerCompa tibility				
VA_06	SETUP_PAR_ID = BC 1 (1 st priority) SETUP_PAR_ID = BC 2 (2 nd priority)	InitialIDP_PAR_ID =bearerCapability				

	PCO / PO ISUP/INAP Interface parameter Values for test purpose IGxx N_ 01,				
	ISUP message IAM	IIxx N_ 01 INAP operation InitialDP			
VA_01	IAM_PAR_ID = Called party number [Nature of address indicator Internal Network Number indicator Numbering plan indicator]	InitialIDP_PAR_ID = calledPartyNumber			
VA_02	IAM_PAR_ID = Calling party number [Nature of address indicator Number Incomplete indicator (NI) Numbering plan indicator Address presentation restricted indicator Screening indicator]	InitialIDP_PAR_ID =callingPartyNumber			
VA_03	Calling party subaddress IE contained in access transport	-			
VA_04	IAM_PAR_ID = Calling party's category	InitialIDP_PAR_ID =callingPartysCategory			
VA_05	IAM_PAR_ID = Location number [Odd/even indicator Nature of address indicator Internal Network Number indicator Numbering plan indicator Address presentation restricted indicator Screening indicator Address signals]	InitialIDP_PAR_ID =locationNumber			
VA_06	IAM_PAR_ID = Original called number	InitialIDP_PAR_ID =originalCalledPartyID			

	PCO / PO ISUP/INAP Interface parameter Values for test purpose IGxx N_ 01, IIxx N_ 01				
	ISUP message IAM	INAP operation InitialDP			
VA_07	IAM_PAR_ID = User teleservice information (1 st priority) High layer compatibility IE contained in access transport (2 nd priority)	InitialIDP_PAR_ID= HighLayerCompatibility			
VA_08	Generic Number "additional calling party number"	AdditionalCalling PartyNumber			
VA_09	Forward call indicators	ForwardCallIndicators			
VA_10	IAM_PAR_ID = User service information prime (1 st priority) User service information (2nd priority) or TMR	InitialIDP_PAR_ID =bearerCapability			
VA_11	IAM_PAR_ID = Redirecting number	InitialIDP_PAR_ID =redirectingPartyID			
VA_12	IAM _PAR_ID = RedirectionInformation	InitialIDP_PAR_ID = Redirection Information			
VA_13	CCSS	-			
VA_14	Access Transport	isdnAccessRelated Information			
VA_15	Generic Number	GenericNumbers			
VA_16	TNS	carrier			
VA_17	Calling geodetic location	CallingGeodeticLocation			

	PCO / PO ISUP/INAP Interface parameter Values for test purpose IGxx N_ 02, IIxx N_ 02				
	ISUP message IAM	INAP operation InitialDP	INAP operation ContinueWithArgument	ISUP message	
VA_01	IAM_PAR_ID = Called party number [Nature of address indicator Internal Network Number indicator Numbering plan indicator]	InitialIDP_PAR_ID = calledPartyNumber	-	IAM_PAR_ID = Called party number [Nature of address indicator Internal Network Number indicator Numbering plan indicator]	
VA_02	IAM_PAR_ID = Calling party number [Nature of address indicator Number Incomplete indicator (NI) Numbering plan indicator Address presentation restricted indicator Screening indicator]	InitialIDP_PAR_ID =callingPartyNumber	callingPartyNumber	IAM_PAR_ID = Calling party number [Nature of address indicator Number Incomplete indicator (NI) Numbering plan indicator Address presentation restricted indicator Screening indicator]	
VA_03	Calling party subaddress IE contained in access transport	-	-	Calling party subaddress IE contained in access transport	
VA_04	IAM_PAR_ID = Calling party's category	InitialIDP_PAR_ID =callingPartysCategory	CONNECT_PAR_ID = Calling partysCategory	IAM_PAR_ID = Calling party's category	

	Interface paran	neter Values for test purp		x N_ 02
	ISUP message IAM	INAP operation InitialDP	INAP operation ContinueWithArgument	ISUP message IAM
VA_05	IAM_PAR_ID = Location number	InitialIDP_PAR_ID =locationNumber	-	IAM_PAR_ID = Location number
	[Odd/even indicator Nature of address indicator Internal Network Number indicator Numbering plan indicator Address presentation restricted indicator Screening indicator Address signals]			[Odd/even indicator Nature of address indicator Internal Network Number indicator Numbering plan indicator Address presentation restricted indicator Screening indicator Address signals]
VA_06	IAM_PAR_ID = Original called number	InitialIDP_PAR_ID =originalCalledPartyID	CONNECT_PAR_ID =originalCalledPartyID	IAM_PAR_ID = Original Called number
VA_07	IAM_PAR_ID = User teleservice information (1st priority) High layer compatibility IE contained in access transport (2 nd priority)	InitialIDP_PAR_ID= HighLayerCompatibility	-	IAM_PAR_ID = User teleservice information (1st priority) High layer compatibility IE contained in access transport (2 nd priority)
VA_08	Generic Number "additional calling party number"	AdditionalCalling PartyNumber	-	Generic Number "additional calling party number"
VA_09	Forward call indicators	forwardCallIndicators	forwardCallIndicators	Forward call indicators
VA_10	IAM_PAR_ID = User service information prime (1st priority) User service information (2nd priority) or TMR	InitialIDP_PAR_ID =bearerCapability	-	IAM_PAR_ID = User service information prime (1 st priority) User service information (2nd priority) or TMR
VA_11	IAM_PAR_ID = Redirecting number	InitialIDP_PAR_ID =redirectingPartyID	CONNECT _PAR_ID = redirectingPartyId	IAM_PAR_ID = Redirecting number
VA_12	IAM _PAR_ID = RedirectionInformatio	InitialIDP_PAR_ID = Redirection Information	CONNECT_PAR_ID = RedirectionInformation	IAM _PAR_ID = redirectionInformation
VA_13	CCSS	-	-	CCSS
VA_14	Access Transport	isdnAccessRelated Information	isdnAccessRelated Information	Access Transport
VA_15	Generic Number	GenericNumbers	GenericNumbers	Generic Number
VA_16 VA_17	TNS Calling geodetic	carrier callingGeodeticLocation	carrier	TNS
	location	3		0 14 1 13
VA_18			ServiceInteractionIndicator sTwo	See Mapping of the INAP serviceInteractionIndicat orsTwo) in the chapter Supplementary Services

	Interface param	PCO / PO IS neter Values for test purp	SUP/INAP. ose IGxx N_ 03, II	_xx N_ 03
	ISUP message IAM	INAP operation InitialDP	INAP operation Connect	ISUP message IAM
VA_01	IAM_PAR_ID = Called party number [Nature of address indicator Internal Network Number indicator Numbering plan indicator]	InitialIDP_PAR_ID = calledPartyNumber	DestinationRouting Address	IAM_PAR_ID = Called party number [Nature of address indicator Internal Network Number indicator Numbering plan indicator]
VA_02	IAM_PAR_ID = Calling party number [Nature of address indicator Number Incomplete indicator (NI) Numbering plan indicator Address presentation restricted indicator Screening indicator]	InitialIDP_PAR_ID =callingPartyNumber	CallingPartyNumber	IAM_PAR_ID = Calling party number [Nature of address indicator Number Incomplete indicator (NI) Numbering plan indicator Address presentation restricted indicator Screening indicator]
VA_03	Calling party subaddress IE contained in access transport	CallingPartySubaddress	-	Calling party subaddress IE contained in access transport
VA_04	IAM_PAR_ID = Calling party's category	InitialIDP_PAR_ID =callingPartysCategory	CONNECT_PAR_ID = Calling partysCategory	IAM_PAR_ID = Calling party's category
VA_05	IAM_PAR_ID = Location number [Odd/even indicator Nature of address indicator Internal Network Number indicator Numbering plan indicator Address presentation restricted indicator Screening indicator Address signals]	InitialIDP_PAR_ID =locationNumber	-	IAM_PAR_ID = Location number [Odd/even indicator Nature of address indicator Internal Network Number indicator Numbering plan indicator Address presentation restricted indicator Screening indicator Address signals]
VA_06	IAM_PAR_ID = Original called number	InitialIDP_PAR_ID =originalCalledPartyID	CONNECT_PAR_ID = originalCalledPartyID	IAM_PAR_ID = Original Called number
VA_07	IAM_PAR_ID = User teleservice information (1 st priority) High layer compatibility IE contained in access transport (2 nd priority)	InitialIDP_PAR_ID= highLayerCompatibility	-	IAM_PAR_ID = User teleservice information (1st priority) High layer compatibility IE contained in access transport (2 nd priority)
VA_08	Generic Number "additional calling party number"	AdditionalCalling PartyNumber	-	Generic Number "additional calling party number"
VA_09	Forward call indicators	forwardCallIndicators	ForwardCallIndicators	Forward call indicators

	PCO / PO ISUP/INAP.				
	Interface paran	neter Values for test purp	ose IGxx N_ 03, II:	xx N_ 03	
	ISUP message	INAP operation	INAP operation	ISUP message	
	IAM	InitiaIDP	Connect	IAM	
VA_10	IAM_PAR_ID = User service information prime (1st priority) User service information (2nd priority) or TMR	InitialIDP_PAR_ID =bearerCapability	-	IAM_PAR_ID = User service information prime (1 st priority) User service information (2nd priority) or TMR	
VA_11	IAM_PAR_ID =	InitialIDP_PAR_ID	CONNECT_PAR_ID =	IAM_PAR_ID =	
	Redirecting number	=redirectingPartyID	redirectingPartyId	Redirecting number	
VA_12	IAM _PAR_ID =	InitialIDP_PAR_ID =	CONNECT _PAR_ID =	IAM _PAR_ID =	
	RedirectionInformatio n	Redirection Information	RedirectionInformation	redirectionInformation	
VA_13	CCSS	-	-	CCSS	
VA_14	Access Transport	isdnAccessRelated Information	IsdnAccessRelated Information	Access Transport	
VA_15	Generic Number	GenericNumbers	GenericNumbers	Generic Number	
VA_16	TNS	carrier	Carrier	TNS	
VA_17	Calling geodetic location	callingGeodeticLocation			
			ServiceInteractionIndicat orsTwo	See Mapping of the INAP serviceInteractionIndicato rsTwo)	

	PCO / PO ISUP/INAP				
	Interface para	meter Values for test pur		xx N 04	
	ISUP message IAM	INAP operation InitialDP	INAP operation Connect	ISUP message IAM	
VA_01	IAM_PAR_ID = Called party number [Nature of address indicator Internal Network Number indicator Numbering plan indicator]	InitialIDP_PAR_ID = calledPartyNumber	DestinationRouting Address	IAM_PAR_ID = Called party number [Nature of address indicator Internal Network Number indicator Numbering plan indicator]	
VA_02	IAM_PAR_ID = Calling party number [Nature of address indicator Number Incomplete indicator (NI) Numbering plan indicator Address presentation restricted indicator Screening indicator]	InitialIDP_PAR_ID =callingPartyNumber	CallingPartyNumber	IAM_PAR_ID = Calling party number [Nature of address indicator Number Incomplete indicator (NI) Numbering plan indicator Address presentation restricted indicator Screening indicator]	
VA_03	Calling party subaddress IE contained in access transport	CallingPartySubaddress	-	Calling party subaddress IE contained in access transport	
VA_04	IAM_PAR_ID = Calling party's category	InitialIDP_PAR_ID =callingPartysCategory	CONNECT_PAR_ID = Calling partysCategory	IAM_PAR_ID = Calling party's category	

	Interface para	PCO / PO meter Values for test pur	ISUP/INAP pose IGxx N_ 04, II	_xx N_ 04
	ISUP message IAM	INAP operation InitialDP	INAP operation Connect	ISUP message IAM
VA_05	IAM_PAR_ID = Location number [Odd/even indicator Nature of address indicator Internal Network Number indicator Numbering plan indicator Address presentation restricted indicator Screening indicator Address signals]	InitialIDP_PAR_ID =locationNumber	-	IAM_PAR_ID = Location number [Odd/even indicator Nature of address indicator Internal Network Number indicator Numbering plan indicator Address presentation restricted indicator Screening indicator Address signals]
VA_06	IAM_PAR_ID = Original called number	InitialIDP_PAR_ID =originalCalledPartyID	CONNECT_PAR_ID =originalCalledPartyID	IAM_PAR_ID = Original Called number
VA_07	IAM_PAR_ID = User teleservice information (1 st priority) High layer compatibility IE contained in access transport (2 nd priority)	InitialIDP_PAR_ID= HighLayerCompatibility	-	IAM_PAR_ID = User teleservice information (1st priority) High layer compatibility IE contained in access transport (2 nd priority)
VA_08	Generic Number "additional calling party number"	AdditionalCalling PartyNumber	-	Generic Number "additional calling party number"
VA_09	Forward call indicators	forwardCallIndicators	ForwardCallIndicators	Forward call indicators
VA_10	IAM_PAR_ID = User service information prime (1st priority) User service information (2 nd priority) or TMR	InitialIDP_PAR_ID =bearerCapability	-	IAM_PAR_ID = User service information prime (1 st priority) User service information (2nd priority) or TMR
VA_11	IAM_PAR_ID = Redirecting number	InitialIDP_PAR_ID =redirectingPartyID	CONNECT _PAR_ID = redirectingPartyId	IAM_PAR_ID = Redirecting number
VA_12	IAM _PAR_ID = RedirectionInformatio n	InitialIDP_PAR_ID = Redirection Information	CONNECT _PAR_ID = RedirectionInformation	IAM _PAR_ID = redirectionInformation
VA_13	ccss	-	-	CCSS
VA_14	Access Transport	IsdnAccessRelated Information	IsdnAccessRelated Information	Access Transport
VA_15	Generic Number	GenericNumbers	GenericNumbers	Generic Number
VA_16 VA_17	TNS Calling geodetic location	carrier CallingGeodeticLocation	Carrier	TNS
			ServiceInteractionIndicat orsTwo	See Mapping of the INAP serviceInteractionIndicators Two)

PCO / PO ISDN/INAP		
	t purposes: IGxx N_ 01 to IG	
l_04, IIxx N_ 01 to IIxx N_ 05, IIxx I_01 to IIxx I_04		
	SETUP	INAP operation
		InitialDP
VA_01	SETUP_PAR_ID = Called party	InitialIDP_PAR_ID =
	number	calledPartyNumber
VA_02	SETUP_PAR_ID = Calling party	InitialIDP_PAR_ID
	number	=callingPartyNumber
VA_03	SETUP_PAR_ID = Calling party	InitialIDP_PAR_ID
	subaddress	=callingPartySubaddress
VA_04	SETUP_PAR_ID = Original called	InitialIDP_PAR_ID
	number	=originalCalledPartyID
VA_05	SETUP_PAR_ID = HLC 1 (1st	InitialIDP_PAR_ID=highLayerCompa
	priority)	tibility
	HLC 2 (2nd priority)	
VA_06	SETUP_PAR_ID = BC 1 (1 st priority)	InitialIDP_PAR_ID =bearerCapability
	SETUP_PAR_ID = BC 2 (2 nd priority)	

Annex D (informative): Bibliography

ETSI EN 300 092-1: "Integrated Services Digital Network (ISDN); Calling Line Identification Presentation (CLIP) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

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ETSI EN 300 097-1: "Integrated Services Digital Network (ISDN); Connected Line Identification Presentation (COLP) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

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ETSITS 123 081: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); Line Identification supplementary services; Stage 2 (3GPP TS 23.081 version 3.0.0 Release1999)".

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ETSI TS 123 083: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); Call Waiting (CW) and Call Hold (HOLD); Supplementary Service; Stage 2 (3GPP TS 23.083 version 3.1.0 Release 1999)".

ETSI TS 123 084: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); MultiParty (MPTY) Supplementary Service; Stage 2 (3GPP TS 23.084 version 3.1.0 Release 1999)".

ETSI TS 123 085: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); Closed User Group (CUG) Supplementary Service; Stage 2 (3GPP TS 23.085 version 3.0.0 Release 1999)".

ETSI TS 123 086: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); Advice of Charge (AoC) Supplementary Service; Stage 2 (3GPP TS 23.086 version 3.0.0 Release 1999)".

ETSI TS 123 087: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); User-to-User Signalling (UUS) supplementary service; Stage 2(3GPP TS 23.087 version 3.0.0 Release 1999)".

ETSI TS 123 088: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); Call Barring (CB) Supplementary Service; Stage 2 (3GPP TS 23.088 version 3.0.0 Release 1999)".

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ETSI TS 124 082: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); Call Forwarding supplementary service; Stage 3 (3GPP TS 24.082 version 3.0.0 Release 1999)".

ETSI TS 124 083: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3 (3GPP TS 24.083 version 3.0.0 Release 1999)".

ETSI TS 124 084: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); MultiParty (MPTY) Supplementary Service; Stage 3 (3GPP TS 24.084 version 3.0.0 Release 1999)".

ETSI TS 124 085: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); Closed User Group (CUG) Supplementary Service; Stage 3 (3GPP TS 24.085 version 3.0.0 Release 1999)".

ETSI TS 124 086: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); Advice of Charge (AoC) Supplementary Service; Stage 3 (3GPP TS 24.086 version 3.0.0 Release 1999)".

ETSI TS 124 087: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); User-to-User Signalling (UUS); Stage 3 (3GPP TS 24.087 version 3.0.0 Release 1999)".

ETSI TS 124 088: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); Call Barring (CB) Supplementary Service; Stage 3 (3GPP TS 24.088 version 3.0.0 Release 1999)".

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History

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