

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
MT	Mobile Terminated
MTP	Message Transfer Part
NIT	Network Integration Testing
ONP	Open Network Provision
OSI	Open Systems Interconnection
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					IG __SPN__xx					
1	2	3	4	5	6	7	8	9	10	11
I	G	_	_	_	S	P	N	_	x	x

Supplementary Services:

CLIP					IG __xxSSCLIP__xx									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
I	G	_	_	_	X	X	N	S	C	L	I	P	x	x

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 Services	C – Plane / U–Plane Basic_Call	Successful	GG__xxN__xx
		Unsuccessful	GG__xxNUxx

6.1.2 Services with user interactive dialogue

Interactive dialogue	C – Plane / U–Plane Basic_Call	Successful	Speech	GG__SP I__xx
		Unsuccessful	Speech	GG__SP IUxx

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 ISDN/GSM	Control – Plane Basic_Call	Successful	IG__xxN__xx
		Unsuccessful	IG__xxNUxx

6.2.2 Services with user interactive dialogue between mobile and fixed networks

Services with user interactive dialogue ISDN/GSM	Control – Plane Basic_Call	Successful	IG__I_xx
		Unsuccessful	IG_IUxx

6.2.3 Supplementary services between mobile and fixed networks

Supplementary Services	Control – Plane	Services impact by IN	
		CLIP	IG__xx NS CLIPxx
		CLIR	IG__xx NS CLIRxx
		COLP	IG__xx NS COLPxx
		CFxx	IG__xx NS CFxx
		CFU	IG__xx NS CFUxx
		CFB	IG__xx NS CFB xx
		CFNRy	IG__xx NS CFNR xx
		CCBS	IG__xx 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 ISDN	Control – Plane Basic_Call	Successful	II__xxN__xx
		Unsuccessful	II__xxNUxx

6.3.2 Services with user interactive dialogue

Services with user interactive dialogue ISDN/GSM	Control – Plane Basic_Call	Successful	II__I_xx
		Unsuccessful	II_IUxx

6.3.3 Supplementary services

Supplementary Services

Control – Plane

Services impact by IN	
CLIP	II __xx NS CLIPxx
CLIR	II __xx NS CLIRxx
COLP	II __xx NS COLPxx
CFxx	II __xx NS CFxx
CFU	II __xx NS CFUxx
CFB	II __xx NS CFB xx
CFNR	II __xx NS CFNR xx
CD	II __xx NS CDxx
CONF	II __xx NS CONFxx
CCBS	II __xx NS CCBS xx
UUS1	II __xx NS UUS1xx
UUS2	II __xx NS UUS2xx
UUS3	II __xx NS UUS3xx
MCID	II __xx NS MCIDxx
ECT	II __xx NS ECT xx

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

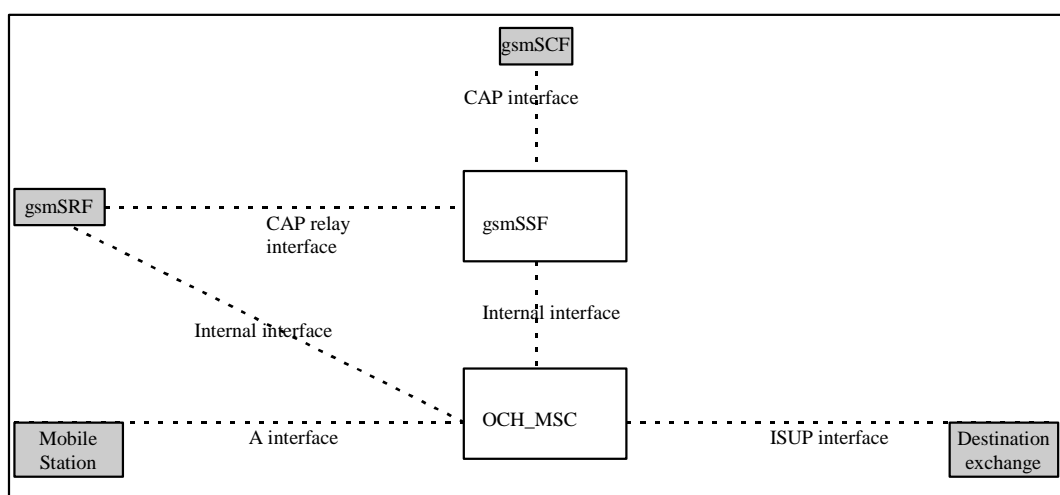


Figure 1: Outgoing case (gsmSSF relay)

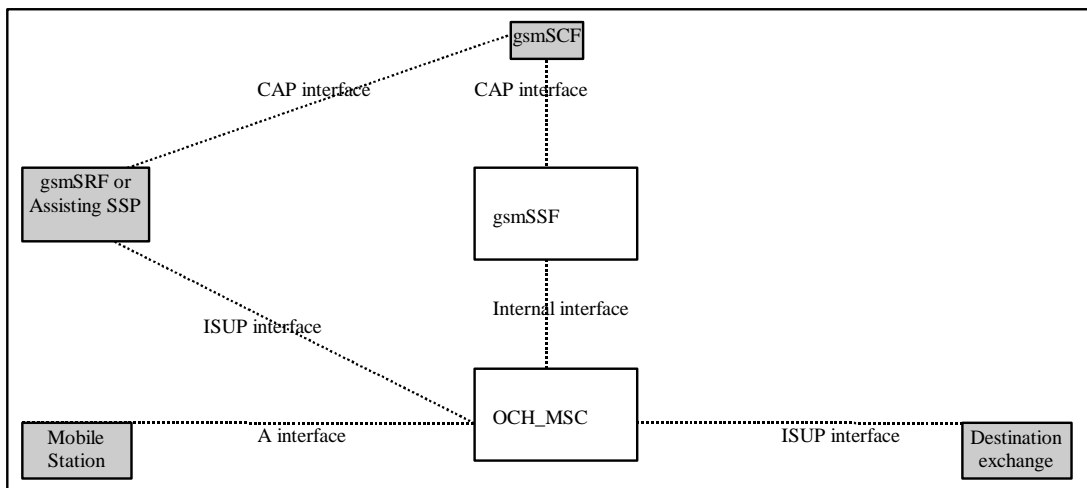


Figure 2: Outgoing case (direct path gsmSCF to gsmSRF or assist with relay)

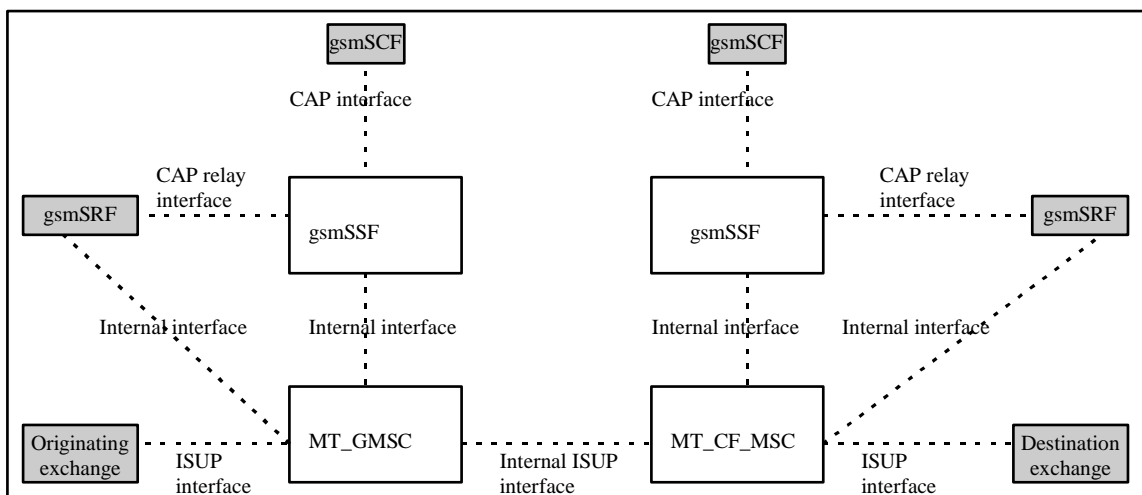


Figure 3: Terminating GMSC case (gsmSSF relay)

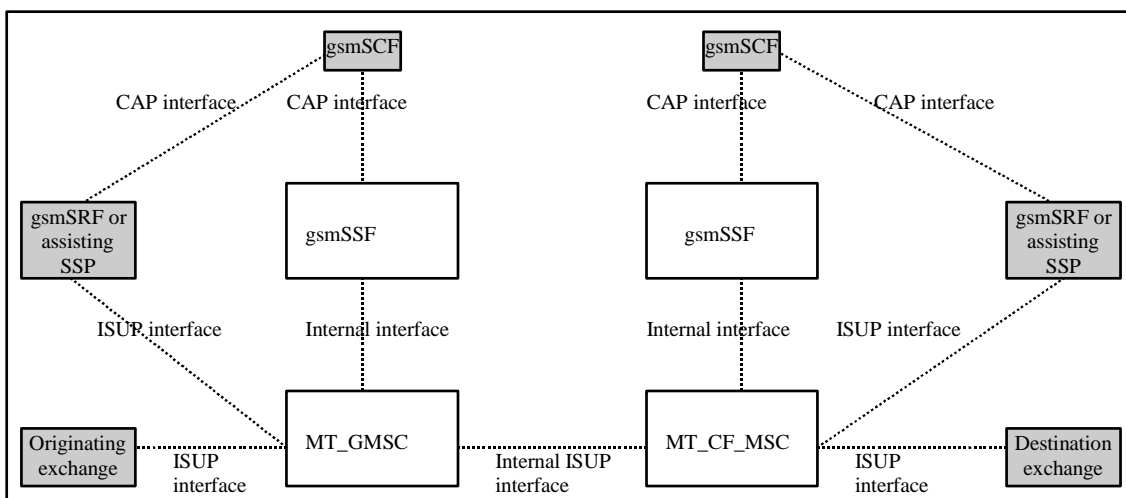


Figure 4: Terminating GMSC case (direct path gsmSCF to gsmSRF or assist with relay)

7.1.2 Test purposes for GSM to GSM, Basic call

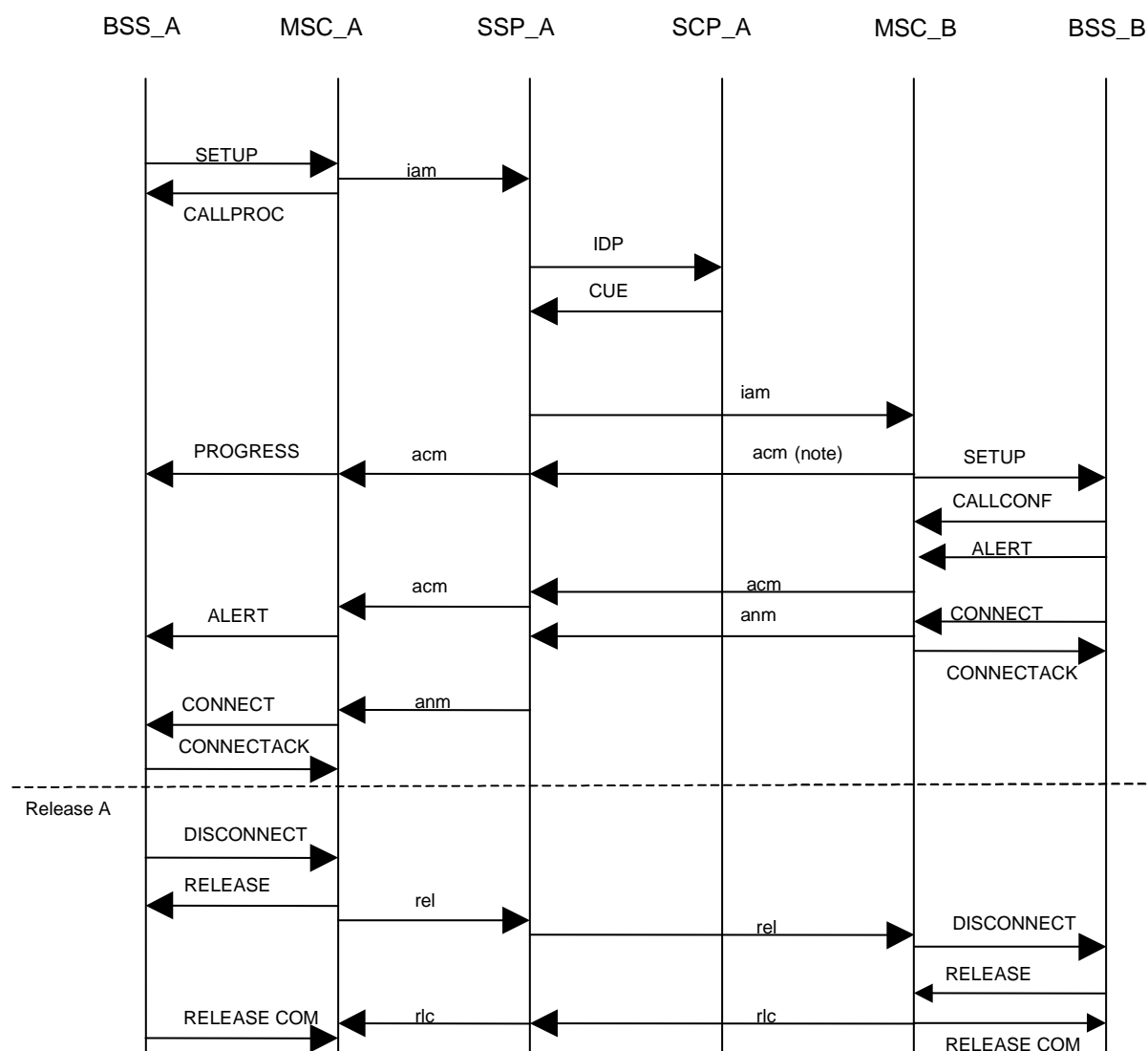
7.1.2.1 Successful

Successful

GG__xx N_ 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	Other ref.:
TSS reference:	GSM to GSM/ Number translation services/Successful	
GSM selection criteria origin.:	Numb_Trans	
GSM selection criteria term.:	Numb_Trans	
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 for re-routing 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 InitialDP_PAR_ID (see annex C). 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 Verify that the IUT can successfully release the call like an ordinary transit exchange.	
PCO / PO A/CAP interface parameter Values (note):	Initial Detection point Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP parameter InitialDP_PAR_ID (see annex C). 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 values origin.:	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	

GG__xx N_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	Other ref.:
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	
Comments:		

GG__SPN_01

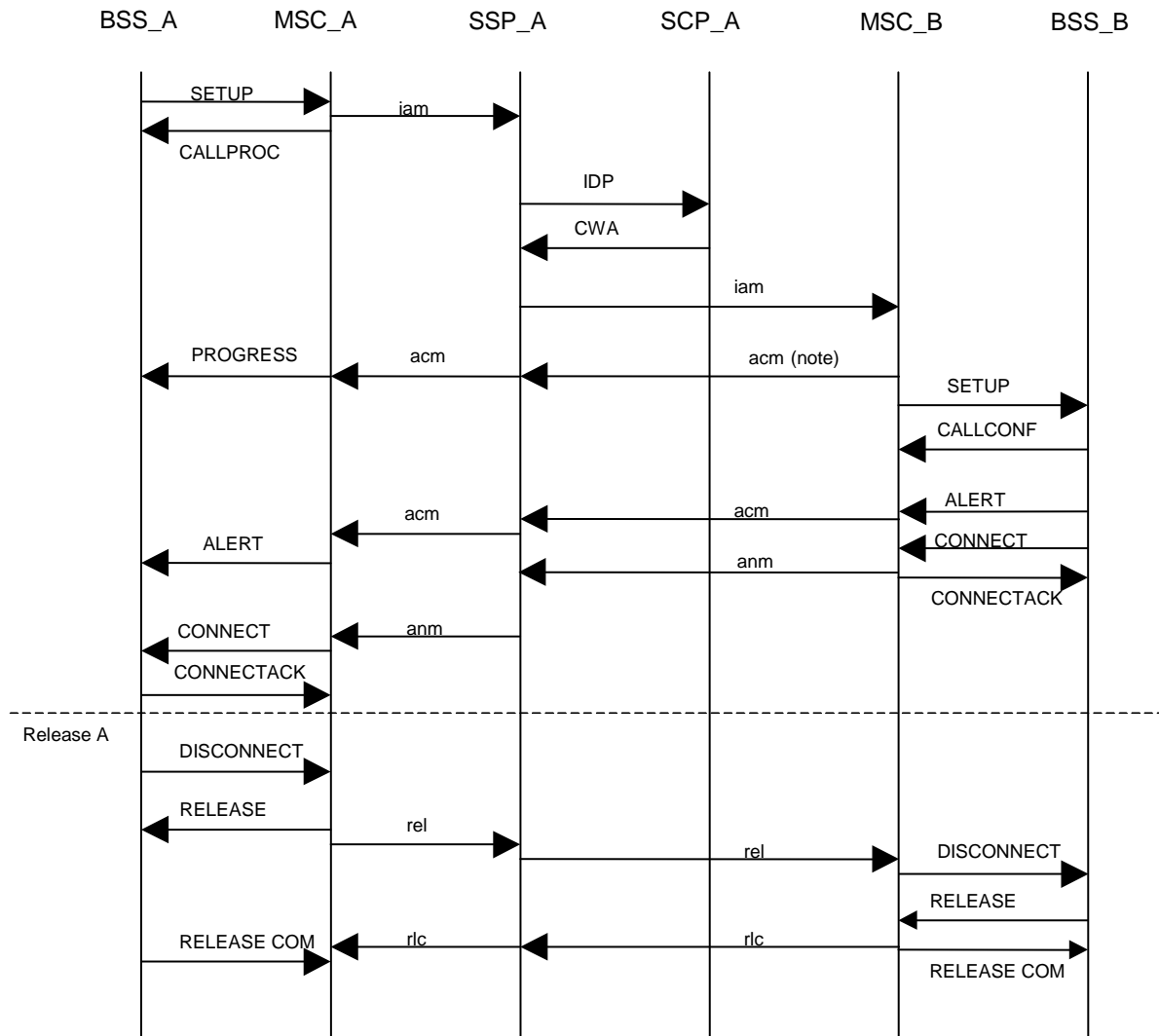


NOTE: The sending of an early ACM message is optional.

Figure 5: Number translation service flow with Continue Message

GG__xx N_ 02	GSM ref. to: 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	Other ref.:
TSS reference:	GSM to GSM/Number translation services/Successful	
GSM selection criteria origin.:	Numb_Trans	
GSM selection criteria term.:	Numb_Trans	
Test purpose:	<p>Verify that the Call is routed to the Called Party Number without any number translation activity in between if the SCP decides that Rerouting and Called Party Number translation are not necessary. Ensure that the parameter received in the ServiceInteractionIndicatorsTwo received from the SCP in the ContinueWithArgument operation will be sent in the IAM by the SSP.</p> <p>Pre test Conditions: A-subscriber provisioned in HLR for re-routing service Location update performed for originating A-Subscriber Terminating B-Subscriber routed to ISUP link</p>	
PCO / PO ISUP/CAP Interface parameter Values (note):	<p>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).</p> <p>Receiving of Continue message On receipt of a Continue operation from the SCP call processing is resumed. Ensure that the CONTINUE_PAR_ID parameters received from the SCP in the ContinueWithArgument operation will be mapped in the IAM by the SSP.</p> <p>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.</p> <p>Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.</p>	
PCO / PO A/CAP interface parameter Values (note):	<p>Initial Detection point Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP parameter InitialDP_PAR_ID (see annex C).</p> <p>Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.</p> <p>Receiving of a Release message Verify that the IUT can successfully release the call.</p>	
GSM parameter values origin.:	<p>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).</p> <p>LLC = BC_ID Synchronous/ asynchronous mode: MODE user rate: USER_RATE</p> <p>HLC = HLC_ID</p>	
GSM parameter values term.:	<p>GSM-BC = GSM-BC_ID Synchronous/ asynchronous mode: MODE user rate: USER_RATE</p> <p>LLC = synchronous/ asynchronous mode: MODE user rate: USER_RATE</p> <p>HLC = HLC_ID</p>	
Comments:		

GG__SPN_02



NOTE: The ACM message is optional.

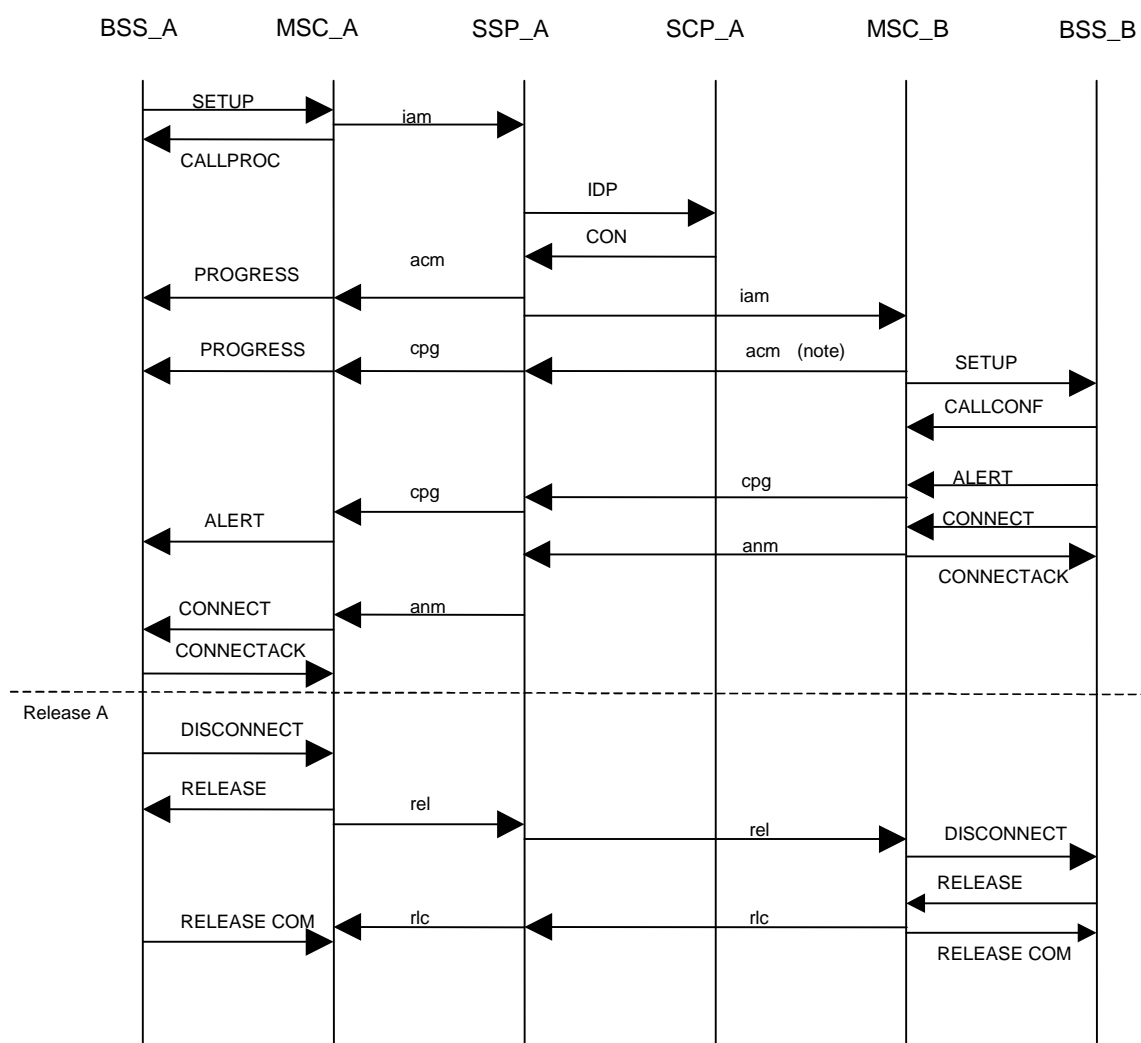
Figure 6: Number translation service flow with Continue with Argument Message

GG__xx N_ 03	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	Other ref.:
TSS reference:	GSM to GSM/ Number translation services/Successful	
GSM selection criteria origin.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
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 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 normal 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 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 A/CAP interface parameter Values (note):	Initial Detection point Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP parameter InitialDP_PAR_ID (see annex C). 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 values origin.:	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	
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

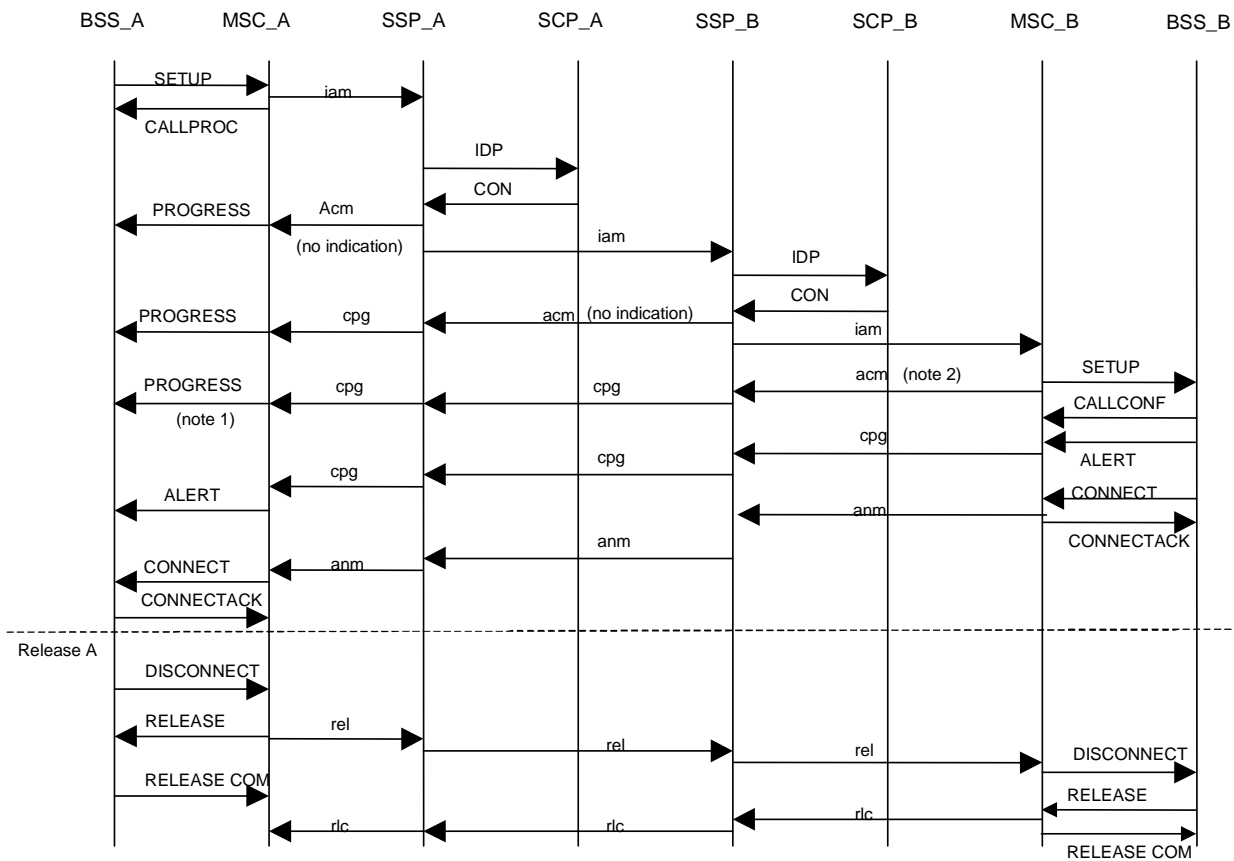


NOTE: The ACM message is optional.

Figure 7: Number translation service flow with Connect Message

GG__xx N_ 04	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	Other ref.:
TSS reference:	GSM to GSM/ Number translation services/Successful	
GSM selection criteria origin.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
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 ISUP/CAP Interface parameter Values (note):	<p>Initial Detection point in IUT 1 Verify that the IUT can successfully map the IAM parameter IAM_PAR_ID to the InitialDP parameter InitialDP_PAR_ID (see annex C).</p> <p>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.</p> <p>Initial Detection point in IUT 2 Verify that the IUT can successfully map the IAM parameter IAM_PAR_ID to the InitialDP parameter InitialDP_PAR_ID (see annex C).</p> <p>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.</p> <p>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.</p> <p>Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.</p>	
PCO / PO A/CAP interface parameter Values (note):	<p>Initial Detection point Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP parameter InitialDP_PAR_ID (see annex C).</p> <p>Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.</p> <p>Receiving of a Release message Verify that the IUT can successfully release the call.</p>	
GSM parameter values origin.:	<p>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).</p> <p>LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID</p>	
GSM parameter values term.:	<p>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</p>	
Comments:		

GG__SPN_04



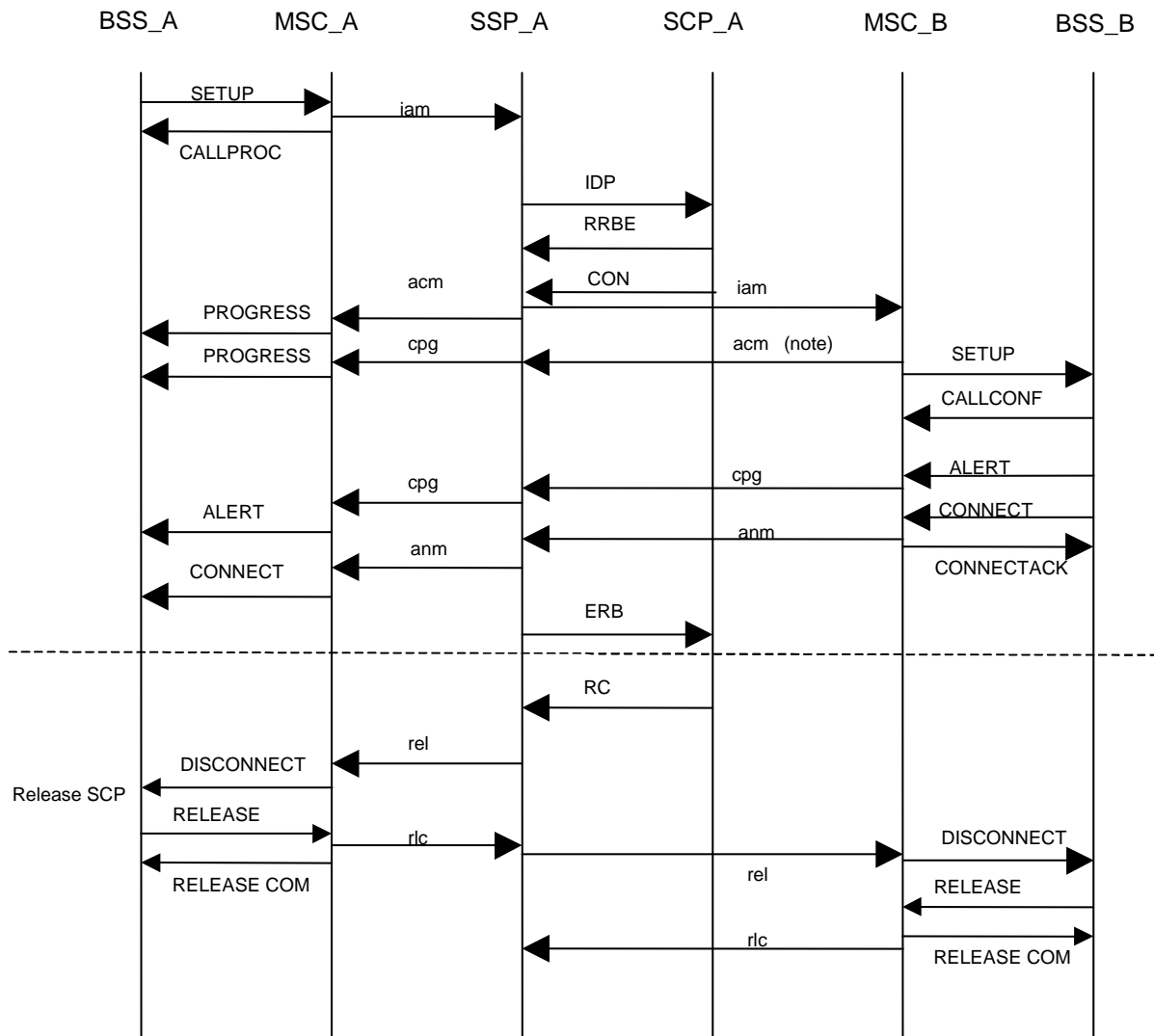
NOTE 1: According to Q.699 the mapping of the contents in the CPG is only relevant if the information received in the message is different compared to earlier information.

NOTE 2: The ACM message is optional.

Figure 8: Number translation service flow for second stage query

GG__xx N_ 05	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	Other ref.:
TSS reference:	GSM to GSM/ Number translation services/Successful	
GSM selection criteria origin.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
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 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 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 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 A/CAP interface parameter Values (note):	Initial Detection point Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP parameter InitialDP_PAR_ID (see annex C). 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 values origin.:	GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE 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	
Comments:	Service logic The SCF alters the destination address. SCF sends RRBE ([O_Answer,notify], [O_Disc,interrupted, legID=1], [O_Disc,interrupted, 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	

GG__SPN_05

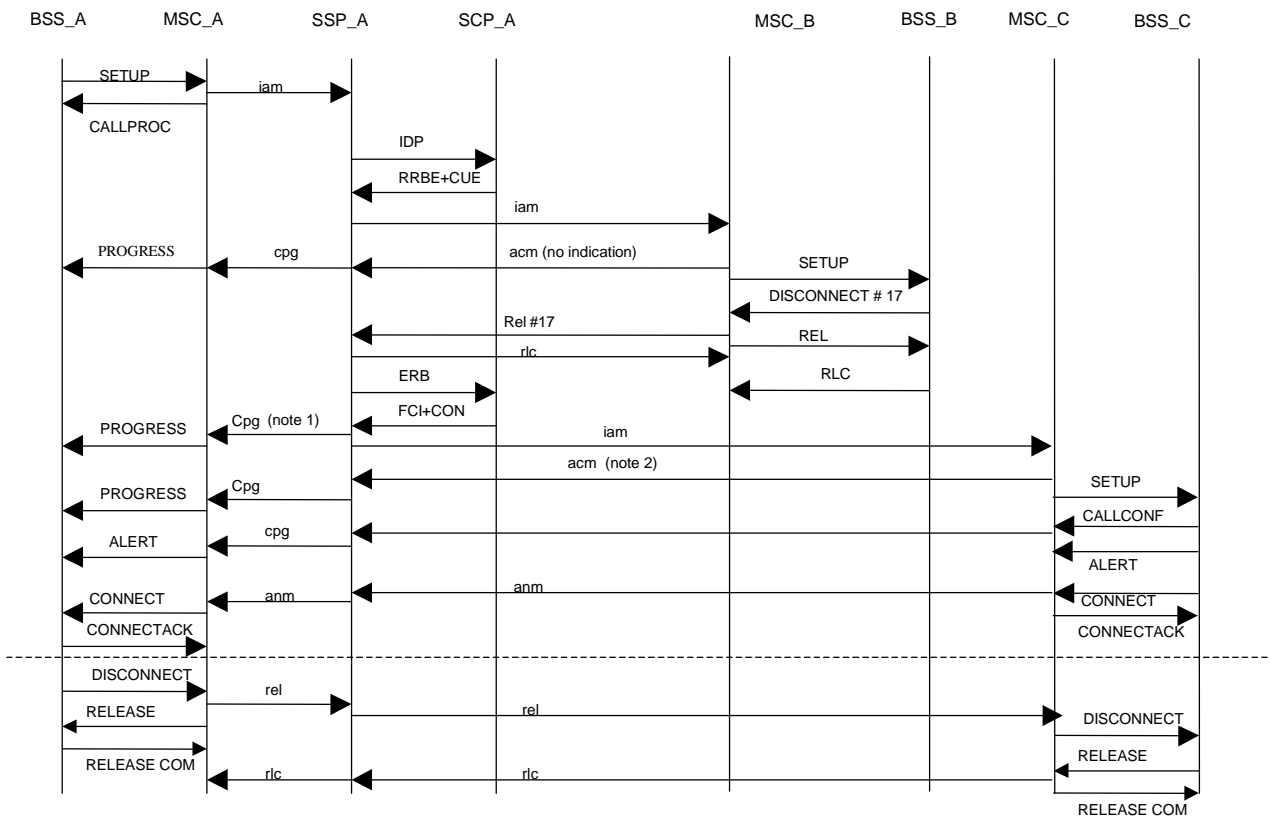


NOTE: The ACM message is optional.

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

GG__xx N_ 06	GSM ref. to: 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	Other ref.: GSM Association PRD IR.32 clause 2.2.5.2
TSS reference:	GSM to GSM/ Number translation services/Successful	
GSM selection criteria origin.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
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. 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 ISUP/CAP Interface parameter Values (note):	Initial Detection point No action Continue Operation No action Release Operation An REL with cause value # 17 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 Verify that the IUT can successfully map the CAP Release Call Message and release the call like an ordinary transit exchange.	
PCO / PO A/CAP 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.	
GSM parameter values origin.:	GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE 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	
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 Event CUE: Continue ERB: Event Report BCSM RC: Release Call FCI: Furnish Charging Info	

GG__SPN_06

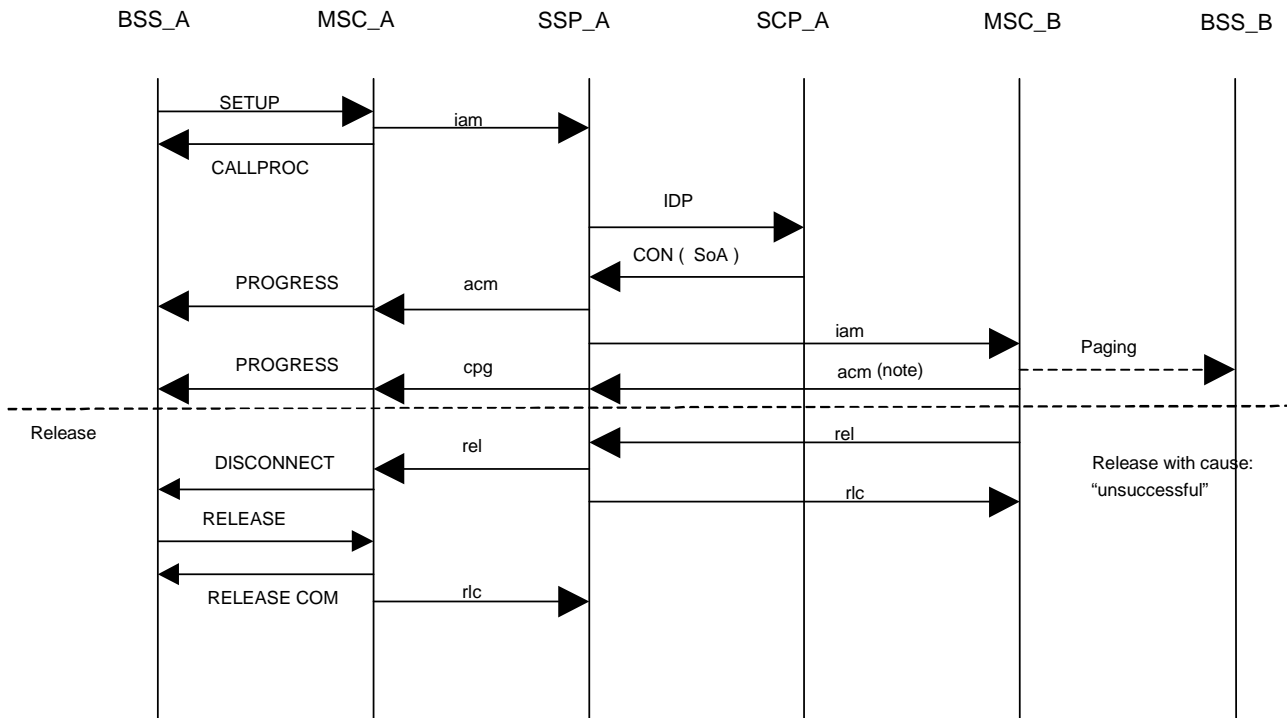


NOTE 1: The CPG message is optional.
 NOTE 2: The ACM message is optional.

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

GG__xx N_ 07	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	Other ref.: GSM Association PRD IR.32 clause 2.1.7
TSS reference:	GSM to GSM/ Number translation services/Successful	
GSM selection criteria origin.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
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 VPLMN 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 No action Connect Operation 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 A/CAP 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.	
GSM parameter values origin.:	GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE 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	
Comments:	This test case confirms operation of the suppression of announcement in case of unsuccessful call establishment detected at the MSC.	

GG__SPN_07

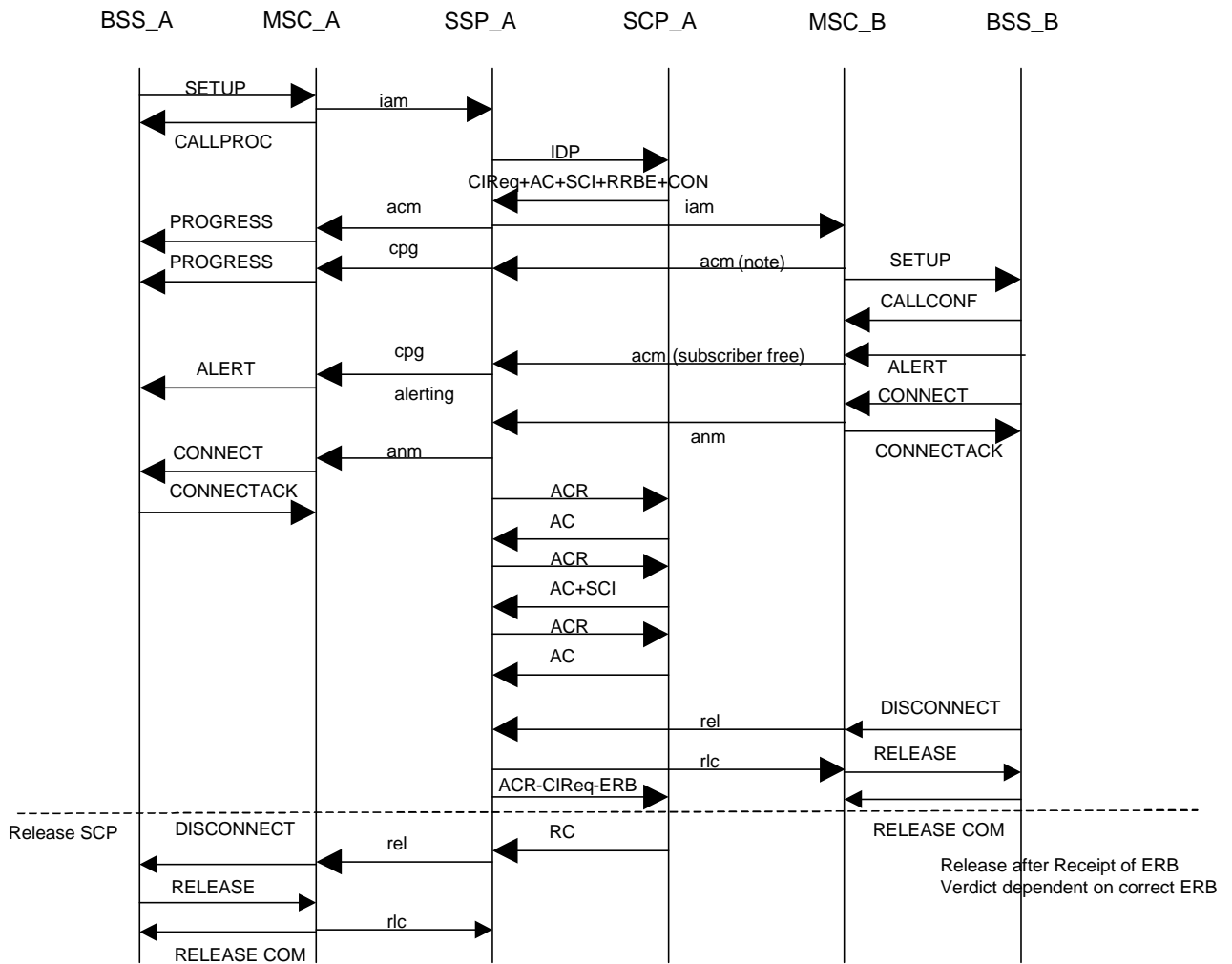


NOTE: The sending of the early ACM message is optional.

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

GG__xx N_ 08	GSM ref. to: 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	Other ref.: GSM Association PRD IR.32 clause 2.2.6.1
TSS reference:	GSM to GSM/Number translation services/Successful	
GSM selection criteria origin.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
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 VPLMN Location update performed for originating A-Subscriber Terminating B-Subscriber routed to ISUP link	
PCO / PO ISUP/CAP Interface parameter Values¹⁾:	Initial Detection point No action Connect Operation No action Sending of backward messages No action	
PCO / PO A/CAP interface parameter Values²⁾:	Initial Detection point No action Sending of backward messages No action Receiving of a Release message No action	
GSM parameter values origin.:	GSM-BC = GSM-BC_ID Synchronous/ asynchronous mode: MODE user rate: USER_RATE 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	
Comments:		
Abbreviations:	CIReq: CallInformationRequest CIRep: CallInformationReport SCI: SendChargingInfo AC: ApplyCharging ACR: ApplyChargingReport RRBE: Request Report BCSM Event ERB: Event Report BCSM RC: Release Call FCI: Furnish Charging Info	

GG__SPN_08

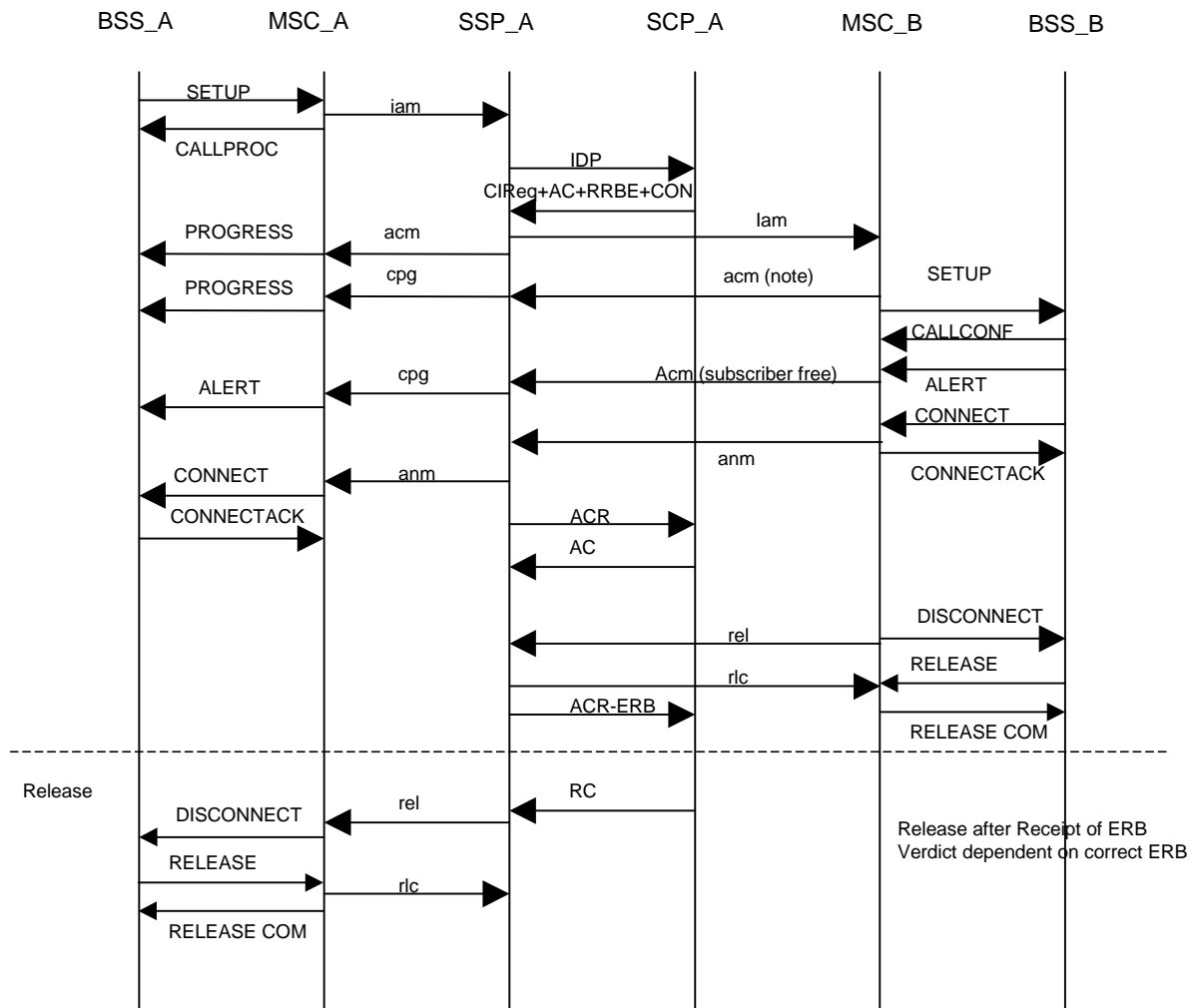


NOTE: The sending of the ACM message is optional.

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: 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	Other ref.: GSM Association PRD IR.32 clause 2.2.6.2
TSS reference:	GSM to GSM/ Number translation services/Successful	
GSM selection criteria origin.:	Numb_Trans, Simulation	
GSM selection criteria term.:	Numb_Trans,	
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 VPLMN 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 No action Connect Operation No action Sending of backward messages No action	
PCO / PO A/CAP interface parameter Values (note):	Initial Detection point No action Sending of backward messages No action Receiving of a Release message No action	
GSM parameter values origin.:	GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE 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	
Comments:		
Abbreviations:	CIReq: CallInformationRequest CIRep: CallInformationReport SCI: SendChargingInfo AC: ApplyCharging ACR: ApplyChargingReport RRBE: Request Report BCSM Event ERB: Event Report BCSM RC: Release Call FCI: Furnish Charging Info	

GG__SPN_09

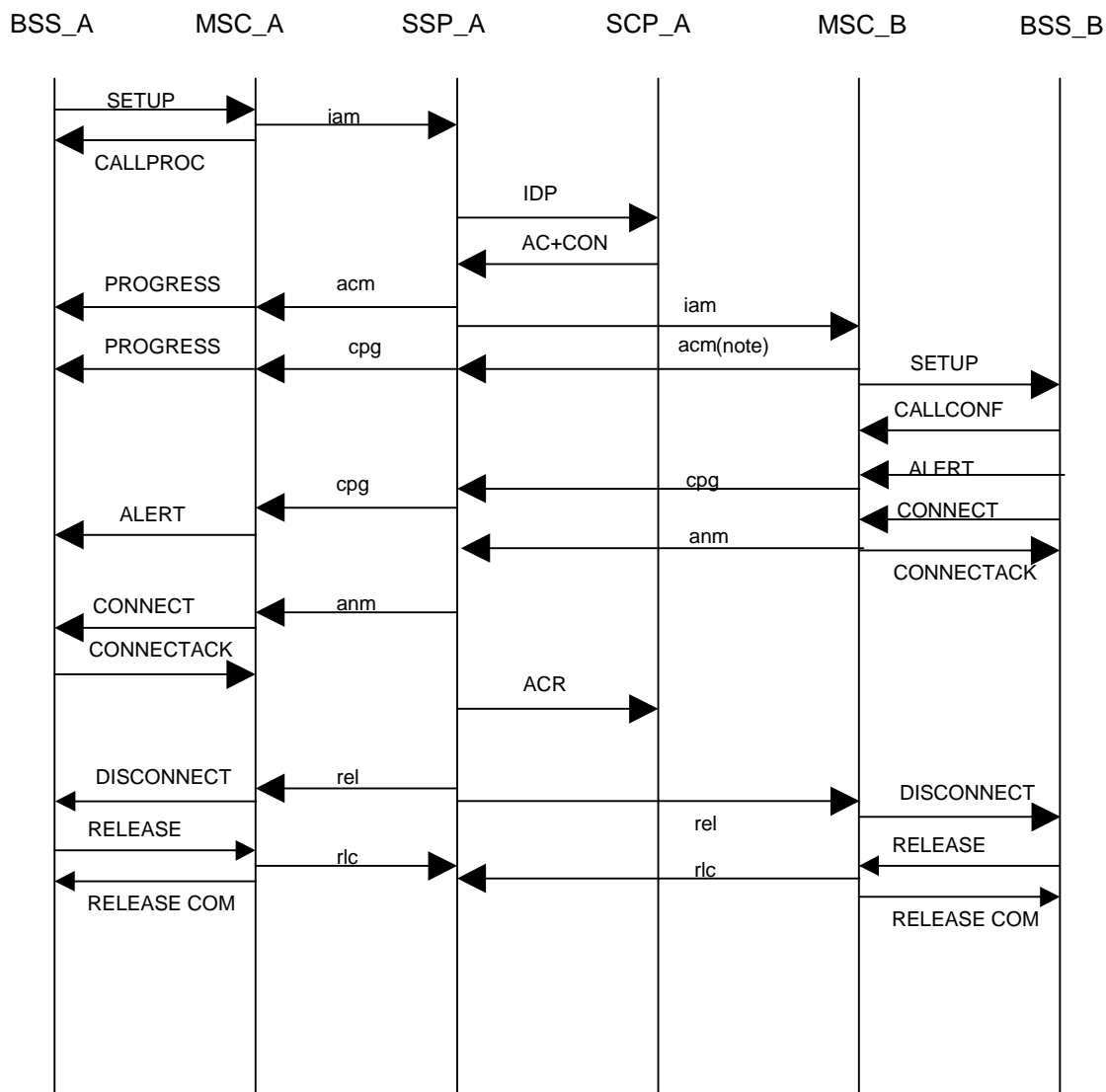


NOTE: The sending of the ACM message is optional.

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

GG__xx N_ 10	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	Other ref.: GSM Association PRD IR.32 clause 2.2.6.3
TSS reference:	GSM to GSM/ Services with user interactive dialogue/Successful	
GSM selection criteria origin.:	Numb_Trans, Simulation	
GSM selection criteria term.:	Numb_Trans,	
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 released. 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 ISUP/CAP Interface parameter Values (note):	Initial Detection point No action Connect Operation No action Sending of backward messages No action	
PCO / PO A/CAP interface parameter Values (note):	Initial Detection point No action Sending of backward messages No action Receiving of a Release message No action	
GSM parameter values origin.:	GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE 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	
Comments:	This test case confirms operation of the suppression of announcement in case of unsuccessful Call establishment detected at the MSC.	

GG__SPN_10



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 ↓ Messages already sent	Call Proceeding	alerting	Connect
Call Proceeding/ CONNECT not sent	Call Proceeding	Alerting	Connect
Call Proceeding sent, Connect not sent	Progress	Alerting	Connect

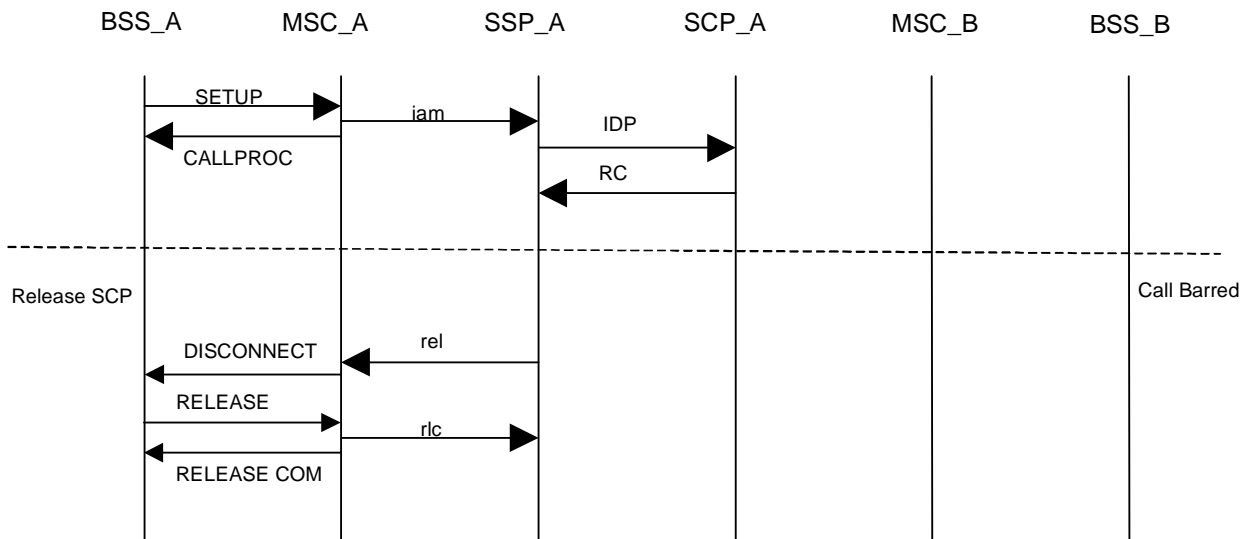
7.1.2.2 Unsuccessful

Unsuccessful

Number translation services

GG__SP NU 01	GSM ref. to: 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	Other ref.:
TSS reference:	GSM to GSM/ Number translation services/Unsuccessful	
GSM selection criteria origin.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
Test purpose:	To verify that the Call is released immediately and that no rerouting activity takes place if the SCP recognizes that a barred number is dialled. Pre test Conditions: A-subscriber provisioned in HLR for Rerouting service Location update performed for originating A-Subscriber Terminating B-Subscriber is barred in the SCP	
PCO / PO ISUP/CAP Interface parameter Values (note):	Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.	
PCO / PO A/CAP interface parameter Values (note):	Receiving of a Release message Verify that the IUT can successfully release the call.	
GSM parameter values origin.:	GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE 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	
Comments:		

GG__SPNU_01



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

Values for test purposes GG__xx 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

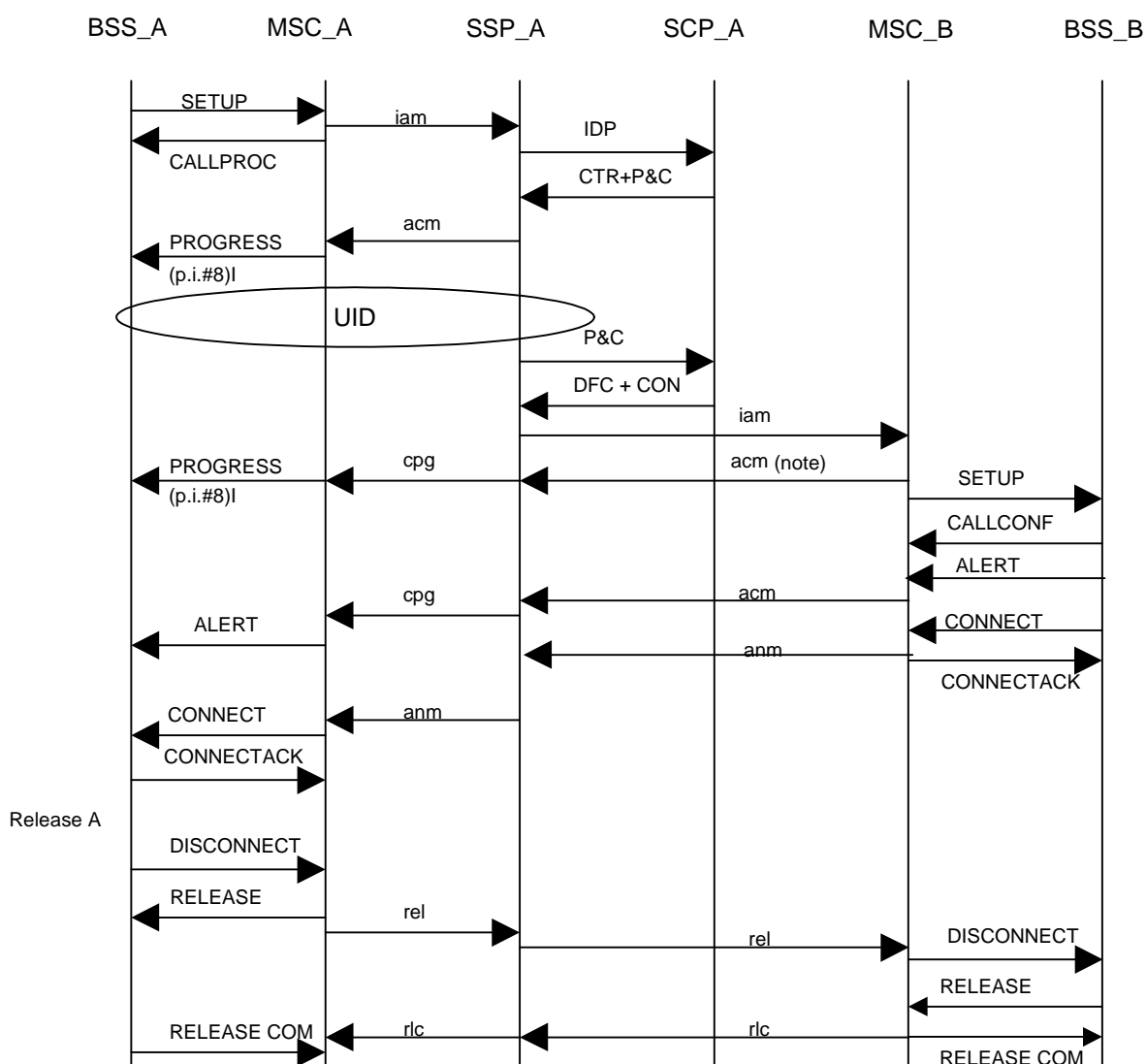
7.1.3 Services with user interactive dialogue

7.1.3.1 Successful

GG__xx 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.:
TSS reference:	GSM to GSM/ Services with user interactive dialogue/Successful	
GSM selection criteria origin.:	Numb_Trans, IN call with user interactive dialogue (in-band) SSP supports requested IP capabilities, OLE supports UID capabilities	
GSM selection criteria term.:	Services with user interactive dialogue	
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 ISUP/CAP Interface parameter Values (note):	<p>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).</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.</p>	
PCO / PO A/CAP interface parameter Values (note):	<p>Initial Detection point Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP parameter InitialDP_PAR_ID (see annex C).</p> <p>Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.</p> <p>Receiving of a Release message Verify that the IUT can successfully release the call.</p>	
GSM parameter values origin.:	GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID	

GG__xx 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 mode: MODE user rate: USER_RATE LLC = synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID	
Comments:		

GG_SPI_01



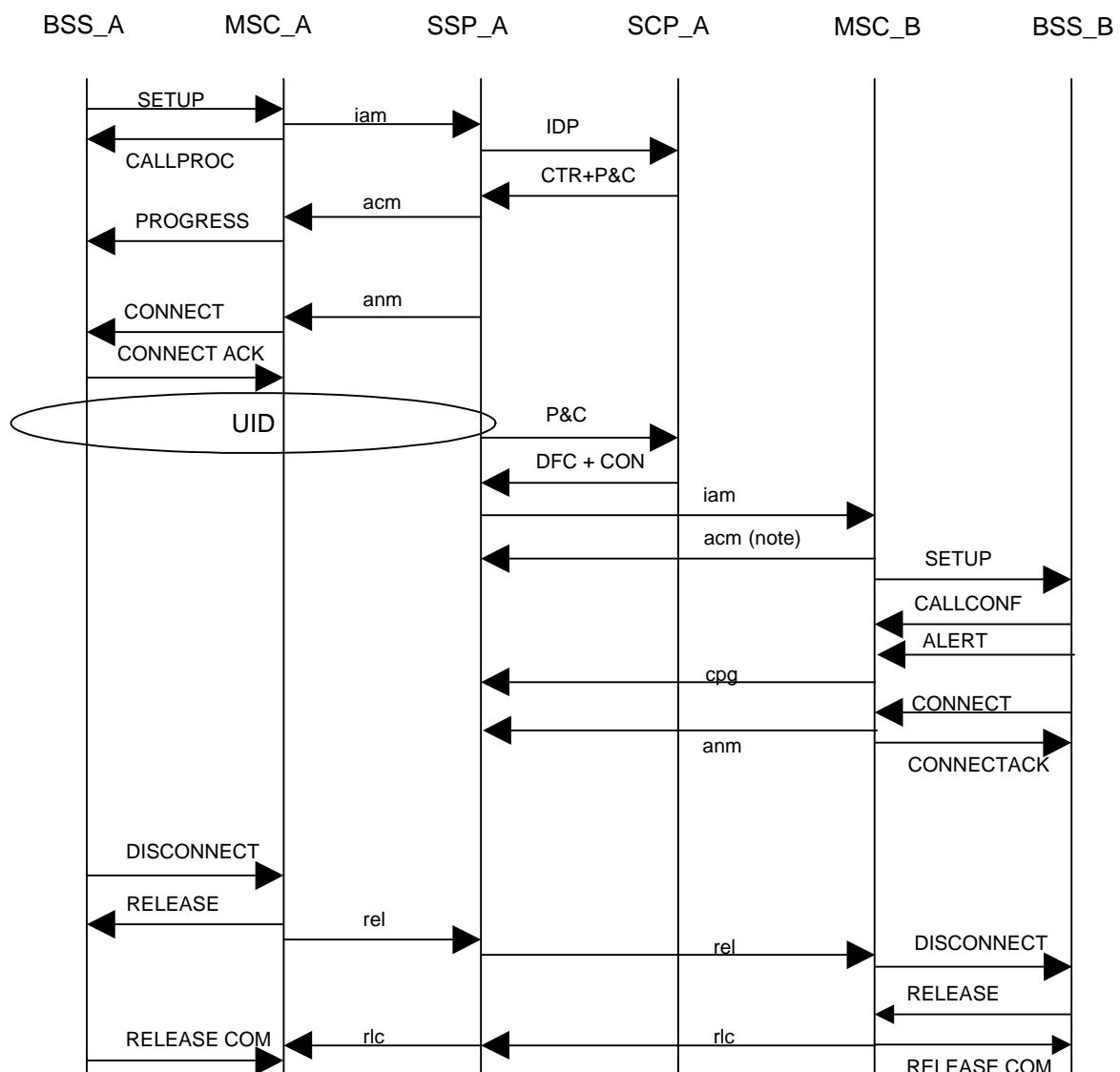
NOTE: The sending of the ACM message is optional.

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

GG__xx 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.:
TSS reference:	GSM to GSM/ Services with user interactive dialogue /Successful	
GSM selection criteria origin.:	Numb_Trans, IN call with user interactive dialogue (in-band) SSP supports requested IP capabilities, OLE does not support UID capabilities	
GSM selection criteria term.:	Services with user interactive dialogue	
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 ISUP/CAP Interface parameter Values (note):	<p>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).</p> <p>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).</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.</p>	
PCO / PO A/CAP interface parameter Values (note):	<p>Initial Detection point Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP parameter InitialDP_PAR_ID (see annex C).</p> <p>Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.</p> <p>Receiving of a Release message Verify that the IUT can successfully release the call.</p>	
GSM parameter values origin.:	<p>GSM-BC = GSM-BC_ID Synchronous/ asynchronous mode: MODE User rate: USER_RATE</p> <p>LLC = BC_ID Synchronous/ asynchronous mode: MODE User rate: USER_RATE</p> <p>HLC = HLC_ID</p>	

GG__xx 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 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	
Comments:		

GG__SPI_02



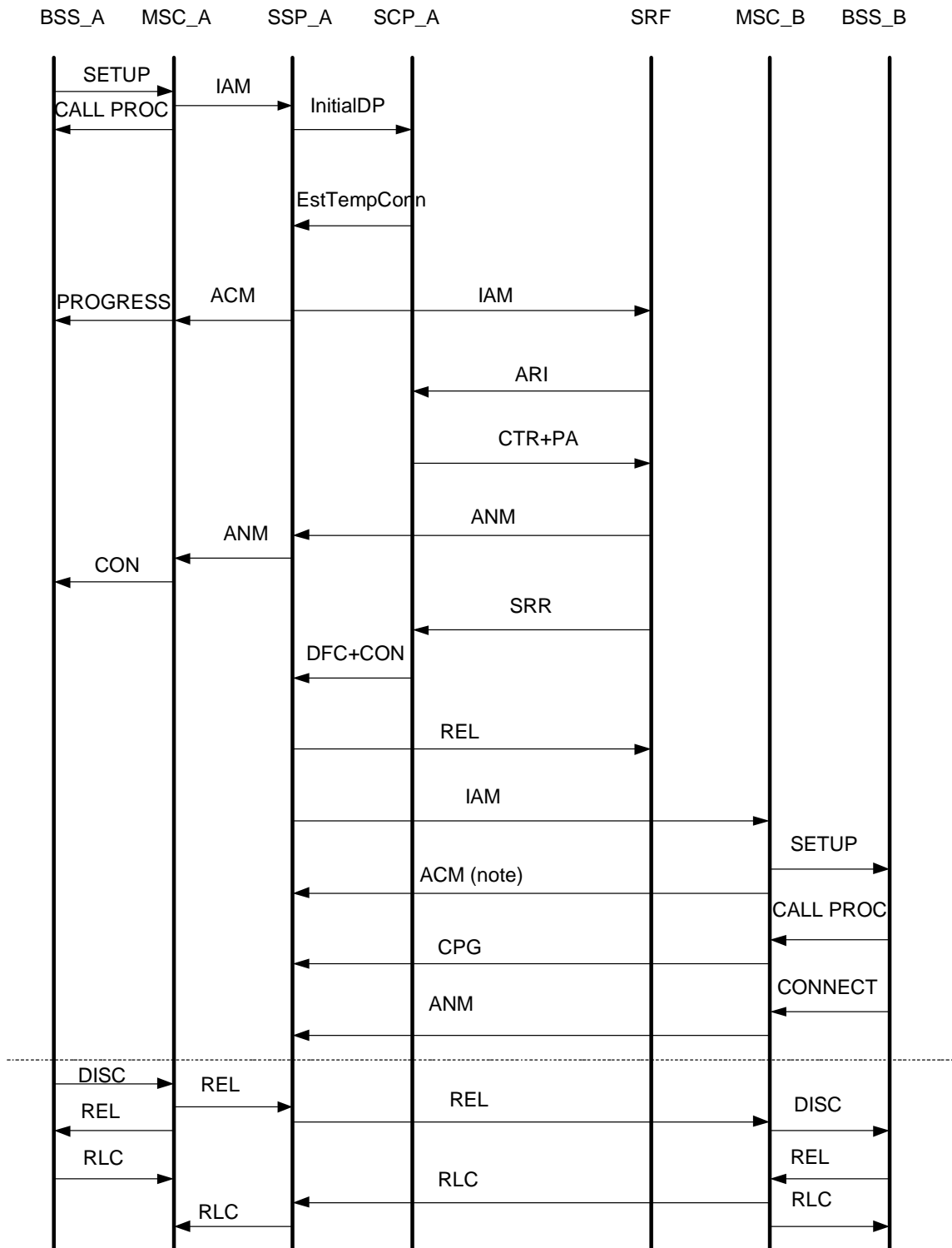
NOTE: The sending of the ACM message is optional.

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

GG__xx I_03	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	Other ref.: GSM Association PRD IR.32 clause 2.2.7
TSS reference:	GSM to GSM/ /Successful/ Services with user interactive dialogue	
GSM selection criteria origin.:	Numb_Trans, IN call with user interactive dialogue (in-band) Assist method; procedure in initiating SSP	
GSM selection 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. 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 ISUP/CAP Interface parameter Values (note):	<p>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).</p> <p>Establish Temporary Connection Verify that the IUT can successfully map the assistingSSIPRRoutingAdress 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</p> <p>Verify that the IUT can successfully map the Disconnect Forward Connection (DFC) message to a RELEASE message on the ISUP.</p> <p>On sending of the IAM an ACM message is sent to the preceding exchange.</p> <p>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.</p> <p>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.</p> <p>Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.</p>	
PCO / PO A/CAP interface parameter Values (note):	<p>Initial Detection point Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP parameter InitialDP_PAR_ID (see annex C).</p> <p>Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.</p> <p>Receiving of a Release message Verify that the IUT can successfully release the call.</p>	
GSM parameter values origin.:	GSM-BC = GSM-BC_ID Synchronous/ asynchronous mode: MODE User rate: USER_RATE 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	
Comments:		

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).



int.ref:IN4

NOTE: The sending of the early ACM is optional.

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

GG__xx I_04	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	Other ref.:
TSS reference:	GSM to GSM/ Services with user interactive dialogue /Successful	
GSM selection criteria origin.:	Numb_Trans, IN call with user interactive dialogue (in-band) Assist method; procedure in assisting SSP	
GSM selection 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 AssistReqInstructions 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 ISUP/CAP Interface parameter Values (note):	<p>AssistRequestInstructions operation If an IAM is received at an assisting SSP containing a gsmSSF or an IP containing a gsmSRF then an AssistRequestInstructions operation is sent to the gsmSCF. The correlationID parameter in the AssistRequestInstructions operation can contain:</p> <ol style="list-style-type: none"> the CorrelationID digits extracted from the IAM Called Party Number; the whole Called Party Number received in the ISUP IAM (CorrelationID digits extracted at gsmSCF); the contents of the ISUP IAM CorrelationID parameter. <p>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.</p> <p>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.</p> <p>ConnectToResource operation Verify that the IUT can successfully connect the IP to the incoming call to facilitate User Interactive dialogue with the user.</p> <p>If the User Interactive dialogue is to be performed at a forwarding MSC or GMSC then 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 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.</p>	
PCO / PO A/CAP interface parameter Values (note):	<p>Initial Detection point Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP parameter InitialIDP_PAR_ID (see annex C).</p> <p>Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.</p> <p>Receiving of a Release message Verify that the IUT can successfully release the call.</p>	

GG__xx I_04	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	Other ref.:
GSM parameter values origin.:	GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE 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	
Comments:		

GG__SPI_04

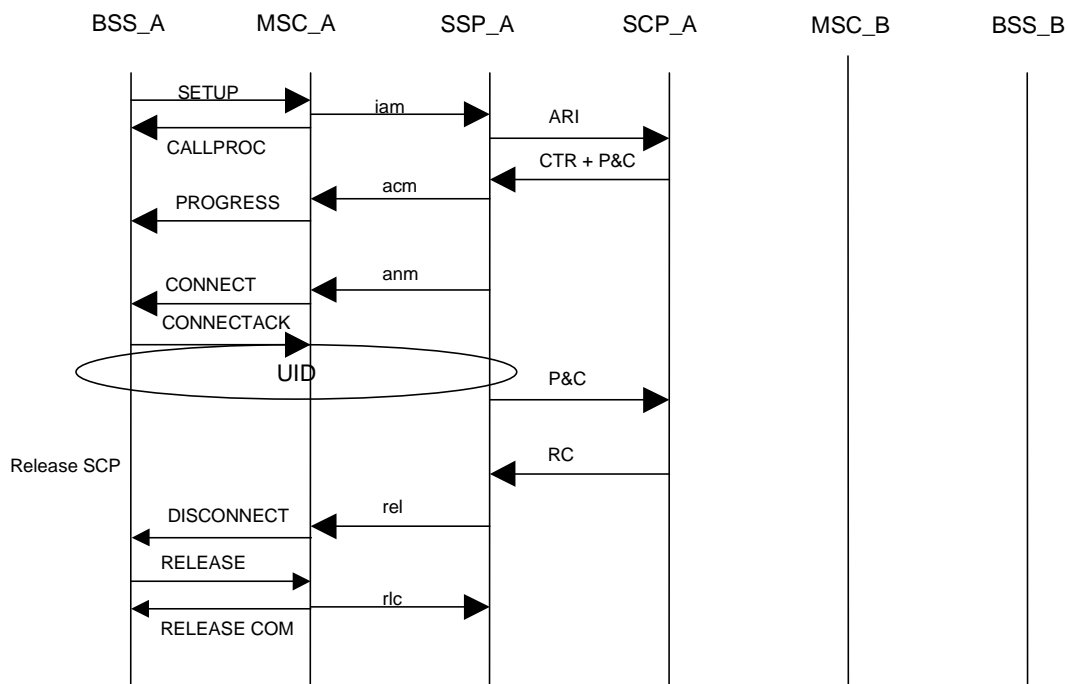


Figure 19: User interactive dialogue service, IN call with user interactive dialogue (in-band) Assist method; procedure in initiating SSP; an AssistReqInstructions operation is sent from the SSF to the SCF

Values for test purposes GG_xx I_01 to GG_xx 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" (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.

7.1.3.2 Unsuccessful

Unsuccessful

Services with user interactive dialogue

GG__xx IU 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	Other ref.:
TSS reference:	GSM to GSM/ Services with user interactive dialogue/Unsuccessful	
GSM selection criteria origin.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
Test purpose:	Verify that on receipt of the ConnectToResource operation the 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.	
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 InitialDP_PAR_ID (see annex C). Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.	
PCO / PO A/CAP interface parameter Values (note):	Initial Detection point Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP parameter InitialDP_PAR_ID (see annex C). Receiving of a Release message Verify that the IUT can successfully release the call.	
GSM parameter values origin.:	GSM-BC = UDI Synchronous/ asynchronous mode: PIXIT User rate: PIXIT LLC = PIXIT Synchronous/ asynchronous mode: PIXIT User rate: PIXIT HLC = PIXIT	
GSM parameter values term.:		
Comments:		

GG__SP IU_01

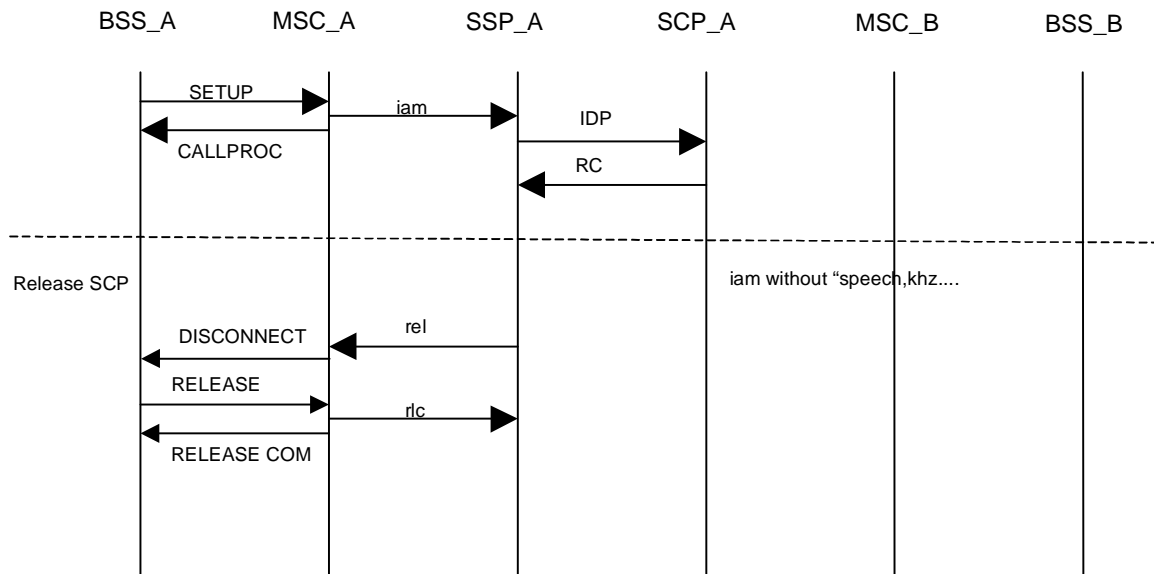
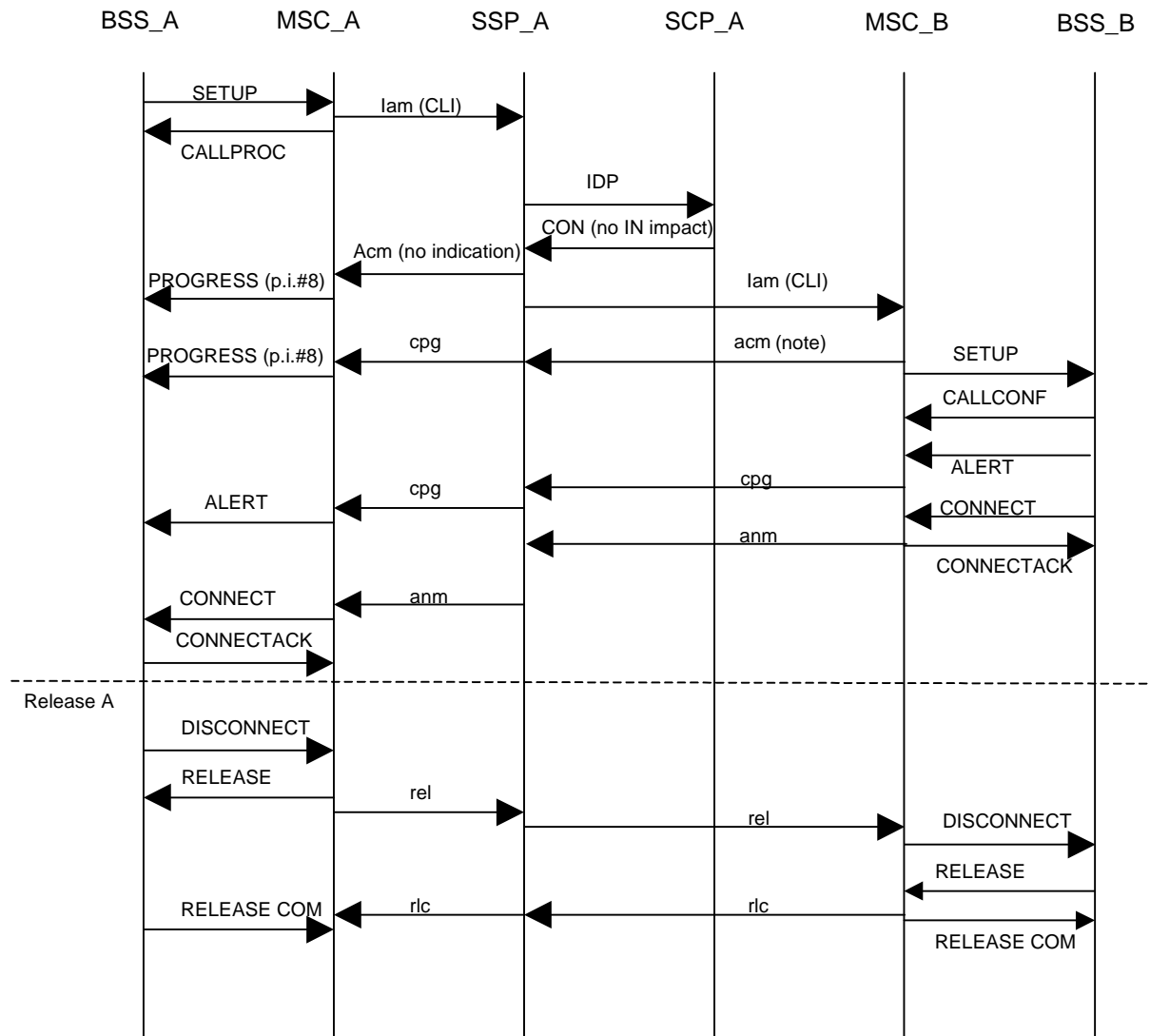


Figure 20: Unsuccessful user interactive dialogue service, call is released using the cause value #65 if other TMR values received in the IAM message than "speech" or "3,1 kHz audio" or "64 kbit/s unrestricted preferred" are received

7.1.4 Supplementary Services

GG____xx NS CLIP 01	GSM ref. to: 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 129 078, clause A.3	Other ref.: TS 129 078 clause A.3
TSS reference:	GSM to GSM/Number translation services/Supplementary Services/CLIP	
GSM selection criteria orign.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
Test 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 "presentation allowed" parameter. The Calling party number provided by the OLE is correctly delivered to the called (served) user.	
PCO / PO ISUP/CAP Interface parameter Values (note):	Initial Detection point No action Connect Operation / Continue operation Verify that the IUT can successfully map calling party restriction indicator 'no IN impact' received in the CAP 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 A/CAP 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.	
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	
Comments:		

GG__SPNS_CLIP_01

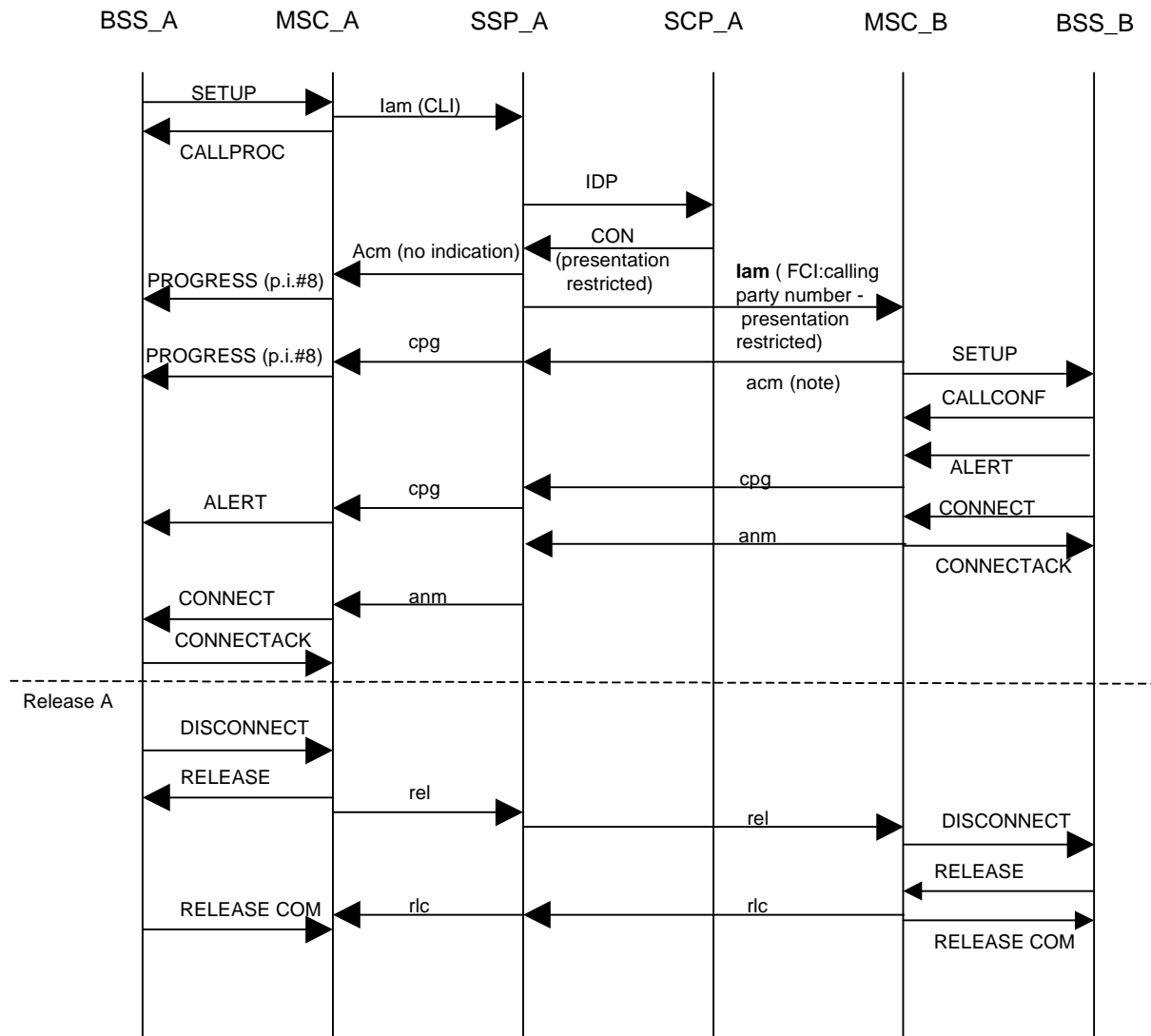


NOTE: The sending of a early ACM is optional.

Figure 21: Number translation services; Supplementary Services; CLIP

GG____xx NS CLIR 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	Other ref.: TS 129 078 clause A.3
TSS reference:	GSM to GSM/ Number translation services/Supplementary Services/CLIR	
GSM selection criteria orign.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
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 if the IUT can successfully map calling party restriction indicator "presentation restricted" received in the CAP serviceInteractionIndicatorsTwo , to the calling party number address presentation restricted indicator 'presentation restricted' parameter.	
PCO / PO ISUP/CAP 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 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 A/CAP 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.	
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	
Comments:		

GG__SPNS_CLIR_01

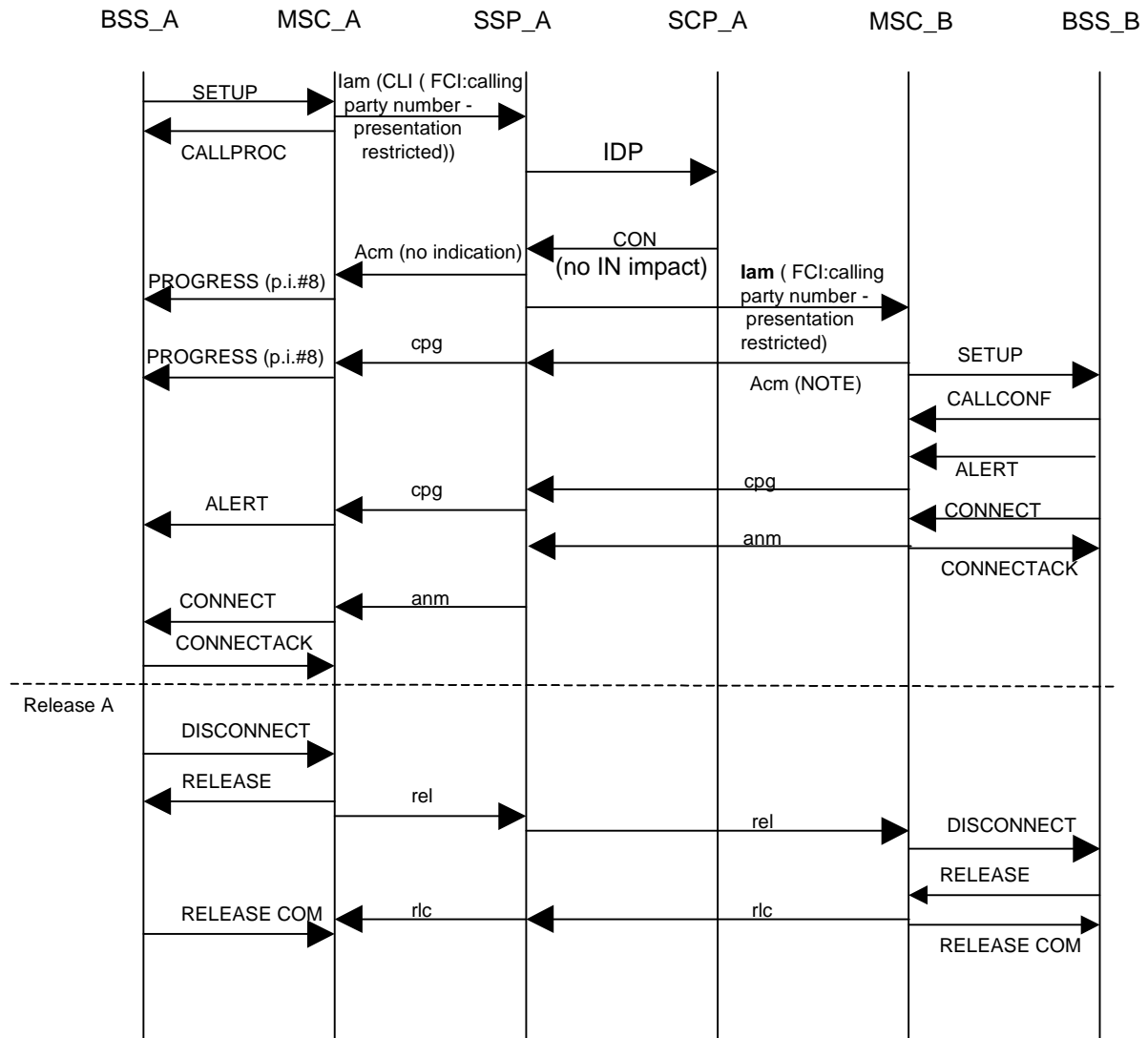


NOTE: The sending of a early ACM is optional.

Figure 22: Number translation services; Supplementary Services; CLIR

GG____xx NS CLIR 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	Other ref.:
TSS reference:	GSM to GSM/ Number translation services/Supplementary Services/CLIR	
GSM selection criteria orign.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
Test purpose:	Ensure that when Calling party number is provided by OLE with calling party restriction indicator " <i>presentation restricted</i> ", 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 address presentation restricted indicator "presentation allowed" parameter.	
PCO / PO ISUP/CAP 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 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 A/CAP 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.	
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	
Comments:		

GG__SPNS_CLIR_02



NOTE: The sending of a early ACM is optional.

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: 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	Other ref.: TS 129 078 clause A.3
TSS reference:	GSM to GSM/ Number translation services/Supplementary Services/COLP	
GSM selection criteria origin.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
Test purpose:	Verify that if ' no IN impact ' was received in the CAP serviceInteractionIndicatorsTwo (connected number treatment indicator), then the connected number parameter is passed on unchanged. Verify that the Connected number information element is provided and correctly delivered to the calling (served) user.	
PCO / PO ISUP/CAP Interface parameter Values (note):	Initial Detection point No action Connect Operation / Continue operation If ' no IN impact ' was received in the CAP 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 A/CAP 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.	
GSM parameter values origin.:	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	
Comments:		

GG__SPNS_COLP_01

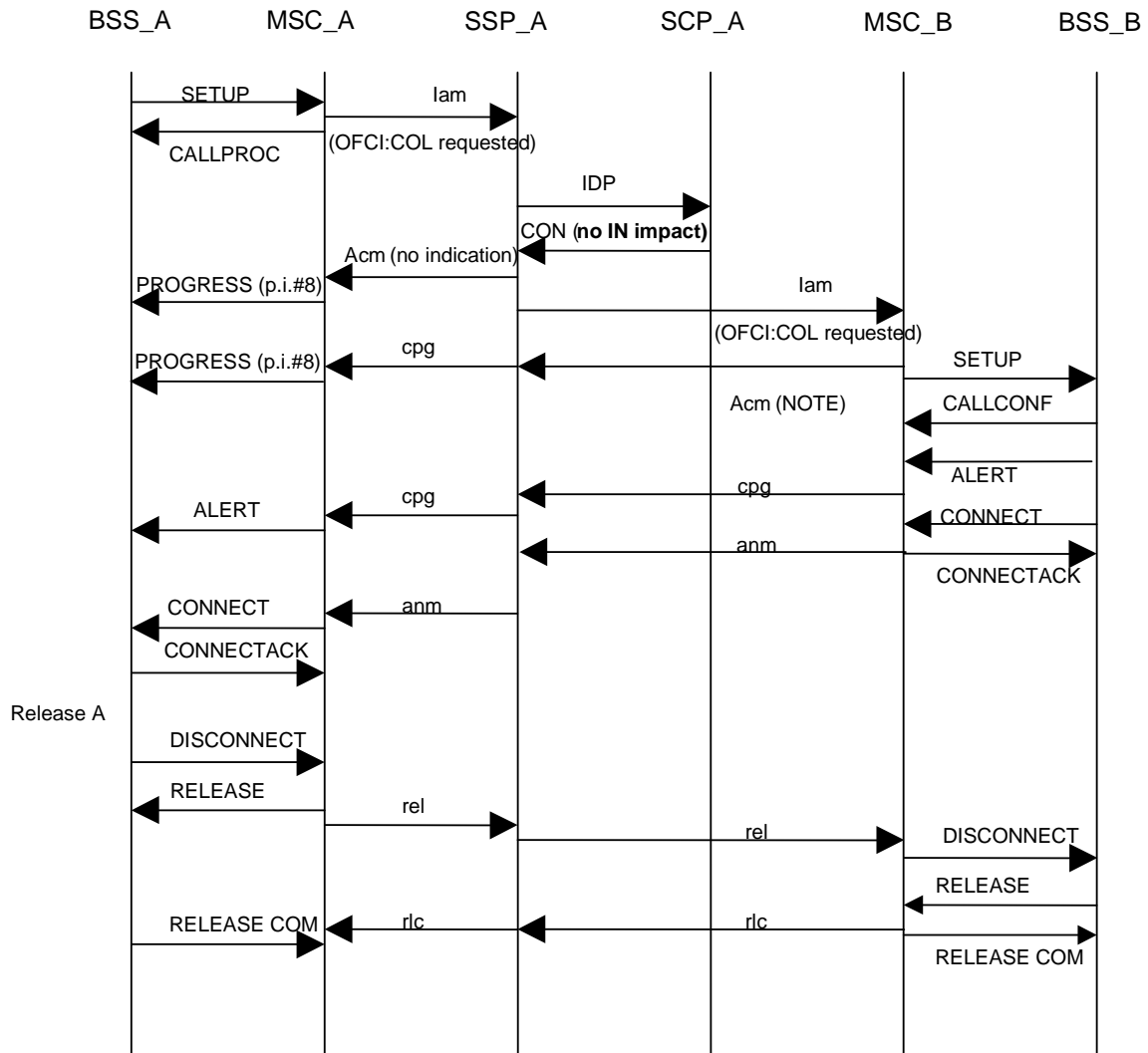
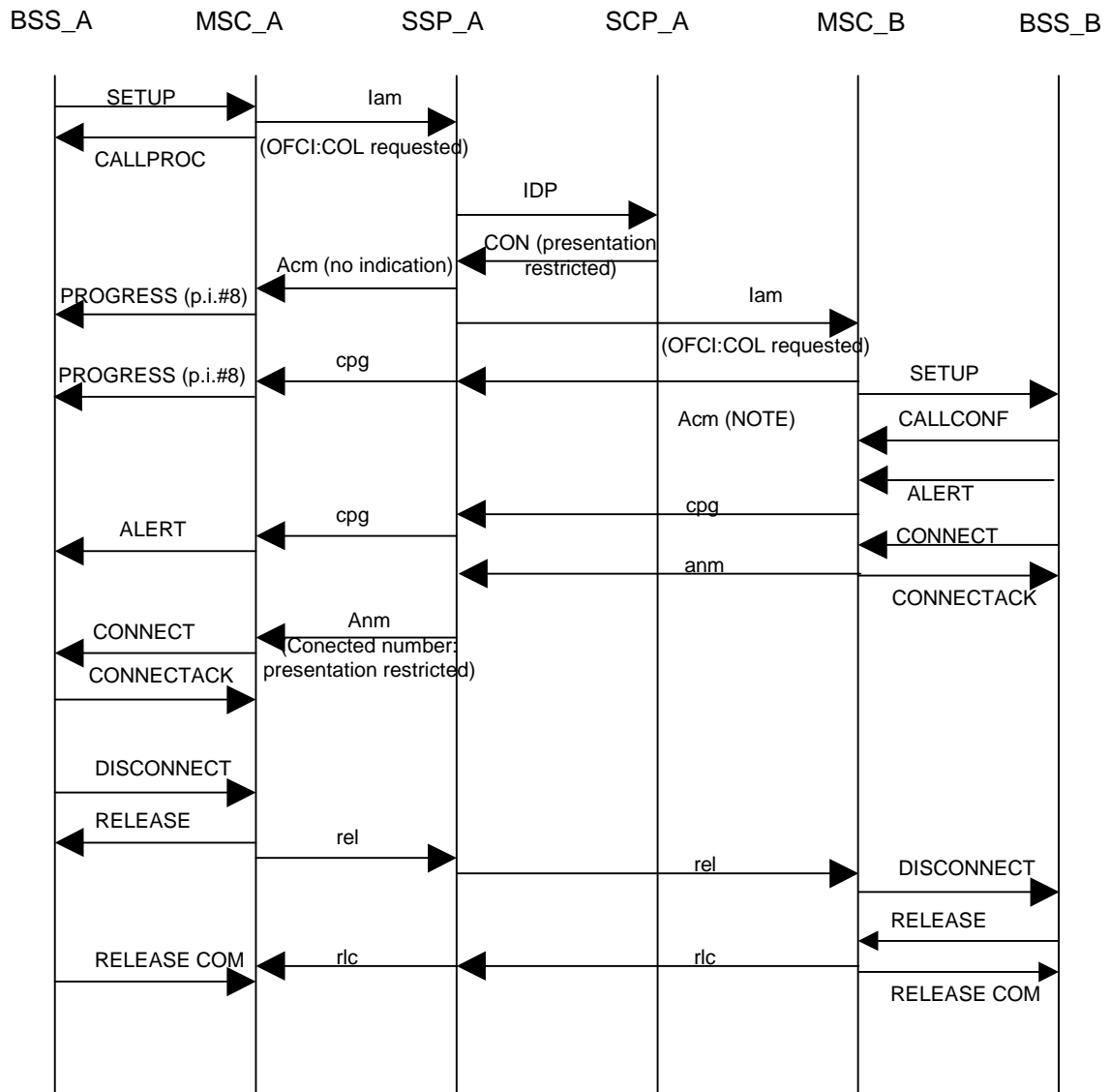


Figure 24: Number translation services; Supplementary Service COLP with "no IN impact" parameter received in the CAP serviceInteractionIndicatorsTwo

GG ____xx NS COLP 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	Other ref.: TS 129 078 clause A.3
TSS reference:	GSM to GSM/ Number translation services/ Supplementary Services/COLP	
GSM selection criteria orign.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
Test purpose:	Verify that if ' presentation restricted ' was received in the CAP 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'. Verify that the Connected number information element is network provided and delivered to the calling (served) user without any digit information.	
PCO / PO ISUP/CAP Interface parameter Values (note):	Initial Detection point No action Connect Operation / Continue operation Verify that if 'presentation restricted' was received in the CAP 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 Verify that the IUT can successfully release the call like an ordinary transit exchange.	
PCO / PO A/CAP 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.	
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	
Comments:		

GG__SPNS_COLP_02

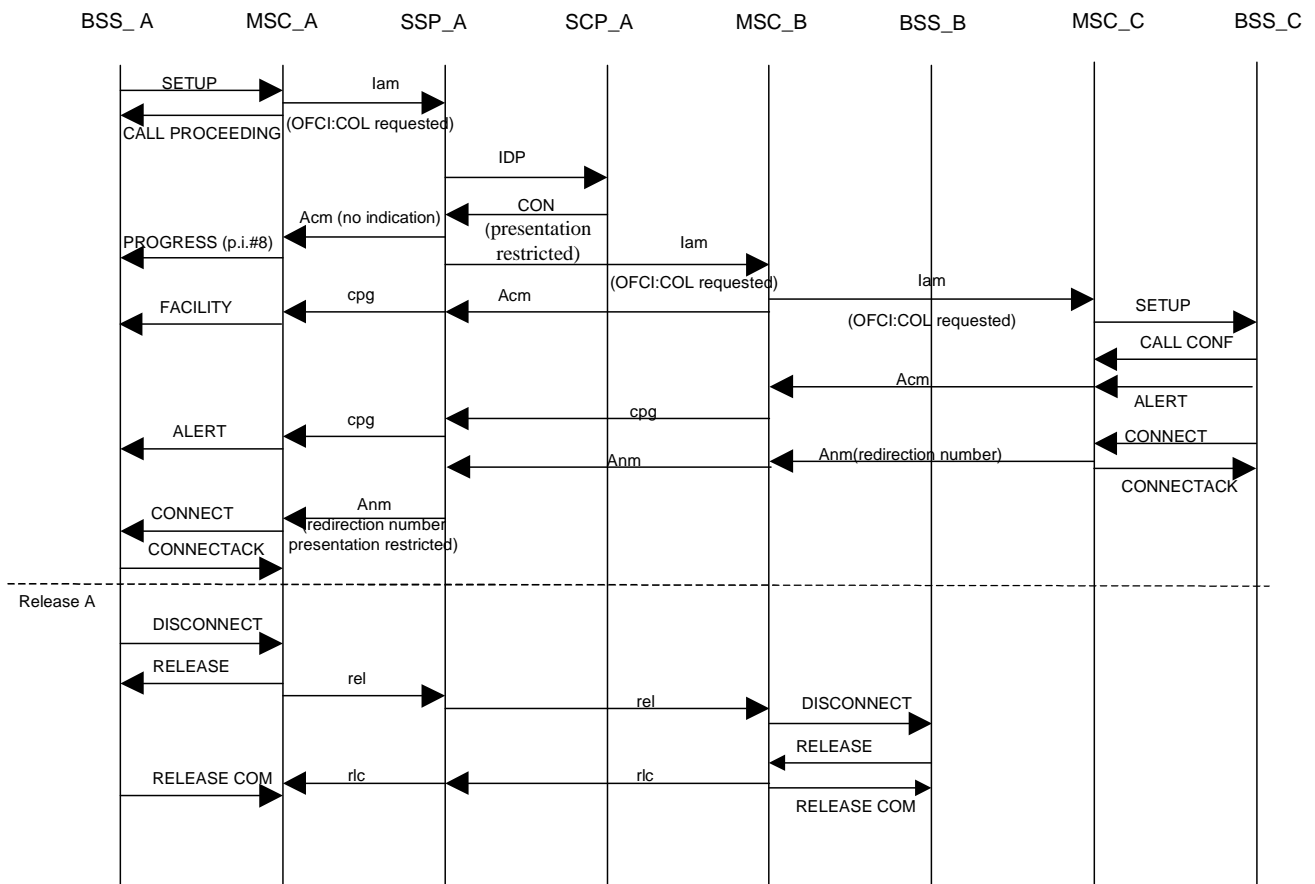


NOTE: The sending of a early ACM is optional.

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: 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	Other ref.: TS 129 078 clause A.3
TSS reference:	GSM to GSM/ Number translation services/Supplementary Services/COLP	
GSM selection criteria orign.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
Test purpose:	Verify that if 'presentation restricted' was received in the CAP 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 ISUP/CAP Interface parameter Values (note):	Initial Detection point No action Connect Operation / Continue operation Verify that if 'presentation restricted' was received in the CAP 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 A/CAP 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.	
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	
Comments:		

GG__SPNS_COLP_03

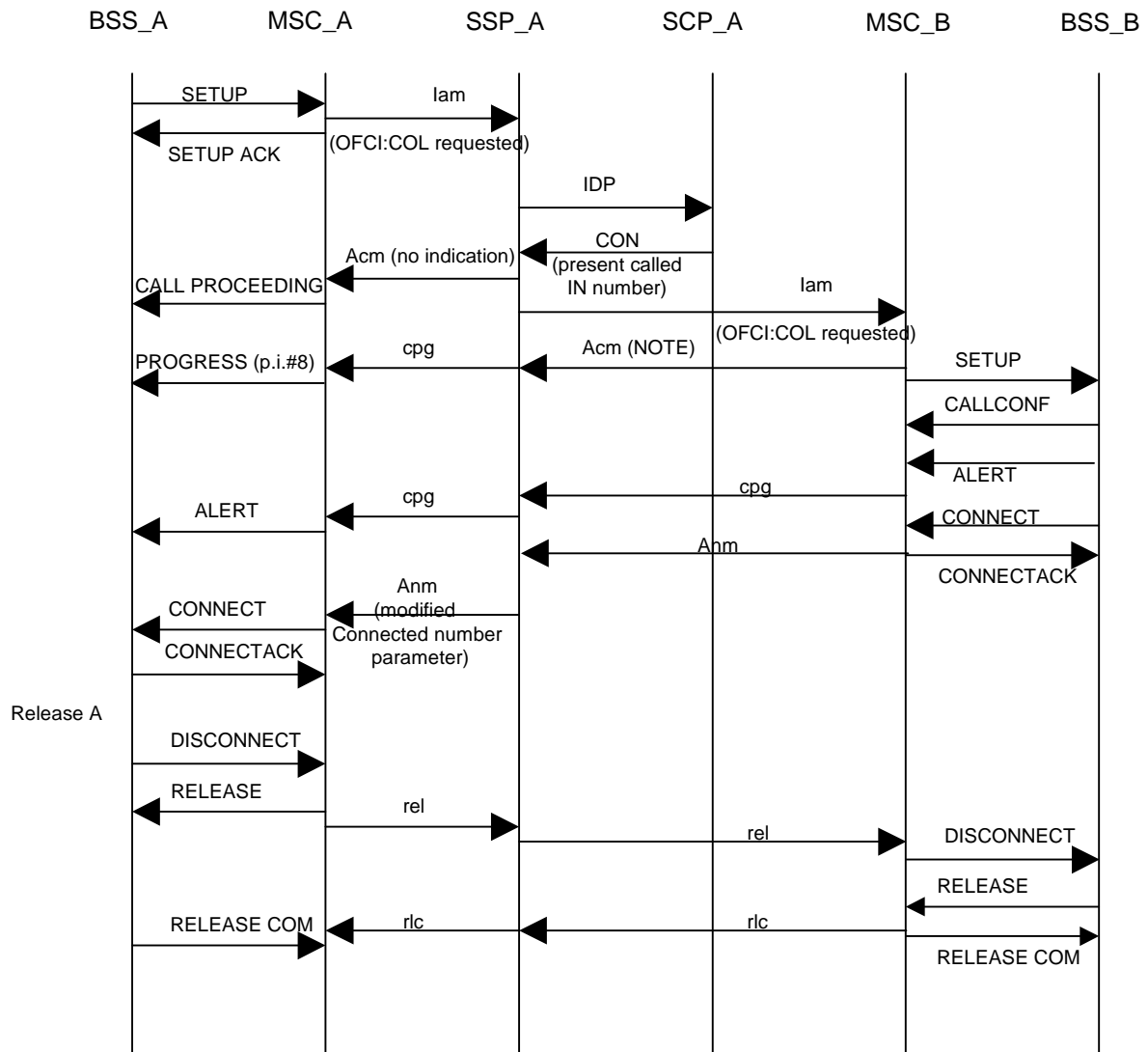


NOTE: The sending of a early ACM is optional.

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

GG ____xx NS COLP 04	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	Other ref.: TS 129 078 clause A.3
TSS reference:	GSM to GSM/ Number translation services/Supplementary Services/COLP	
GSM selection criteria orign.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
Test purpose:	If ' present called IN number ' was received in the CAP 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 ISUP/CAP Interface parameter Values (note):	Initial Detection point No action Connect Operation / Continue operation If 'present called IN number' was received in the CAP 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 A/CAP 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.	
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	
Comments:		

GG__SPNS_COLP_04

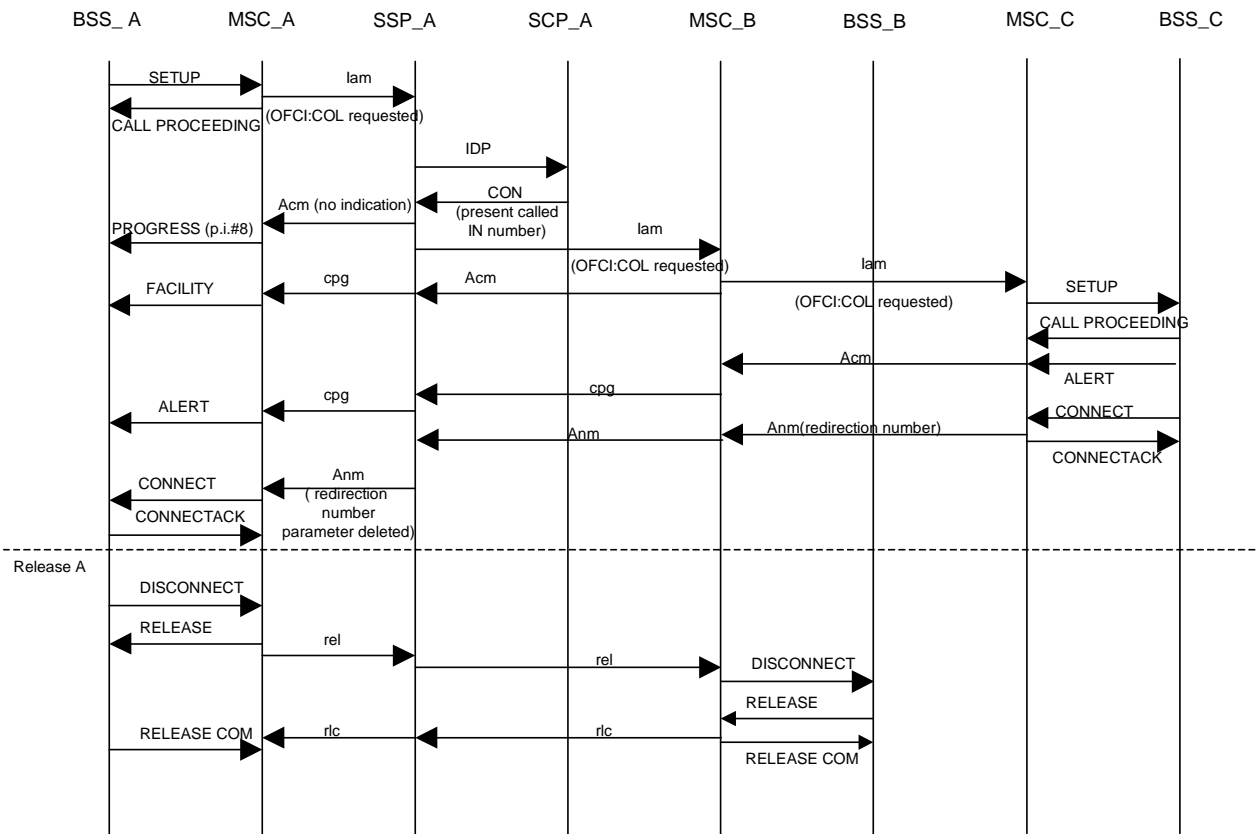


NOTE: The sending of a early ACM is optional.

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: 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	Other ref.: TS 129 078 clause A.3
TSS reference:	GSM to GSM/ Number translation services/Supplementary Services/	
GSM selection criteria orign.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
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 ISUP/CAP Interface parameter Values (note):	Initial Detection point No action Connect Operation / Continue operation If 'present called IN number' was received in the CAP 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 Verify that the IUT can successfully release the call like an ordinary transit exchange.	
PCO / PO A/CAP 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.	
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	
Comments:		

GG__SPNS_COLP_05

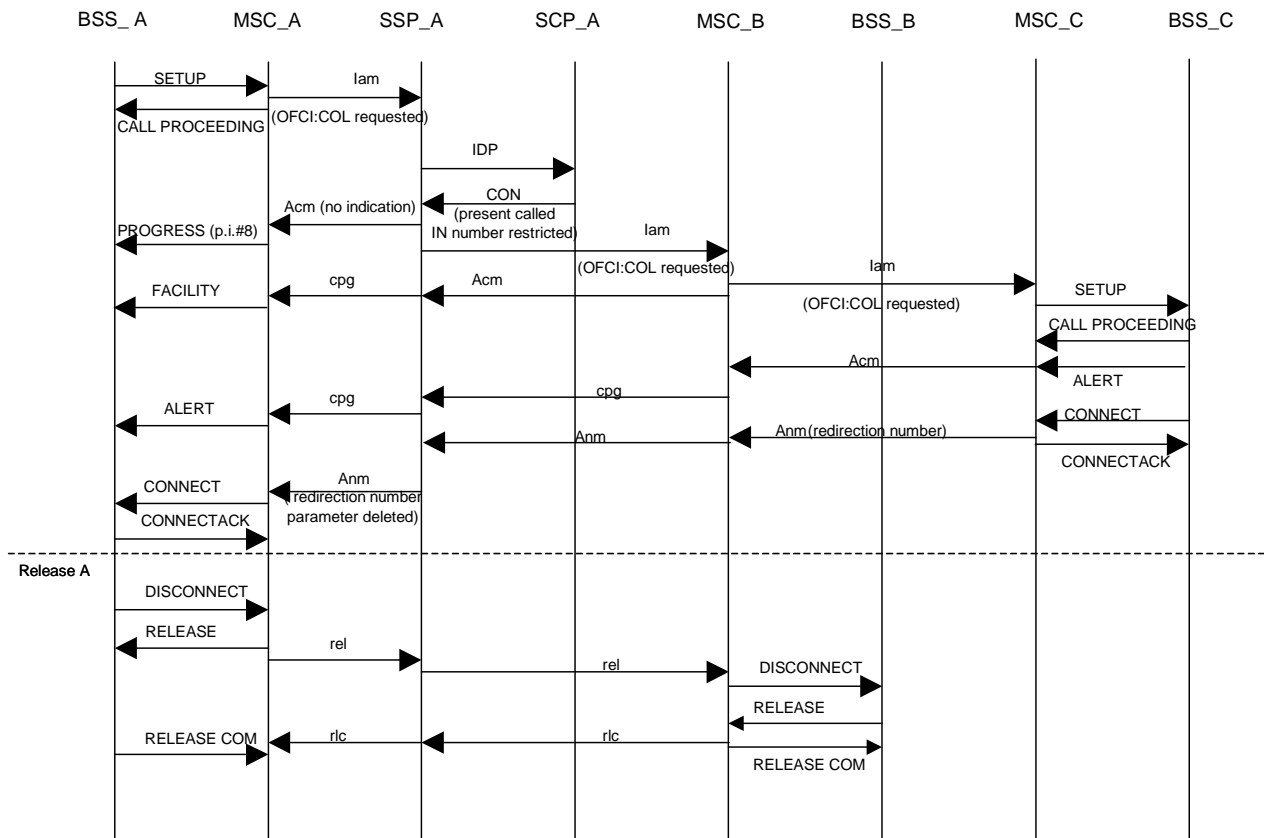


NOTE: The sending of a early ACM is optional.

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

GG ____xx NS COLP 06	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	Other ref.: TS 129 078 clause A.3
TSS reference:	GSM to GSM/ Number translation services/Supplementary Services/COLP	
GSM selection criteria orign.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
Test purpose:	If 'present called IN number restricted' was received in the CAP serviceInteractionIndicatorsTwo, then a redirection number parameter is deleted from the relevant messages, if applicable.	
PCO / PO ISUP/CAP Interface parameter Values (note):	<p>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).</p> <p>Connect Operation / Continue operation If 'present called IN number restricted' was received in the CAP serviceInteractionIndicatorsTwo, then a redirection number parameter is deleted from the relevant messages, if applicable.</p> <p>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.</p> <p>Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.</p>	
PCO / PO A/CAP interface parameter Values (note):	<p>Initial Detection Point No action</p> <p>Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.</p> <p>Receiving of a Release message Verify that the IUT can successfully release the call.</p>	
GSM parameter values orign.:	<p>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).</p> <p>LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE</p> <p>HLC = HLC_ID</p>	
GSM parameter values term.:	<p>GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE</p> <p>LLC = synchronous/ asynchronous mode: MODE user rate: USER_RATE</p> <p>HLC = HLC_ID</p>	
Comments:		

GG__SPNS_COLP_06



NOTE: The sending of a early ACM is optional.

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

GG____xx NS CFxx01xx	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	Other ref.: TS 129 078 clause A.3
TSS reference:	GSM to GSM/Number translation services/Supplementary Services/CFxx	
GSM selection criteria origin.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
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 ISUP/CAP Interface parameter Values (note):	Initial Detection point No action 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. If Connect Operation applies an ACM message is sent to the preceding exchange. Verify that the CAP serviceInteractionIndicatorsTwo parameter indicated as default value is mapped to the value "no indication" in the appropriate parameter in the IAM message. [Q.1601]. 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 A/CAP 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.	
GSM parameter values origin.:	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	
Comments:		

GGG_SPNS_CFxx_01_CFU_CON

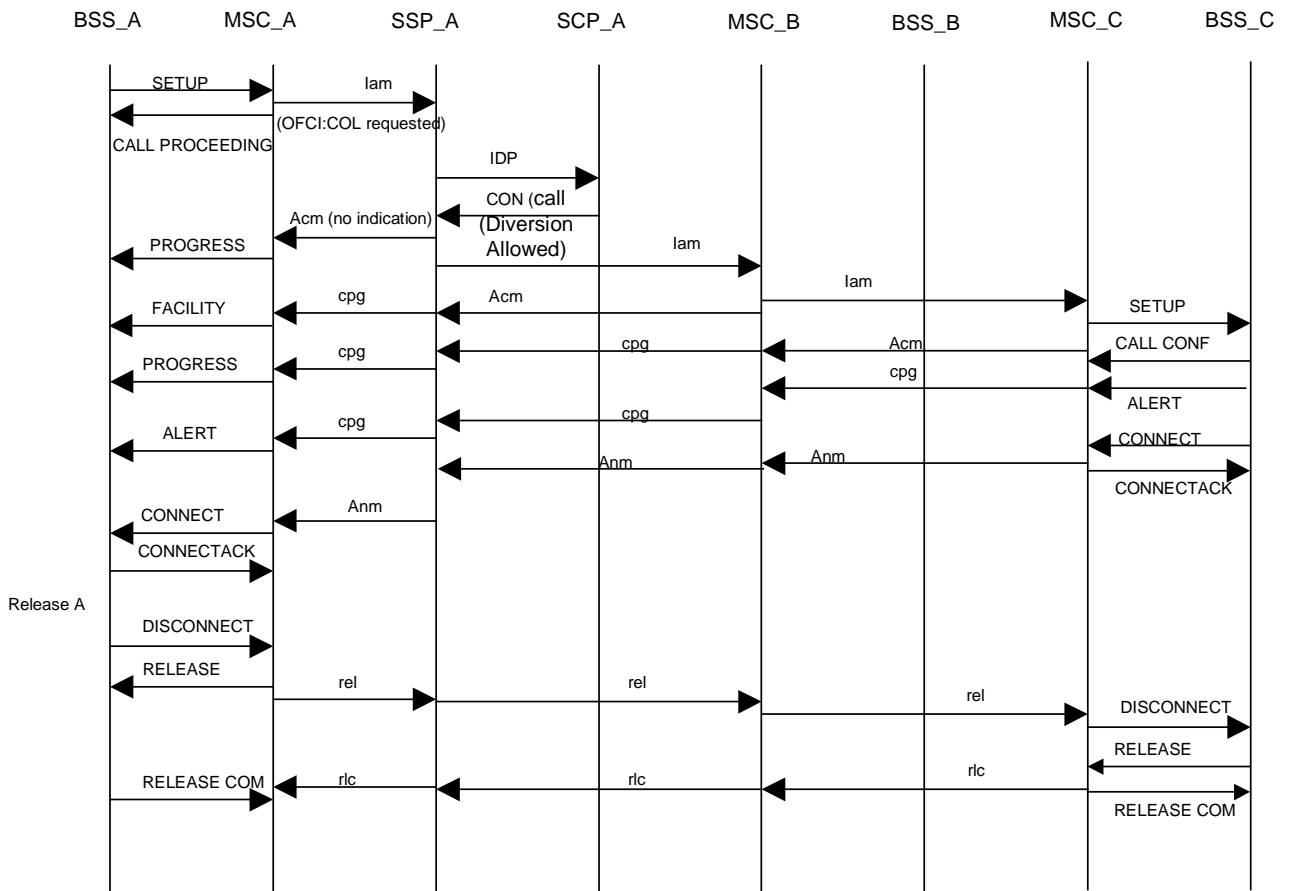


Figure 30: Number translation services; Supplementary Service CFU with the "callDiversionAllowed" parameter received in CON Message

GGG_SPNS_Cfxx_01_CFU_CWA

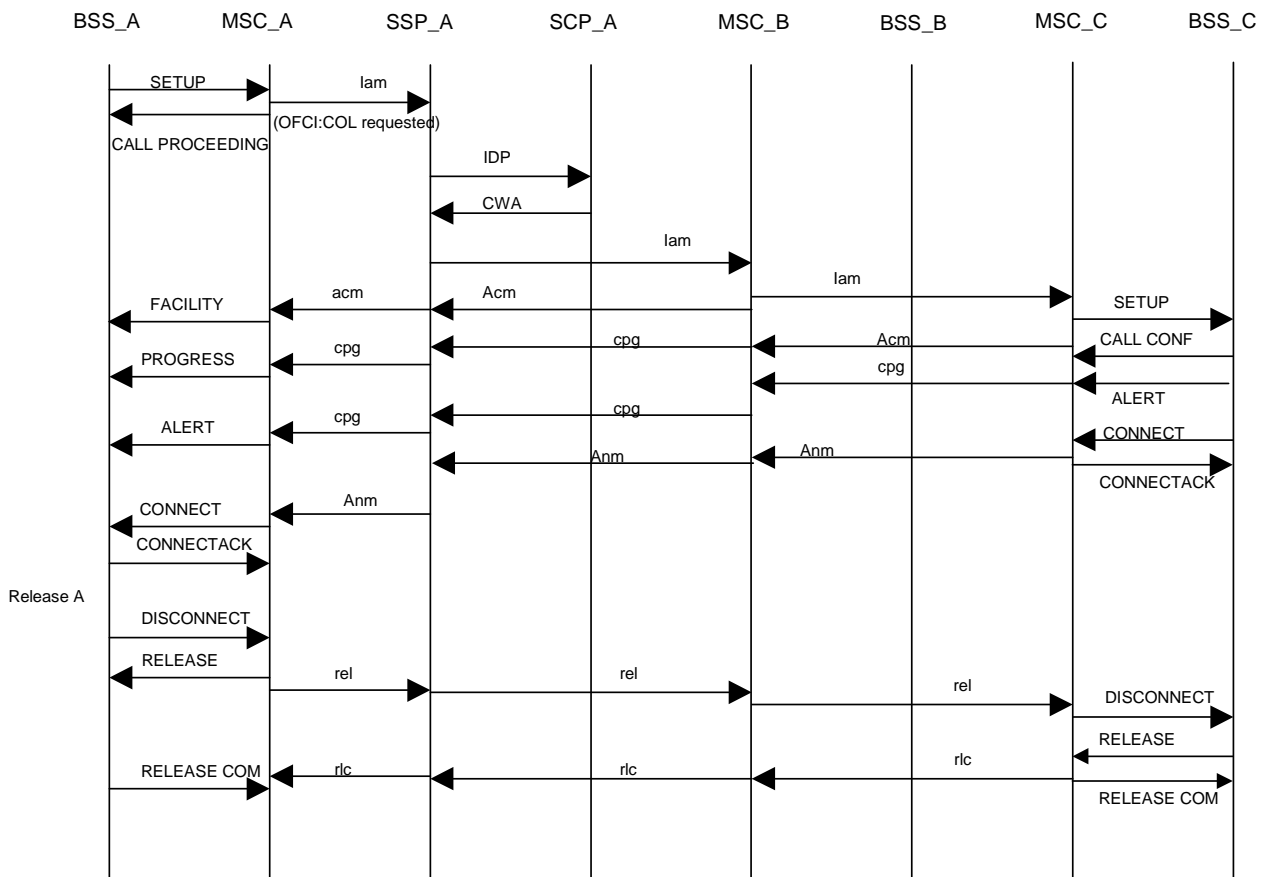


Figure 31: Number translation services; Supplementary Service CFU with the "callDiversionAllowed" parameter received in the CWA Message

GGG_SPNS_CFx01_CFB_CON

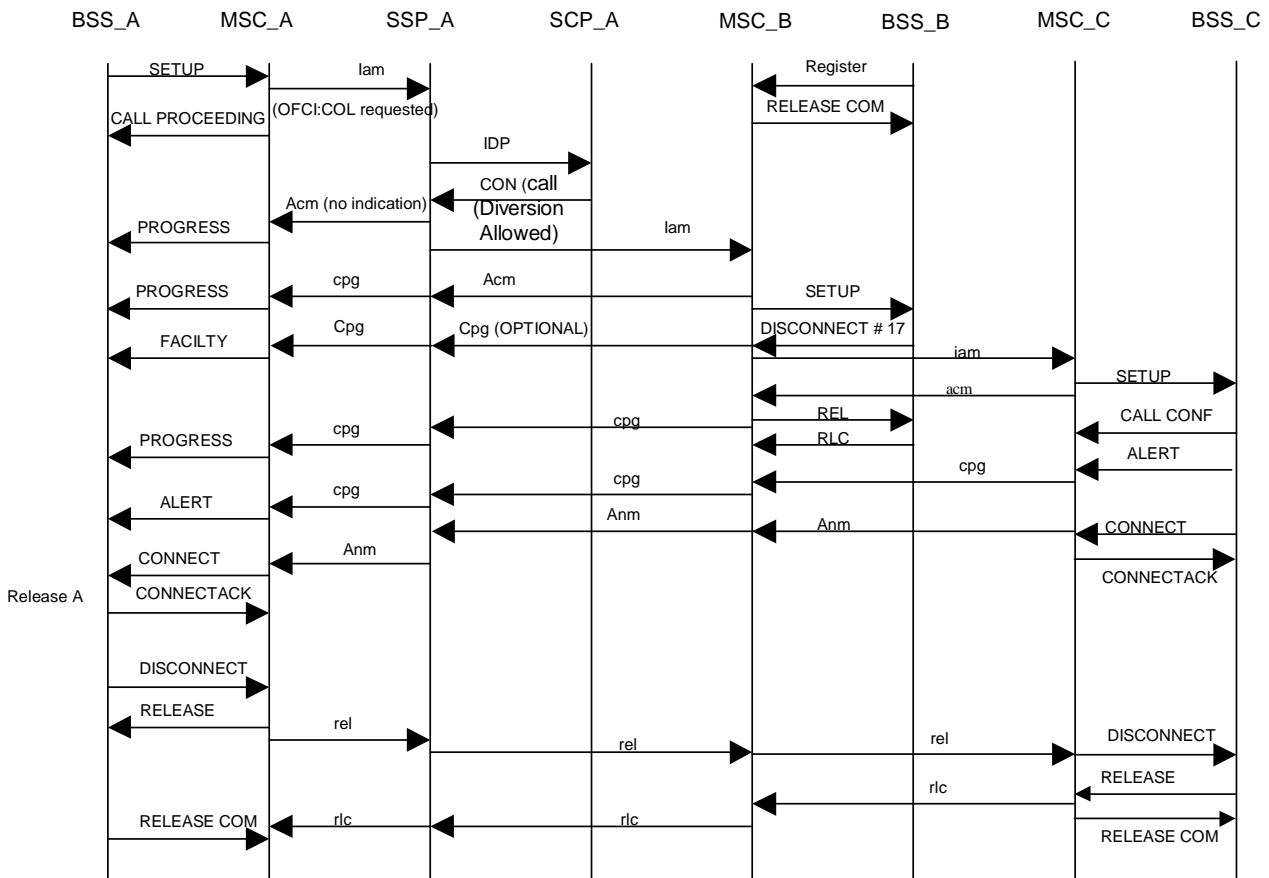


Figure 32: Number translation services; Supplementary Service CFB with the "callDiversionAllowed" parameter received in the CON Message

GGG_SPNS_CFX01_CFNRc_CON

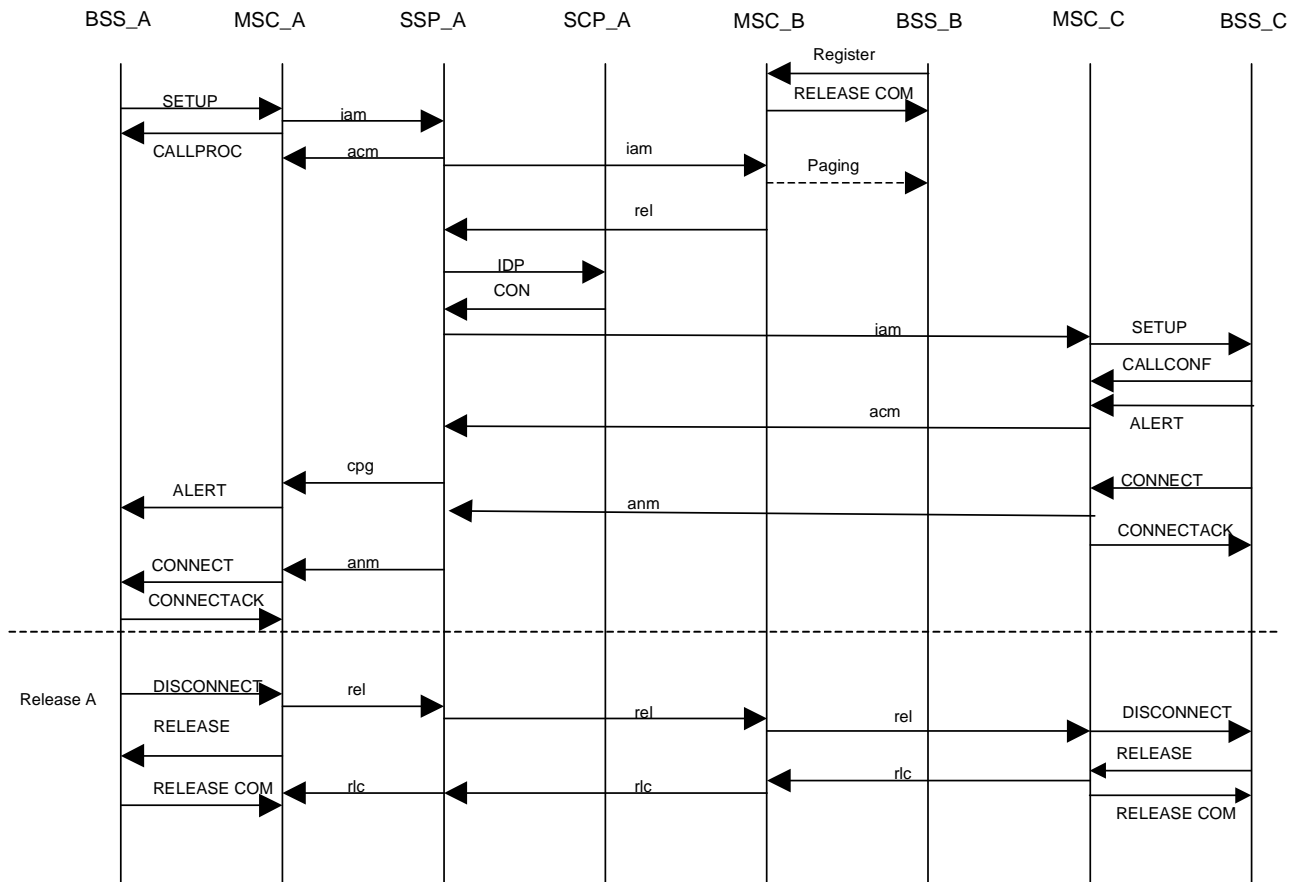
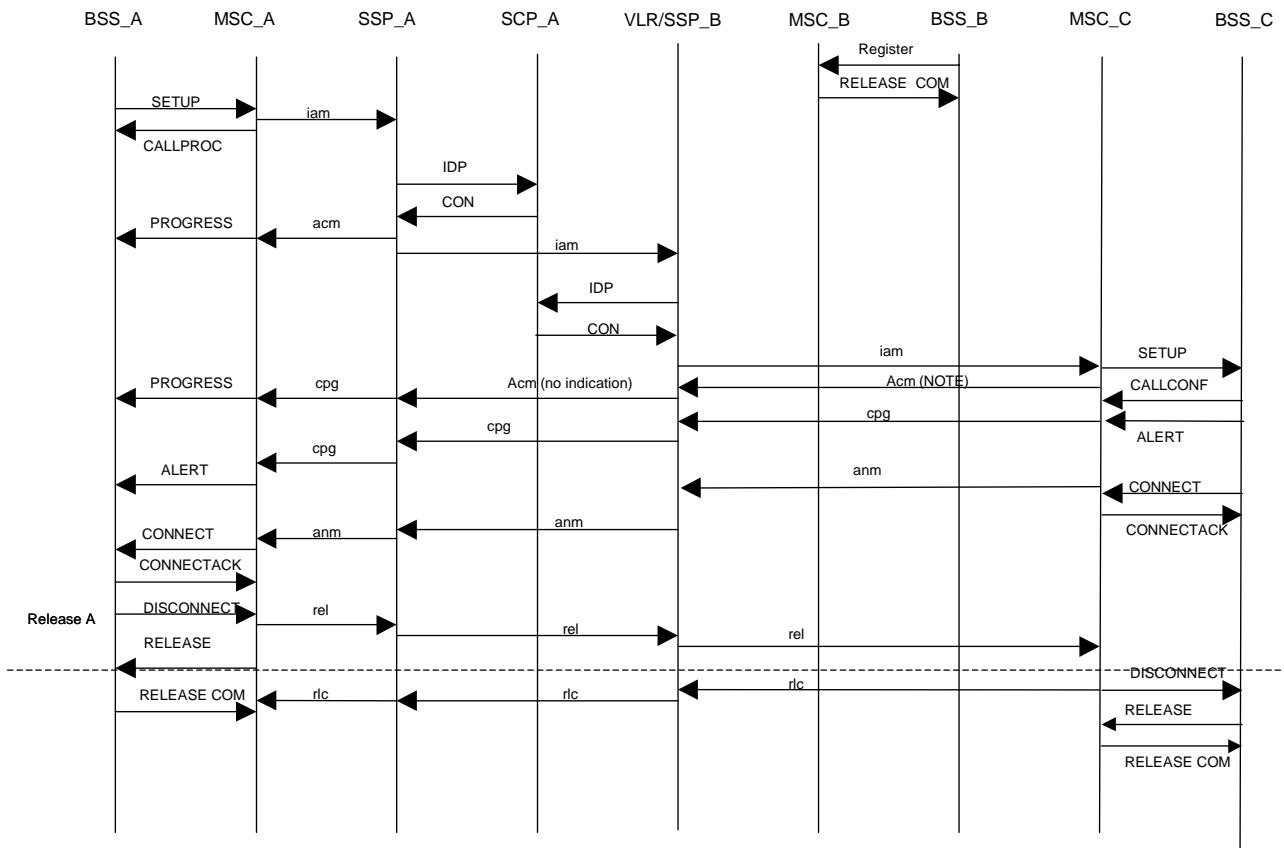


Figure 34: Number translation services; Supplementary Service CFNRc with the "callDiversionAllowed" parameter received in the CON Message

GG__xx NS CFxx 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	Other ref.: GSM Association PRD IR.32 clause 2.2.10.2 TS 129 078 clause A.3
TSS reference:	GSM to GSM/ Number translation services/Supplementary Services/CFxx	
GSM selection criteria origin.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
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.	
PCO / PO ISUP/CAP Interface parameter Values (note):	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.	
PCO / PO A/CAP 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.	
GSM parameter values origin.:	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	
Comments:		

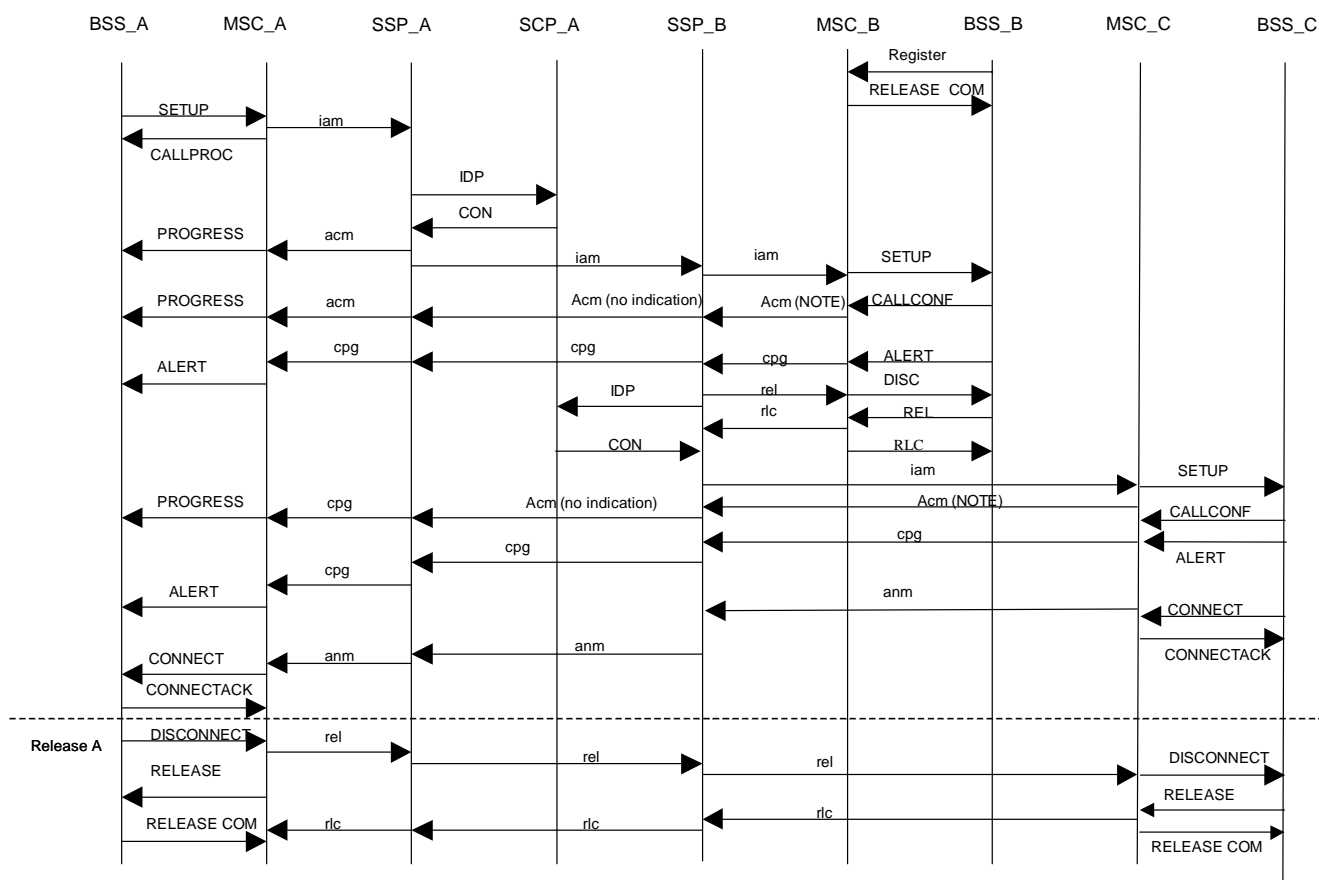
GGG_SPNS_CFX_02_CFU



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"

GG__xx NS CFxx 03	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	Other ref.: TS 129 078 clause A.3 GSM Association PRD IR.32 clause 12.1.8
TSS reference:	GSM to GSM/ Number translation services/Supplementary Services/CFxx	
GSM selection criteria origin.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
Test purpose:	MS A attempts a call to MS B. MS B has activated Call Forwarding defined with the Parameter Value CFxx. GSM call forwarding to IN Test Number 1 takes place. Additionally the contents of the InitialDP is checked in the mobile forwarded case.	
PCO / PO ISUP/CAP Interface parameter Values (note):	<p>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).</p> <p>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.</p> <p>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.</p> <p>Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.</p>	
PCO / PO A/CAP interface parameter Values (note):	<p>Initial Detection point No action</p> <p>Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.</p> <p>Receiving of a Release message Verify that the IUT can successfully release the call.</p>	
GSM parameter values origin.:	<p>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).</p> <p>LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE</p> <p>HLC = HLC_ID</p>	
GSM parameter values term.:	<p>GSM-BC = GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE</p> <p>LLC = synchronous/ asynchronous mode: MODE user rate: USER_RATE</p> <p>HLC = HLC_ID</p>	
Comments:		

GGG_SPNS_CFXx_03_CFNRc

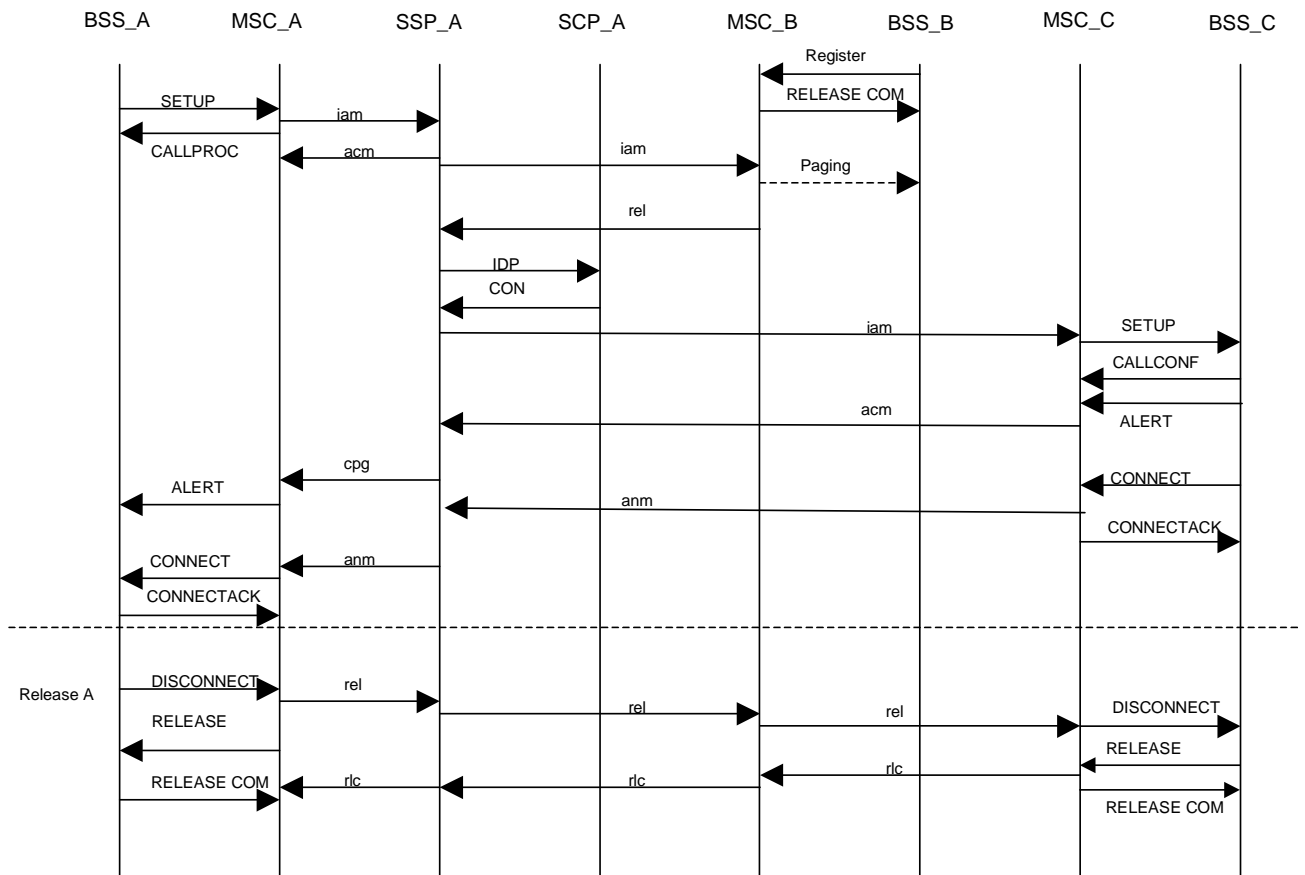
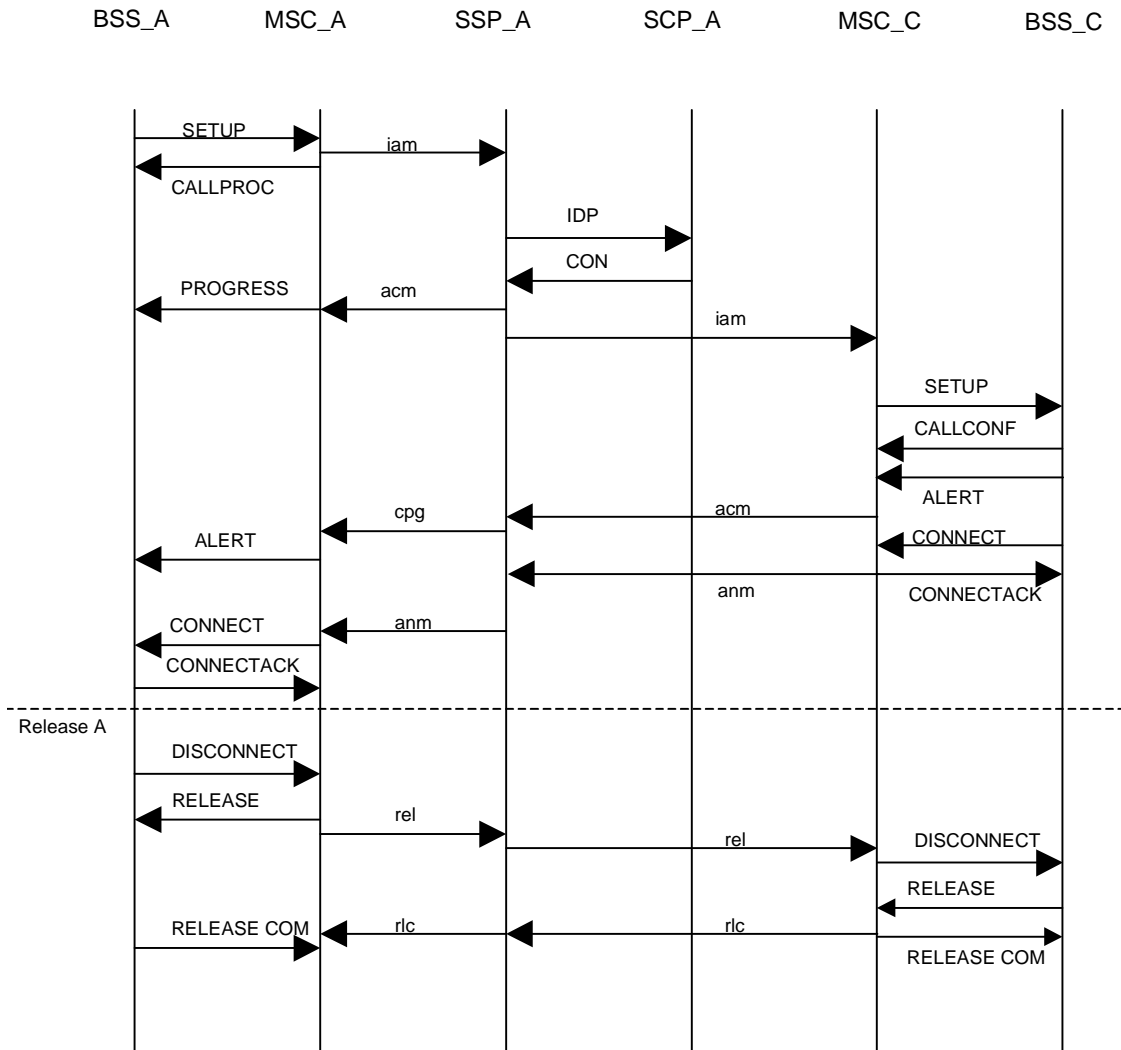


Figure 37: Number translation services; Supplementary Service CFNRc; mapping of the IAM parameter IAM_PAR_ID to the InitialIDP parameter InitialIDP_PAR_ID

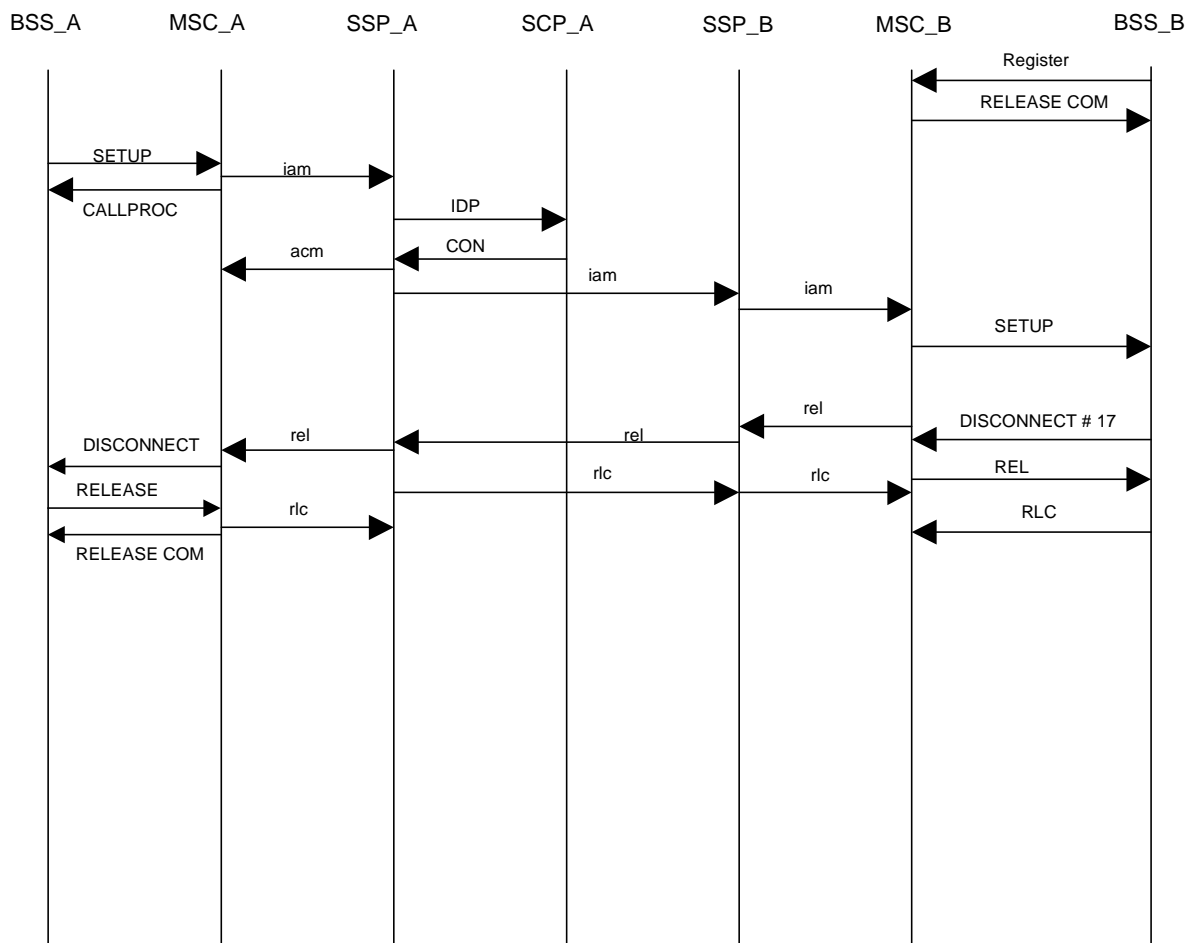
Interface parameter Values for test purpose GG_xx NSCFxx 01 to GG_xx NSCFxx 03	
Variable	Parameter CFxx
VA_01	CFU
VA_02	CFB
VA_03	CFNRc
VA_04	CFNRy

GG__xx NS CFU 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	Other ref.: TS 129 078 clause A.3
TSS reference:	GSM to GSM/Number translation services/Supplementary Services/CFU	
GSM selection criteria origin.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
Test purpose:	User A attempts a call to number B. The called user B has activated CFU. Call forwarding unconditional activated by the GSM subscriber is suppressed, if "call diversion not allowed" was received in the call diversion treatment indicators (call to be diverted indicator). The call is offered to the subscriber.	
PCO / PO ISUP/CAP Interface parameter Values (note):	Initial Detection point No action 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. 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 A/CAP 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.	
GSM parameter values origin.:	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	
Comments:		



**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**

GG__xx NS CFB 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	Other ref.: TS 129 078 clause A.3
TSS reference:	GSM to GSM/Number translation services/Supplementary Services/	
GSM selection criteria origin.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
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 ISUP/CAP Interface parameter Values (note):	Initial Detection point No action 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. 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 A/CAP 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.	
GSM parameter values origin.:	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	
Comments:		



**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 CFNR 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	Other ref.: Other ref.: TS 129 078 clause A.3
TSS reference:	ISDN to GSM/Number translation services/Supplementary Services/CF	
GSM selection criteria origin.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
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 GSM 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 ISUP/CAP Interface parameter Values (note):	Initial Detection point No action 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. 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 A/CAP 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.	
GSM parameter values origin.:	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	
Comments:		

GG ____xx NS CCBS 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	Other ref.:
TSS reference:	GSM to GSM/Number translation services/Supplementary Services/CCBS	
GSM selection criteria orign.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
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 ISUP/CAP Interface parameter Values (note):	Initial Detection point No action 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. 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 A/CAP 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.	
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	
Comments:		

GG ____xx NS CCBS 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	Other ref.: TS 129 078 clause A.3
TSS reference:	GSM to GSM/ Number translation services/Supplementary Services/CCBS	
GSM selection criteria orign.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
Test purpose:	To verify that the Call is not routed to the Called Party Number, but to a translated Number. If "reject CCBS service request" was received in the CAP serviceInteractionIndicator parameter (call completion treatment indicator) in the Connect operation (PICS) or Continue operation (PICS) indicated", then in a received REL message a "CCBS possible" in the diagnostics field of the cause indicators is replaced with "CCBS not possible".	
PCO / PO ISUP/CAP Interface parameter Values (note):	Initial Detection point No action 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. If Connect Operation applies an ACM message is sent to the preceding exchange. Verify that the CAP serviceInteractionIndicatorsTwo parameter value (in the Connect Operation / Continue operation) indicated "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 A/CAP 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.	
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	
Comments:		

7.2 Support of IN services - Fixed Networks - Mobile

7.2.1 IN configurations

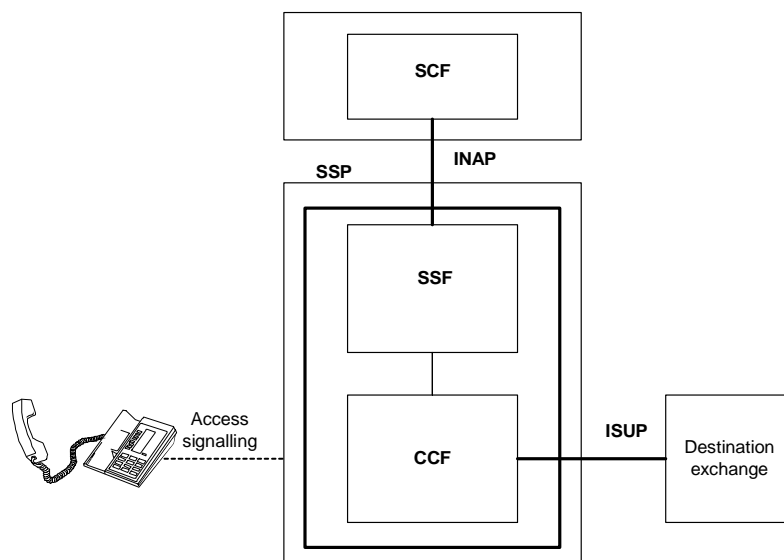


Figure 40: Outgoing case; Signalling configuration for IN call without SRF support

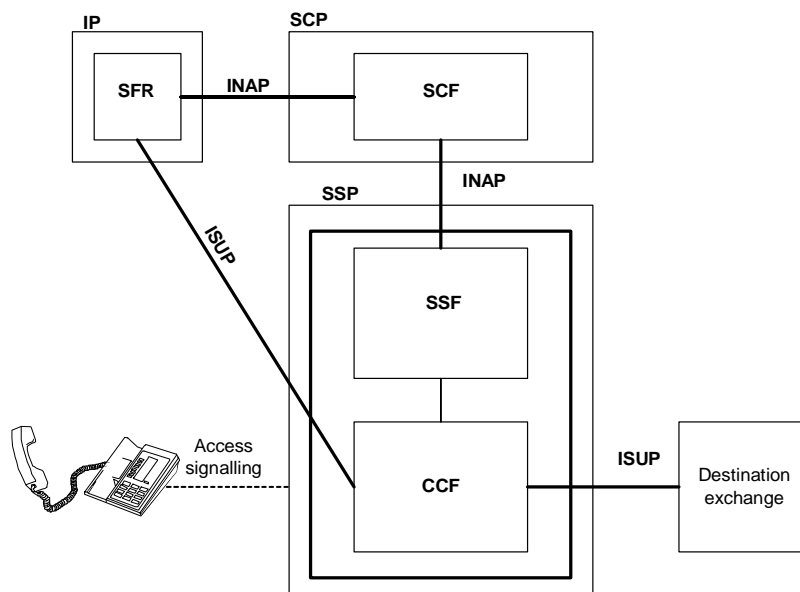


Figure 41: Outgoing case - External IP connected via ISUP; direct TCAP between SRF and SCF ("Assist" method)

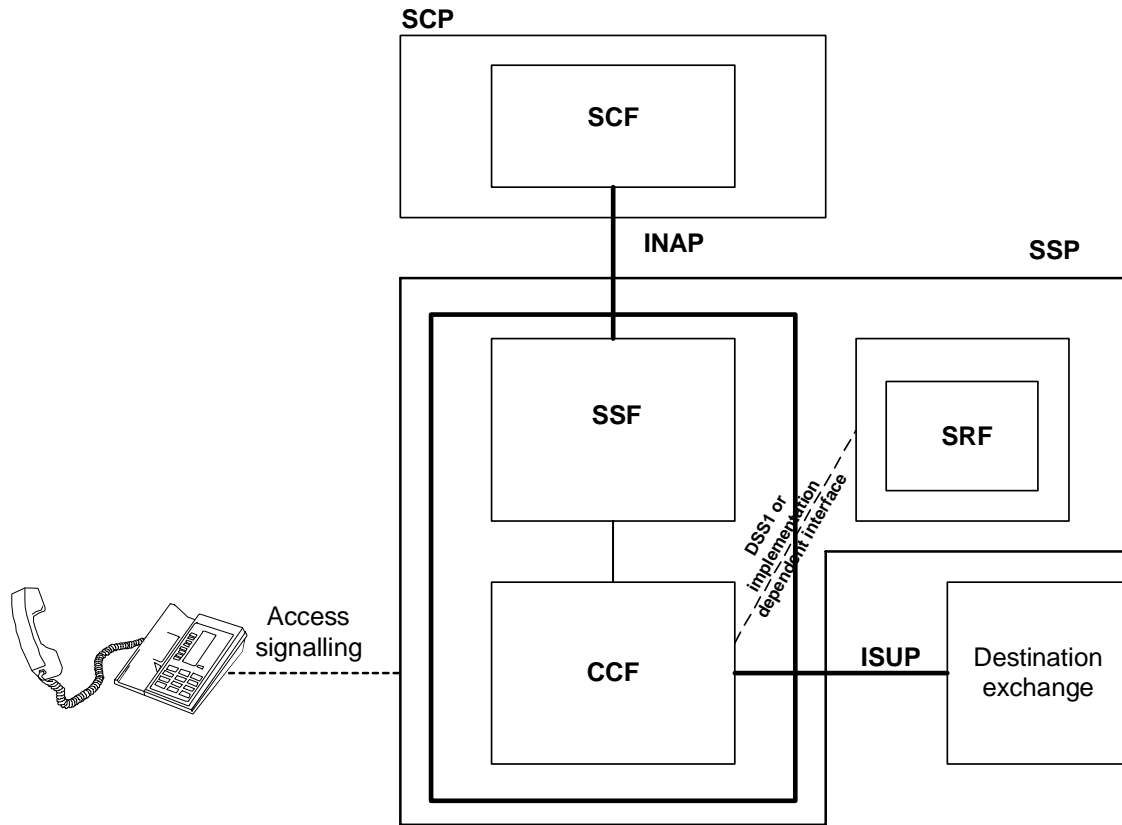


Figure 42: Outgoing case (Connection to integrated or external IP with SSP relay of IP operations)

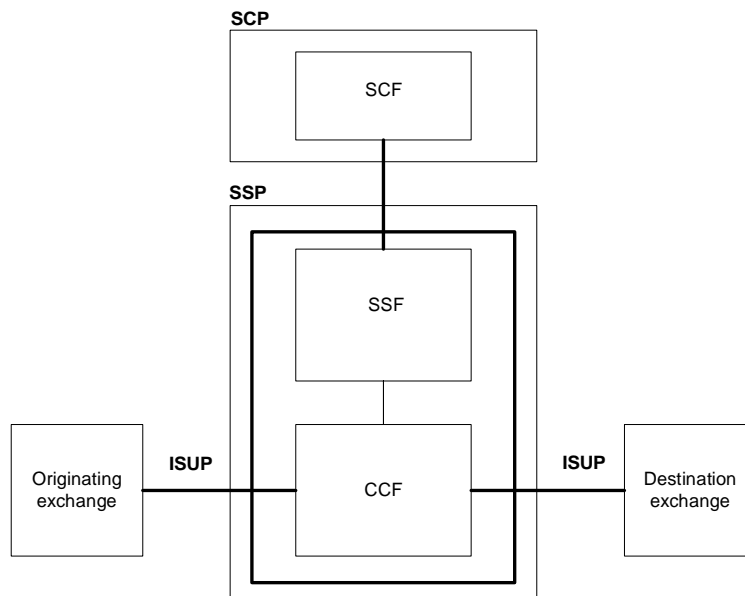
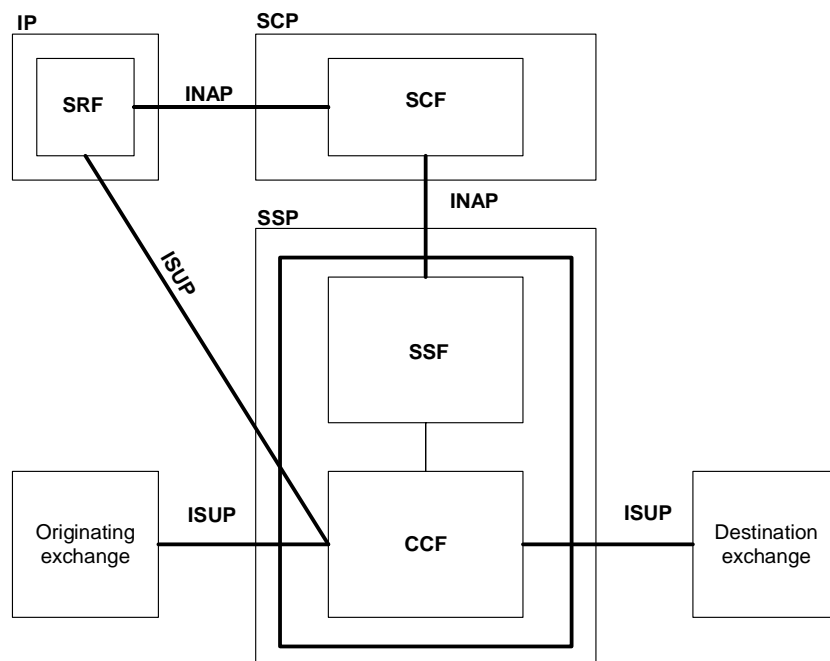


Figure 43: Terminating SSP - Signalling configuration for IN call without SRF support



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)]

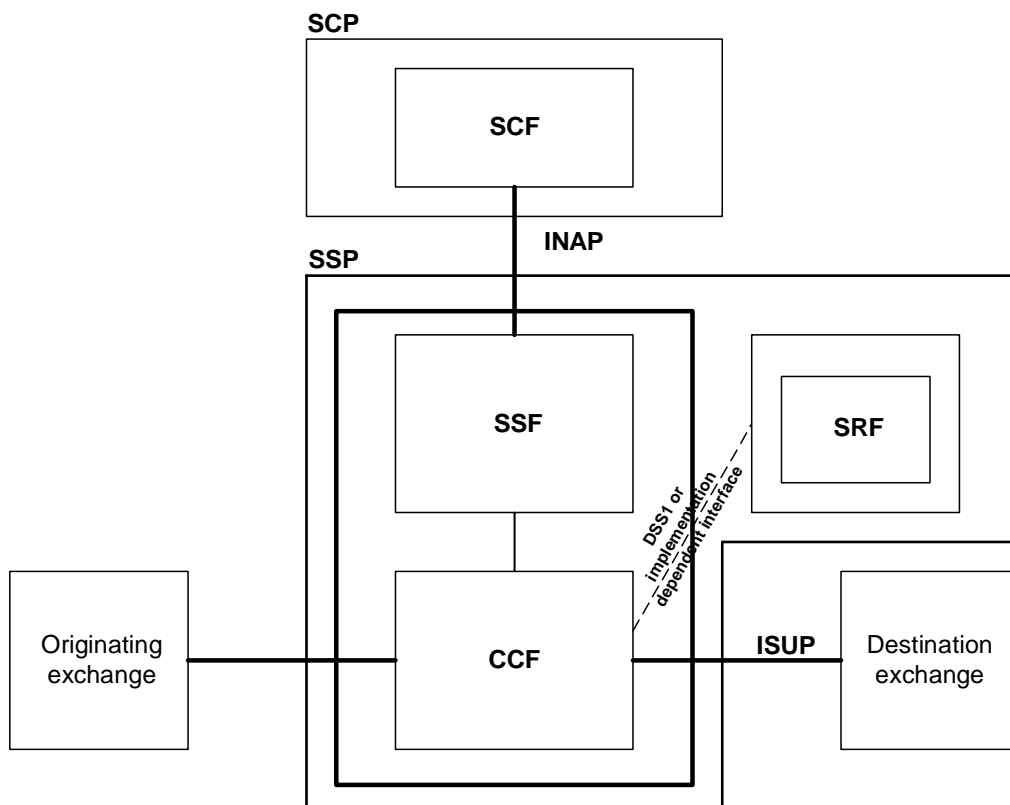


Figure 45: Terminating case (Connection to integrated or external IP with SSP relay of IP operations)

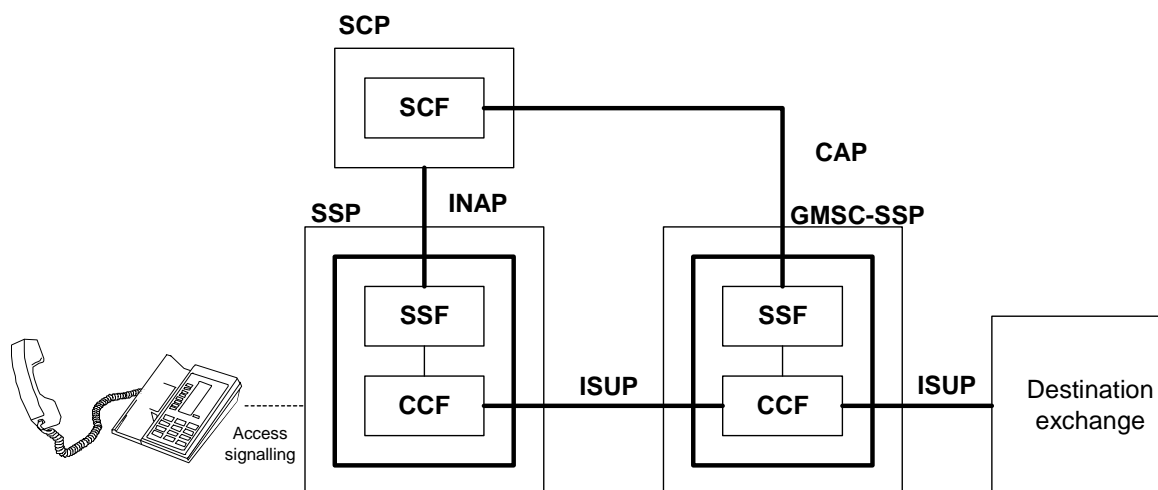


Figure 46: FMC originating case; Signalling configuration for IN call without SRF support

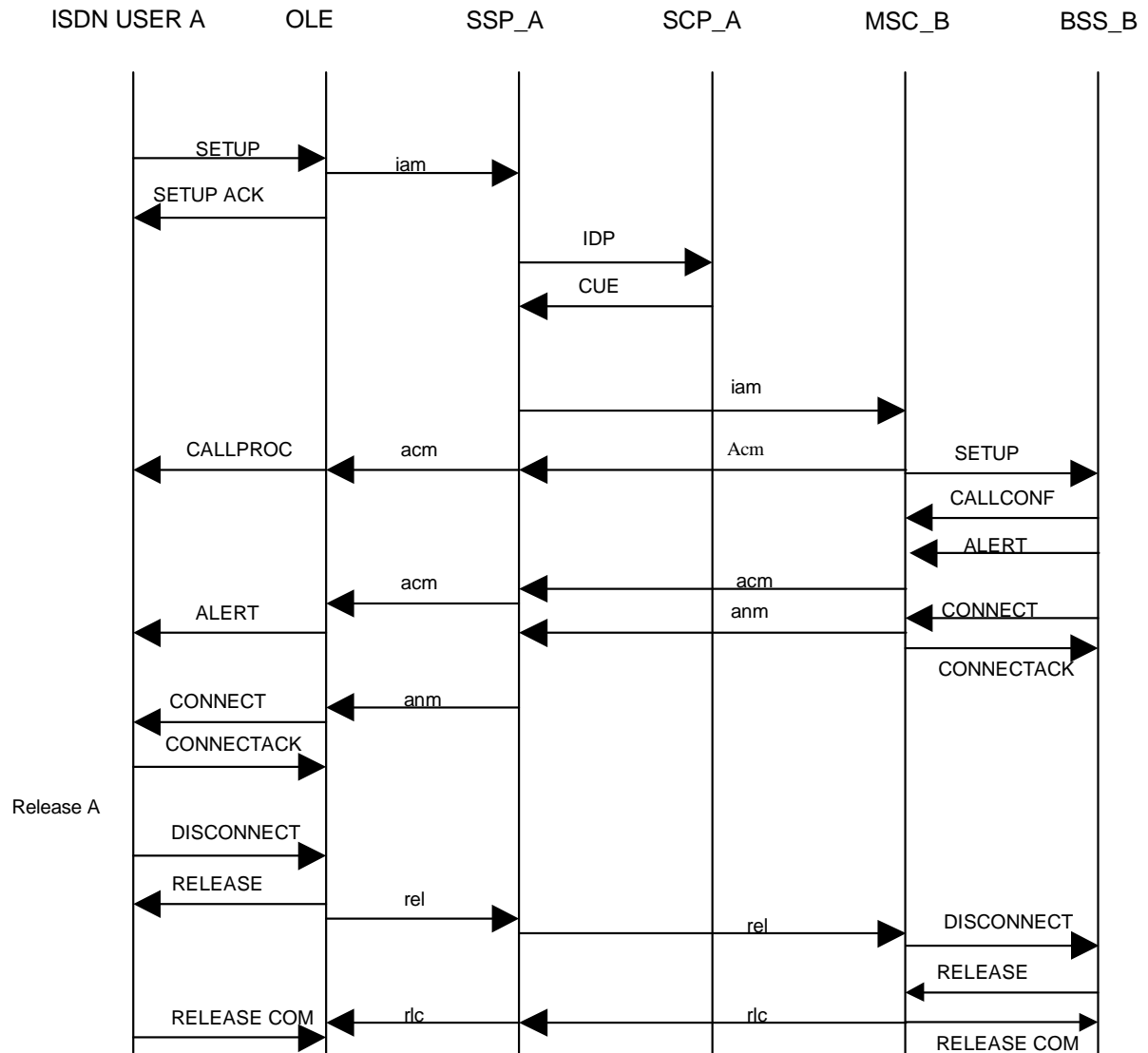
7.2.2 Test purposes for ISDN to GSM, Basic call

7.2.2.1 Successful

<h1>Successful</h1>

IG__xx N_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	Other ref.: EN 301 931-2 clause 14.3 Q.1601 clause 10.1.1.1.1.2
TSS reference:	ISDN to GSM/ Number translation services/Successful	
ISDN selection criteria origin.:	Numb_Trans	
GSM selection criteria term.:	Numb_Trans	
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 ISUP/INAP Interface parameter Values (note):	<p>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).</p> <p>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.</p> <p>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.</p> <p>Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.</p>	

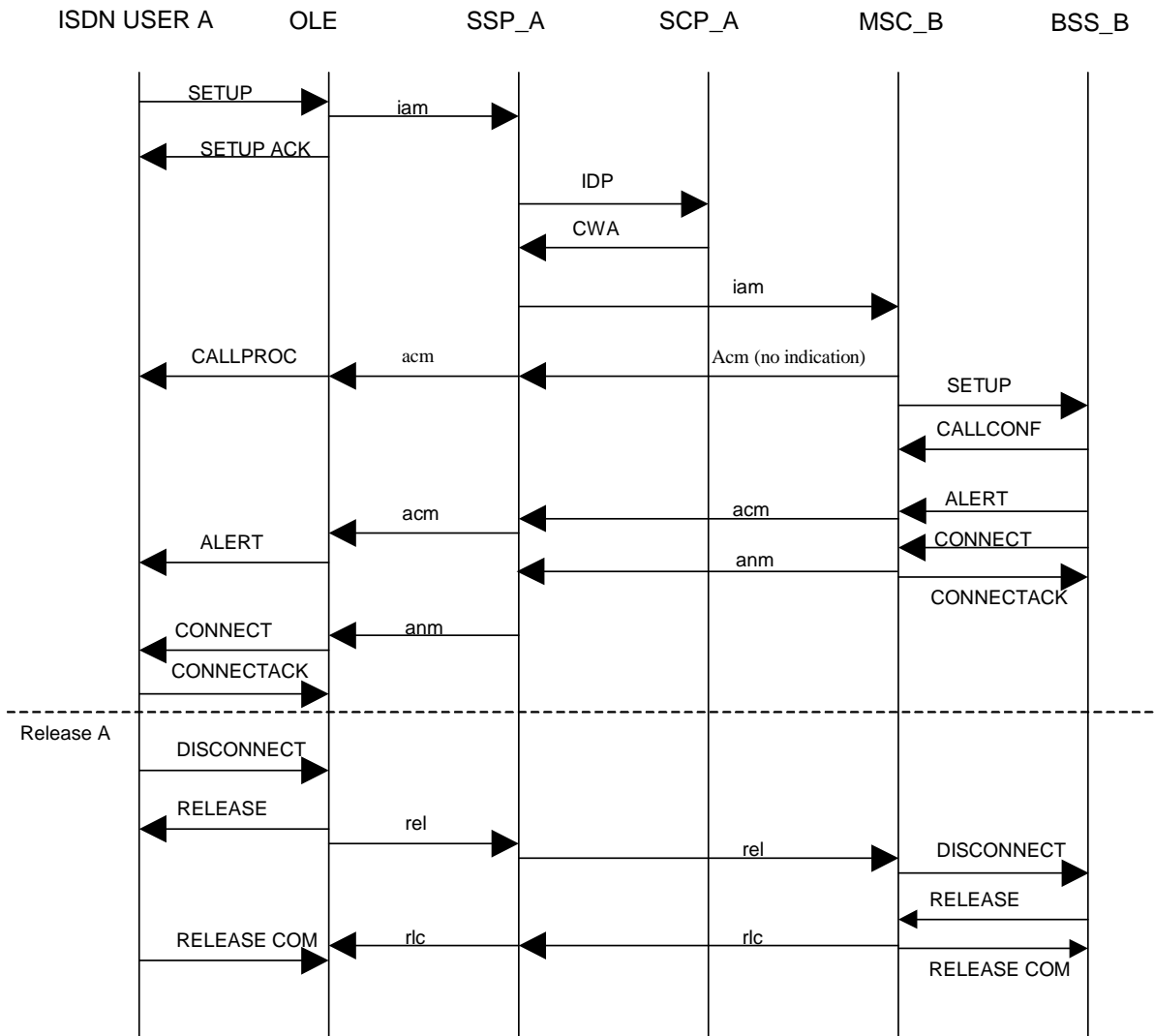
IG__xx N_ 01	GSM ref. to: EN 300 940 TS 101 285 (GSM 02.78) St 1 TS 101 044 (GSM 03.78) St 2 TS 101 046 (GSM 09.78) St 3	Other ref.: EN 301 931-2 clause 14.3 Q.1601 clause 10.1.1.1.1.2
PCO / PO ISDN/INAP interface parameter Values (note):	Initial Detection point Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP parameter InitialIDP_PAR_ID (see annex C). 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 origin.:	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	
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	
Comments:		



NOTE: The ACM message is optional.

Figure 47: Number translation service flow with Continue Message operation

IG__xx N_ 02	GSM ref. to: EN 300 940 TS 101 285 (GSM 02.78) St 1 TS 101 044 (GSM 03.78) St 2 TS 129 078 St 3, Annex A	Other ref.: EN 301 931-2 clause 14.3 Q.1601 clause 10.1.1.1.1.3
TSS reference:	ISDN to GSM/Number translation services/Successful	
ISDN selection criteria origin.:	Numb_Trans	
GSM selection criteria term.:	Numb_Trans	
Test purpose:	Verify that the Call is routed to the Called Party Number with a ContinueWithArgument operation. Ensure that the parameter received in the ServiceInteractionIndicatorsTwo received from the SCP in the ContinueWithArgument operation will be sent in the IAM by the SSP.	
PCO / PO ISUP/INAP Interface parameter Values (note):	<p>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).</p> <p>Receiving of Continue message On receipt of a ContinueWithArgument operation from the SCP, call processing is resumed and the call setup will be performed as described in 2.1.2.2/Q.764. Ensure that the CONTINUE_PAR_ID parameters received from the SCP in the ContinueWithArgument operation will be mapped in the IAM by the SSP. Parameters which were received in the IAM and are not replaced by parameters of the ContinueWithArgument operation are treated according to the normal procedures.</p> <p>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.</p> <p>Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.</p>	
PCO / PO ISDN/INAP interface parameter Values (note):	<p>Initial Detection point Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP parameter InitialDP_PAR_ID (see annex C).</p> <p>Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.</p> <p>Receiving of a Release message Verify that the IUT can successfully release the call.</p>	
ISDN parameter values origin.:	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	
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	
Comments:	Interworking only described in Q.1601 for serviceInteractionIndicatorsTwo. Mapping of all other optional parameters are not described (see EN 301 931-2)	

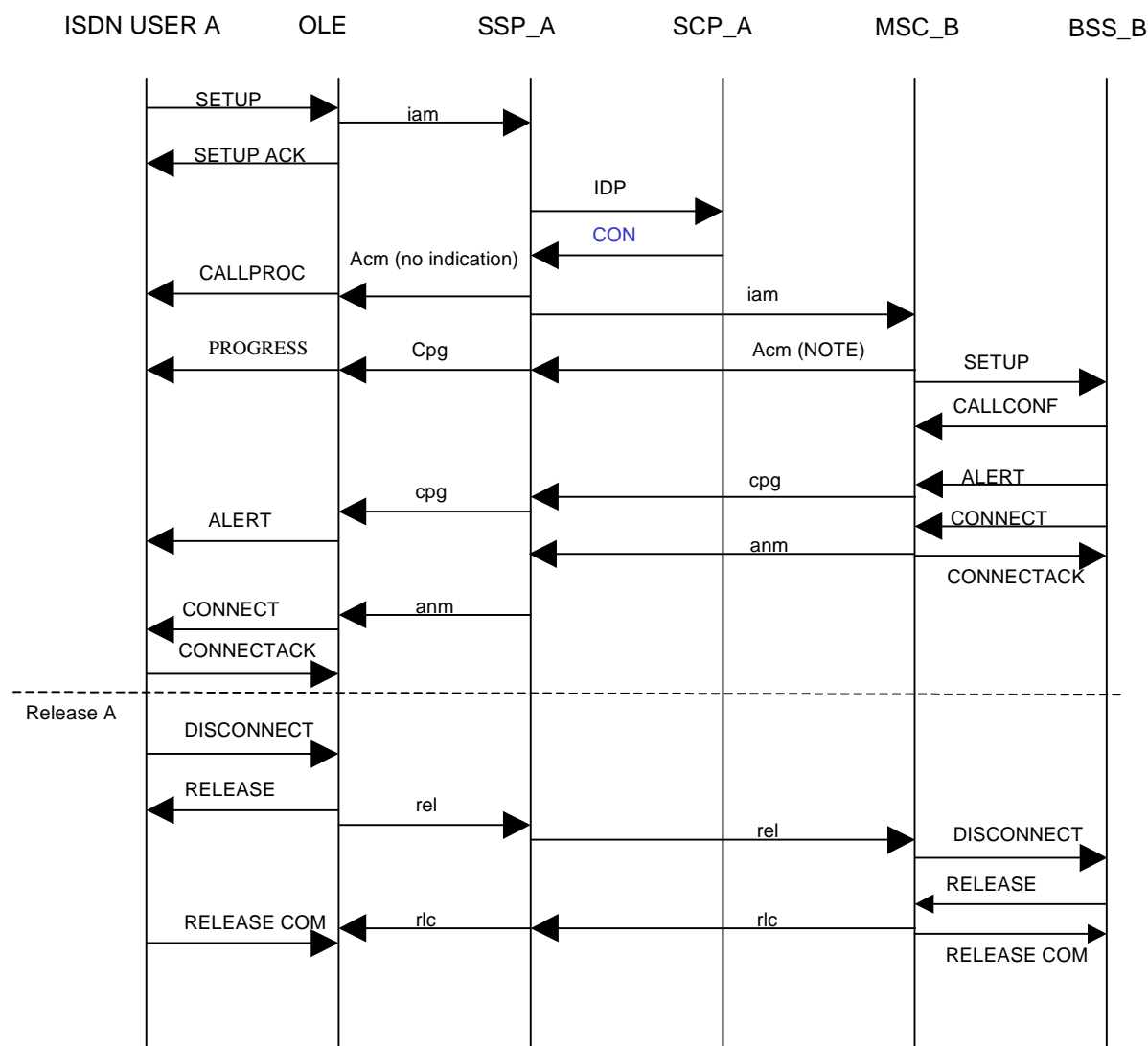


NOTE: The ACM message is optional.

Figure 48: Number translation service flow with a ContinueWithArgument operation

IG__xx N_ 03	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	Other ref.: Q.1601 clause 10.1.1.1.1.1
TSS reference:	ISDN to GSM/ Number translation services/Successful	
ISDN selection criteria origin.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
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.	
PCO / PO ISUP/INAP Interface parameter Values (note):	<p>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).</p> <p>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. (See mapping table, annex C). 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. The backward call indicators parameter in the ACM is encoded as defined in table 5.</p> <p>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.</p> <p>Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.</p>	
PCO / PO ISDN/INAP interface parameter Values (note):	<p>Initial Detection point Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP parameter InitialDP_PAR_ID (see annex C).</p> <p>Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.</p> <p>Receiving of a Release message Verify that the IUT can successfully release the call.</p>	
ISDN parameter values origin.:	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	
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	
Comments:		

IG__SPN_03



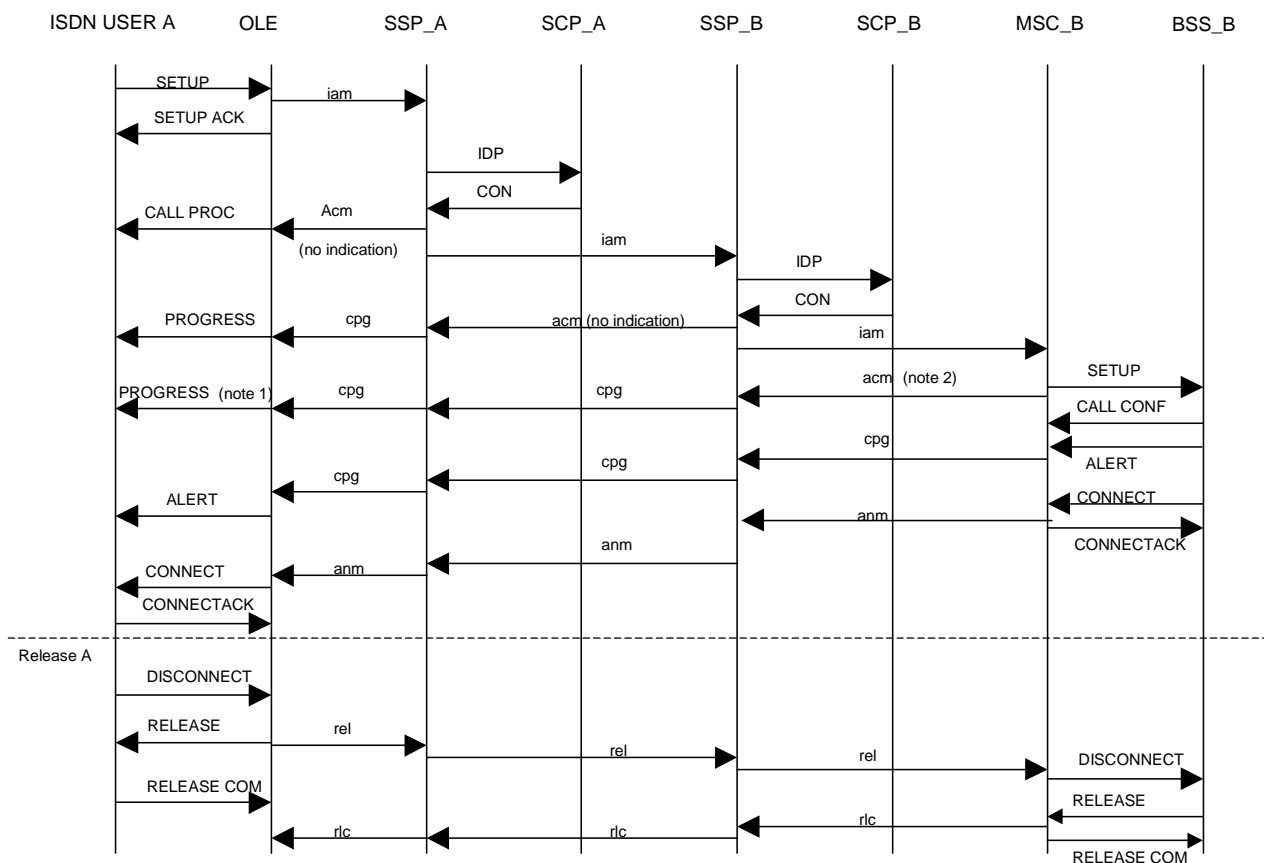
NOTE: The sending of the early ACM message is optional.

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)

IG__xx N_ 04	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	Other ref.: Q.1601 clause 10.1.1.1.2
TSS reference:	ISDN to GSM/ Number translation services/Successful	
ISDN selection criteria origin.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
Test purpose:	Verify that the Call is routed to the Called Party Number after the second stage Query.	
PCO / PO ISUP/INAP Interface parameter Values (note):	<p>Initial Detection point in IUT 1 Verify that the IUT can successfully map the IAM parameter IAM_PAR_ID to the InitialDP parameter InitialDP_PAR_ID (see annex C).</p> <p>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.</p> <p>Initial Detection point in IUT 2 Verify that the IUT can successfully map the IAM parameter IAM_PAR_ID to the InitialDP parameter InitialDP_PAR_ID (see annex C).</p> <p>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.</p> <p>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.</p> <p>Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.</p>	
PCO / PO ISDN/INAP interface parameter Values (note):	<p>Initial Detection point Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP parameter InitialDP_PAR_ID (see annex C).</p> <p>Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.</p> <p>Receiving of a Release message Verify that the IUT can successfully release the call.</p>	
ISDN parameter values origin.:	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	
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	
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.

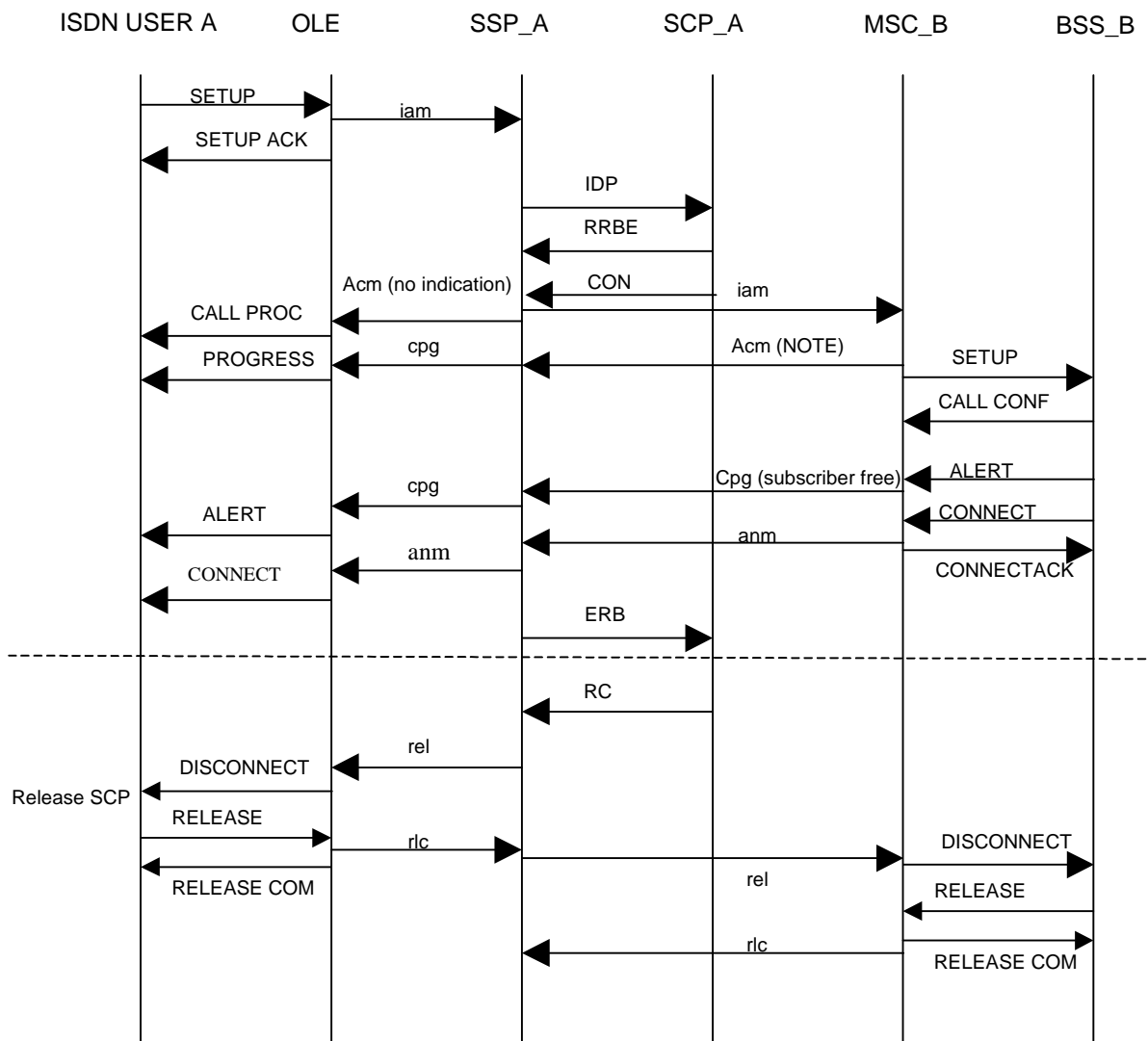
Figure 50: Number translation service flow with the Connect operation and the second stage Query

Table 6: Sending and mapping of backward messages

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

IG__xx N_ 05	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	Other ref.: EN 301 931-2 GSM Association PRD IR.32 clause 2.2.4 Q.1601 clause 10.1.1.1.1.1
TSS reference:	ISDN to GSM/ Number translation services/Successful	
ISDN selection criteria origin.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
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 ISUP/INAP Interface parameter Values (note):	Initial Detection point No action. Connect Operation 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 ISDN/INAP interface parameter Values (note):	Initial Detection point Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP parameter InitialIDP_PAR_ID (see annex C). 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 origin.:	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	
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	
Comments:	Service logic The SCF alters the destination address. SCF sends RRBE ([O_Answer,notify], [O_Disc,interrupted, legID=1], [O_Disc,interrupted, 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	

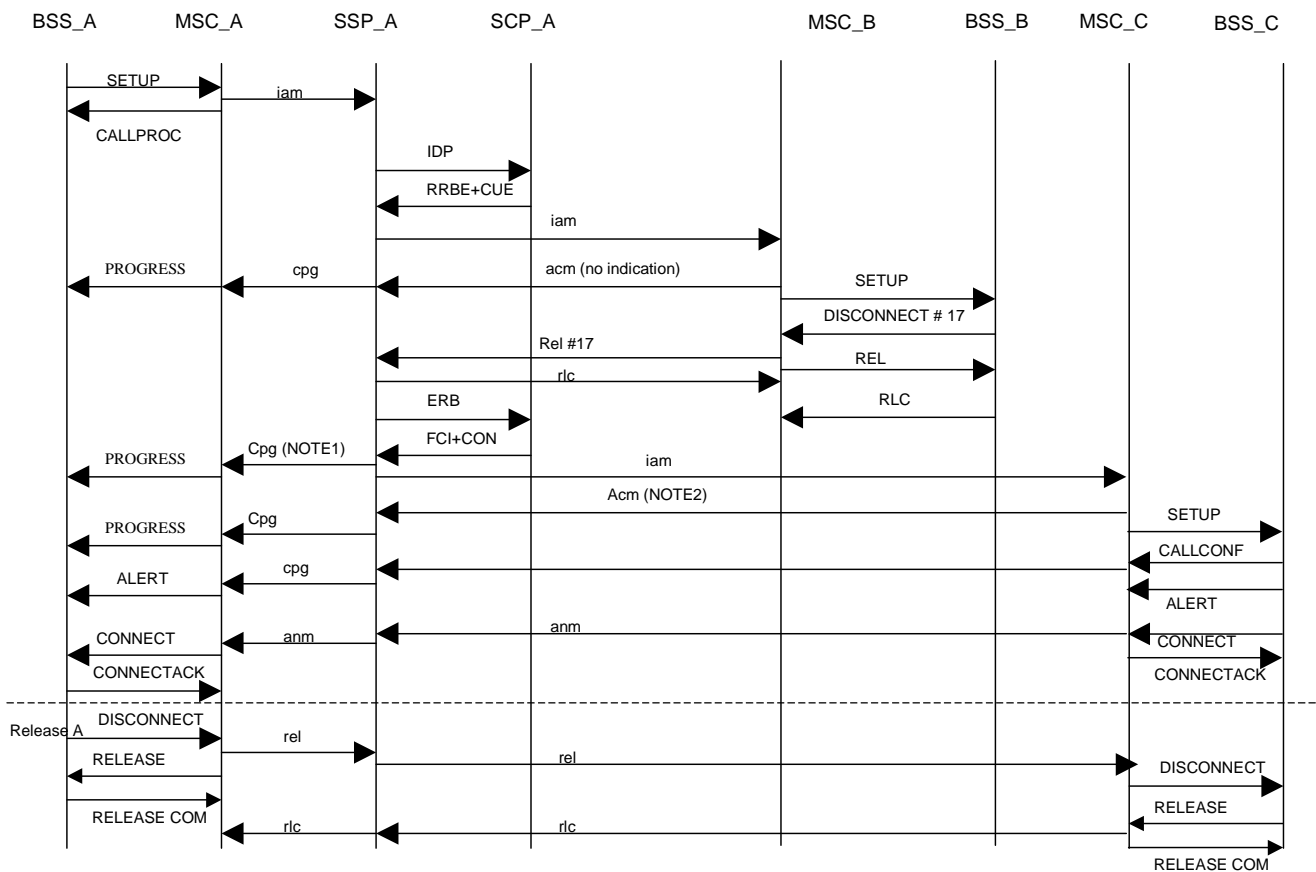
IG__SPN_05



NOTE: The sending of an early ACM is optional.

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

IG__xx N_ 06	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	Other ref.: EN 301 931-2 GSM Association PRD IR.32 clause 2.2.5.2 Q.1601 clause 10.1.1.1.1
TSS reference:	ISDN to GSM/ Number translation services/Successful	
ISDN selection criteria origin.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
Test purpose:	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.	
PCO / PO ISUP/INAP Interface parameter Values (note):	<p>Initial Detection point No action</p> <p>Continue Operation No action</p> <p>Release Operation An REL with cause value # 17 message is sent to the preceding exchange.</p> <p>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.</p> <p>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.</p> <p>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 ISDN/INAP interface parameter Values (note):	<p>Initial Detection point Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP parameter InitialDP_PAR_ID (see annex C).</p> <p>Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.</p> <p>Receiving of a Release message Verify that the IUT can successfully release the call.</p>	
ISDN parameter values origin.:	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	
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	
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 Event CUE: Continue ERB: Event Report BCSM FCI: Furnish Charging Info	



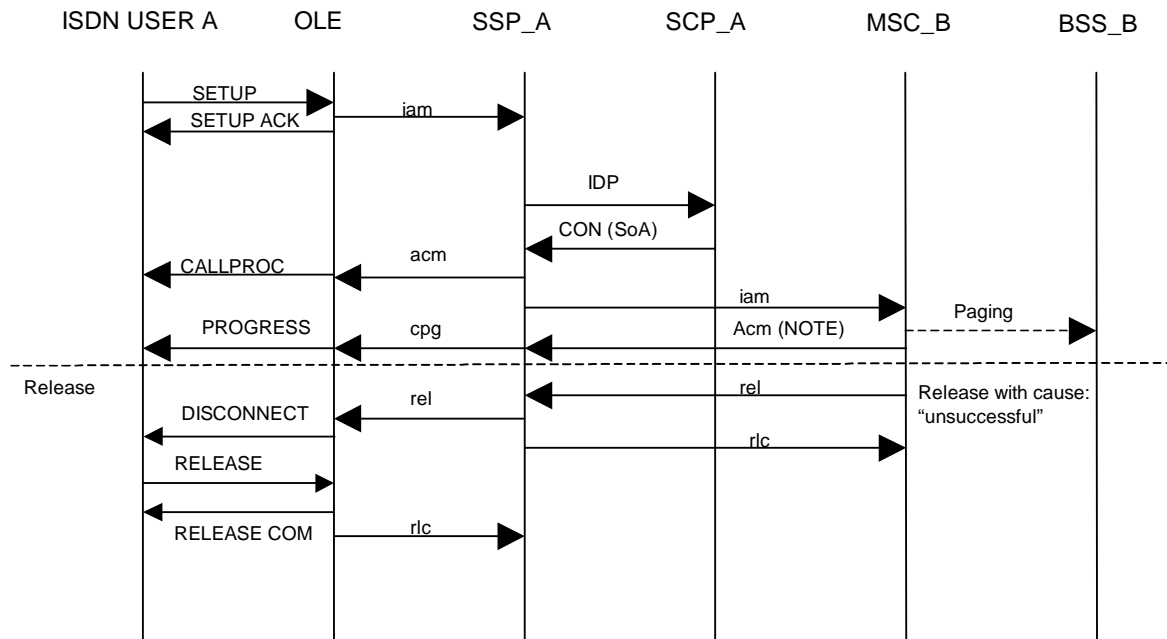
NOTE 1: The CPG message is optional.

NOTE 2: The ACM message is optional.

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

IG__xx N_ 07	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	Other ref.: Q.1601 clause10.1.1.1.1.1
TSS reference:	ISDN to GSM/ Number translation services/Successful	
ISDN selection criteria origin.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
Test purpose:	User A makes a call to user B. SCP instructs in the Connect Operation the SSP to suppress announcements. Verify the utilization of the parameter SuppressionOfAnnocement.	
PCO / PO ISUP/INAP Interface parameter Values (note):	Initial Detection point No action Connect Operation 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 ISDN/INAP interface parameter Values (note):	Initial Detection point Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP parameter InitialIDP_PAR_ID (see annex C). 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 origin.:	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	
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	
Comments:		

IG__SPN_07

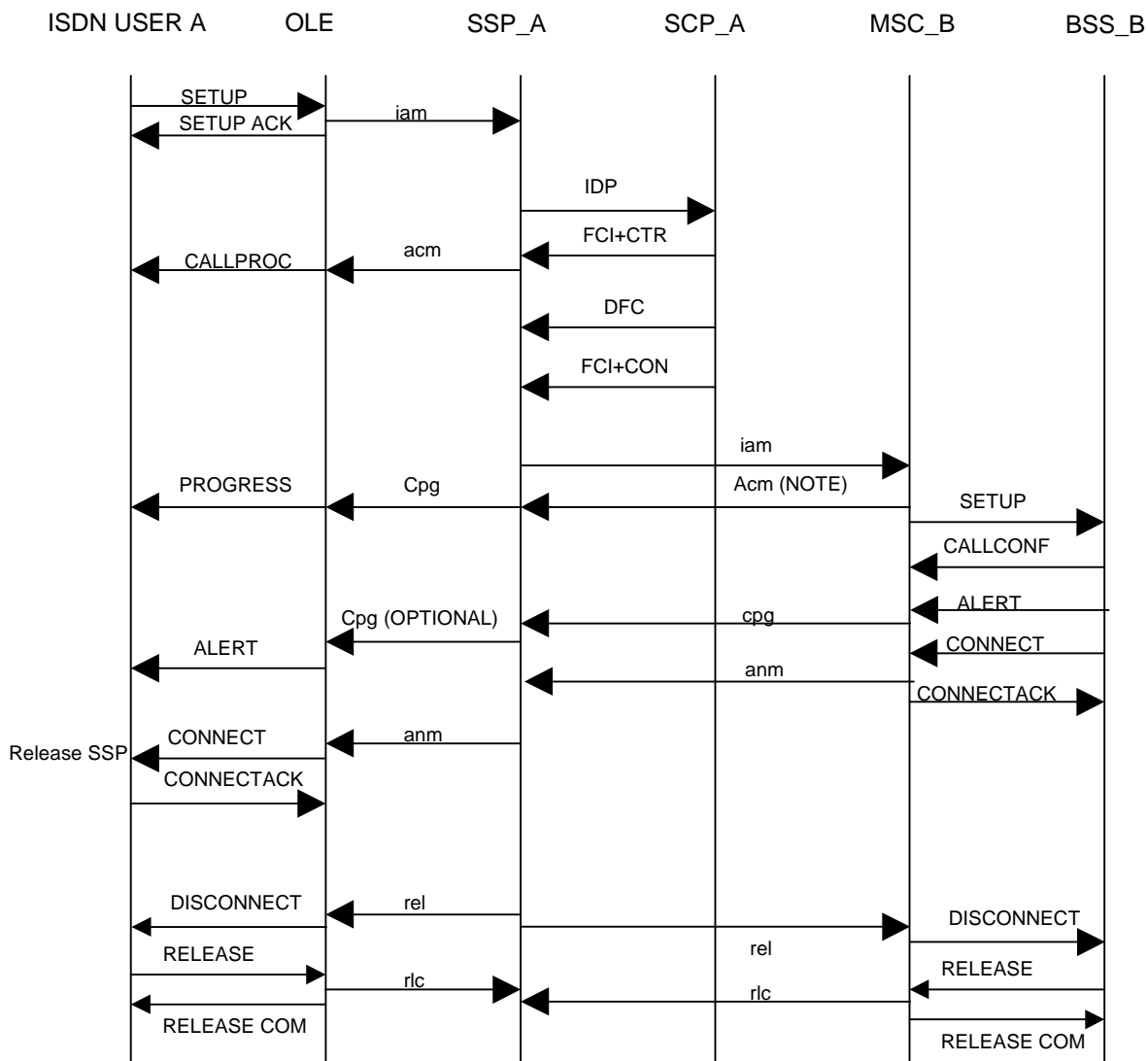


NOTE: The sending of the early ACM message is optional.

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

IG__xx N_ 08	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	Other ref.: Q.1601 clause 10.1.1.1.1
TSS reference:	ISDN to GSM/ Number translation services/Successful	
ISDN selection criteria origin.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
Test purpose:	User A makes a call to user B. The Announcement is charged with a different value compared to the established call. Verify the utilization of the parameter Furnish Charging Info.	
PCO / PO ISUP/INAP Interface parameter Values (note):	Initial Detection point No action Connect Operation No action Sending of backward messages No action	
PCO / PO ISDN/INAP interface parameter Values (note):	Initial Detection point No action Sending of backward messages No action Receiving of a Release message No action	
ISDN parameter values origin.:	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	
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	
Comments:		
Abbreviations:	AC: ApplyCharging ACR: ApplyChargingReport CIRReq: 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	

IG__SPN_08



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: 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	Other ref.:
TSS reference:	ISDN to GSM/ Number translation services/Unsuccessful	
ISDN selection criteria origin.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
Test purpose:	To verify that the Call is released immediately and that no rerouting activity takes place if the SCP recognizes that a barred number is dialled.	
PCO / PO ISUP/INAP Interface parameter Values (note):	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):	Receiving of a Release message Verify that the IUT can successfully release the call.	
ISDN parameter values origin.:	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	
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	
Comments:		

IG__SPNU_01

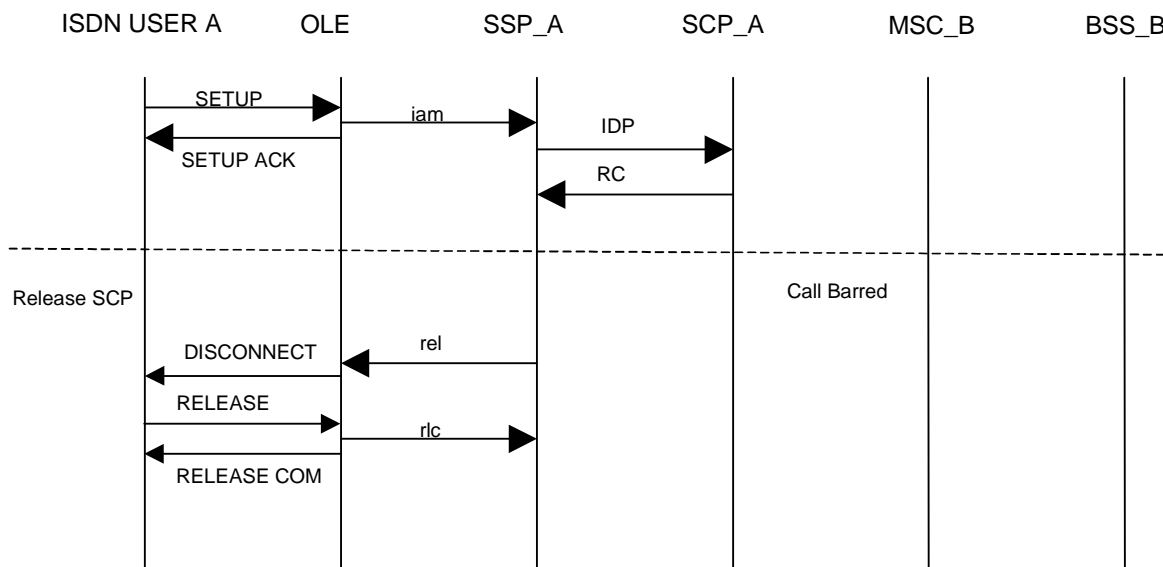


Figure 55: Unsuccessful number translation service flow, SCP recognizes that a barred number is dialled

Values for test purposes IG__xx 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

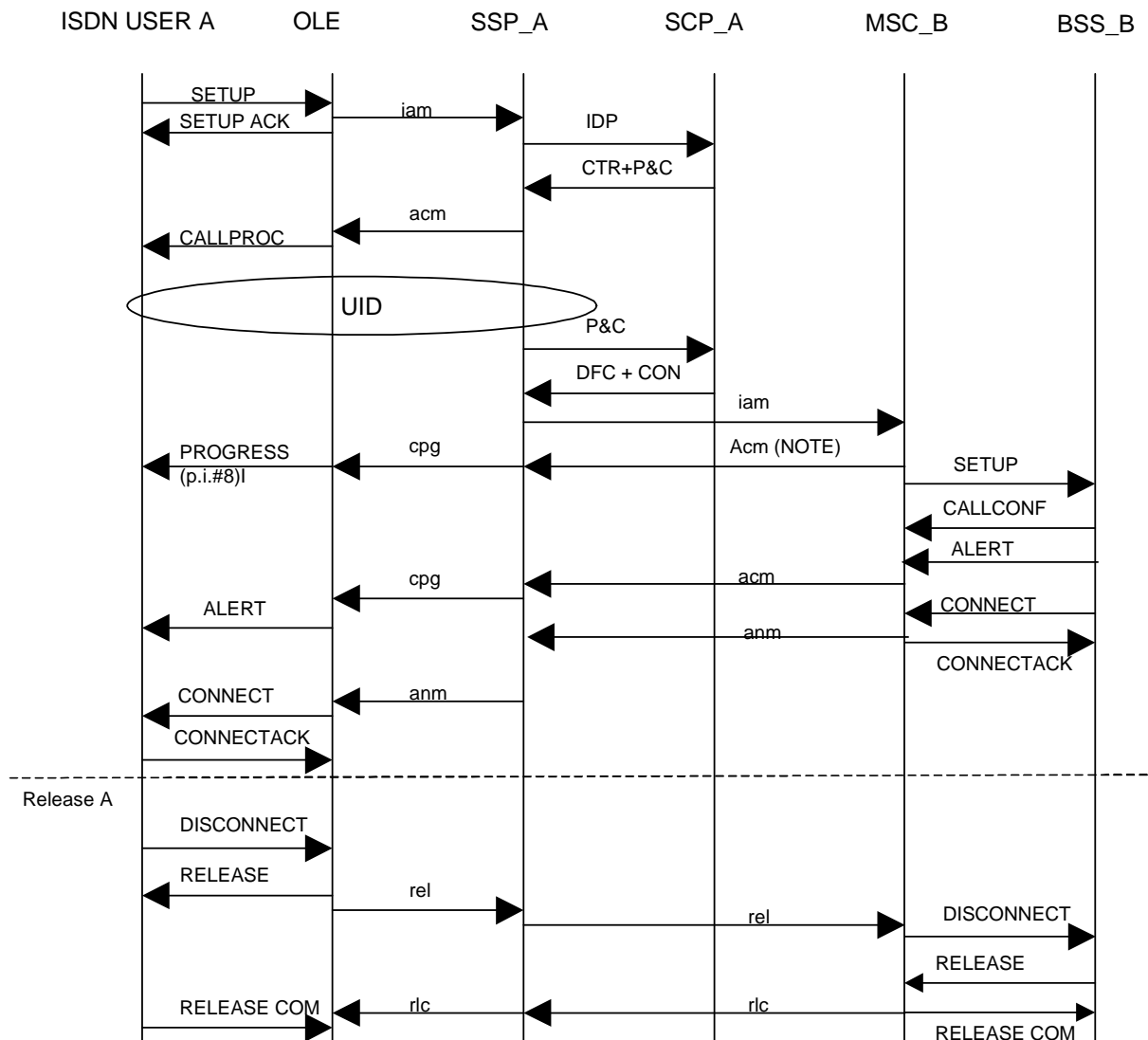
7.2.3 Services with user interactive dialogue

7.2.3.1 Successful

IG__xx 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	Other ref.: Q.1601 clause 10.1.5
TSS reference:	ISDN to GSM/ Services with user interactive dialogue/Successful	
ISDN selection criteria origin.:	Numb_Trans, IN call with user interactive dialogue (in-band) SSP supports requested IP capabilities, OLE supports UID capabilities	
GSM selection criteria term.:	Services with user interactive dialogue	
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 ISUP/INAP Interface parameter Values (note):	<p>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).</p> <p>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:</p> <p>a) <i>Through-connection instruction</i> 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).</p> <p>b) <i>T9 timer instruction</i> 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).</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.</p>	

IG__xx 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	Other ref.: Q.1601 clause 10.1.5
PCO / PO ISDN/INAP interface parameter Values (note):	Initial Detection point Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP parameter InitialDP_PAR_ID (see annex C). 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 origin.:	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	
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	
Comments:		

IG__SPI_01



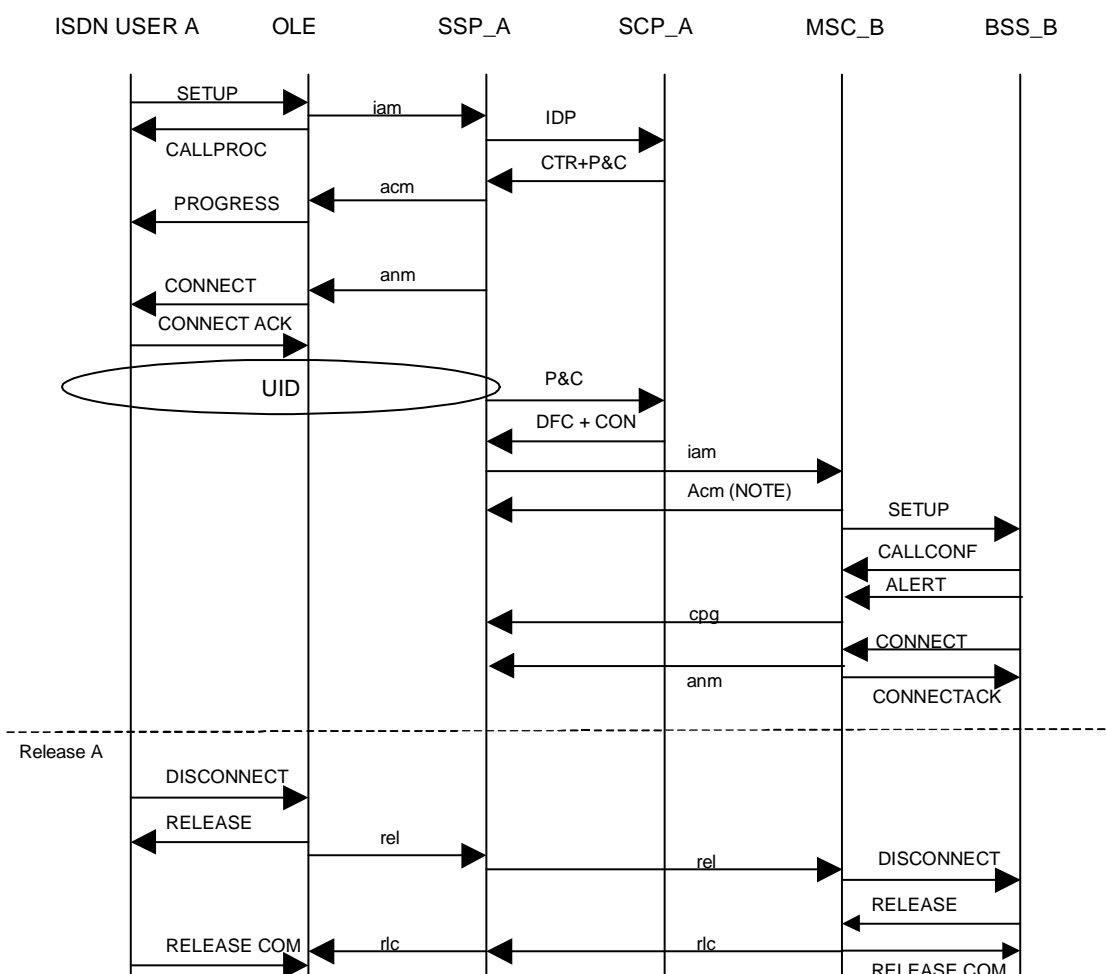
NOTE: The sending of the early ACM message is optional.

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

IG__xx 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	Other ref.: Q.1601 clause 10.1.5
TSS reference:	ISDN to GSM/ Services with user interactive dialogue /Successful	
ISDN selection criteria origin.:	Numb_Trans, IN call with user interactive dialogue (in-band) SSP supports requested IP capabilities, OLE does not support UID capabilities	
GSM selection criteria term.:	Services with user interactive dialogue	
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 ISUP/INAP Interface parameter Values (note):	<p>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).</p> <p>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) or no indication.</p> <p>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.</p> <p>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 this ITU-T Recommendation. 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.</p> <p>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.</p> <p>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.</p> <p>Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.</p>	
PCO / PO ISDN/INAP interface parameter Values (note):	<p>Initial Detection point Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP parameter InitialDP_PAR_ID (see annex C).</p> <p>Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.</p> <p>Receiving of a Release message Verify that the IUT can successfully release the call.</p>	
ISDN parameter values origin.:	<p>BC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE</p> <p>LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE</p> <p>HLC = HLC_ID</p>	

IG__xx 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	Other ref.: Q.1601 clause 10.1.5
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	
Comments:		

IG__SPI_02

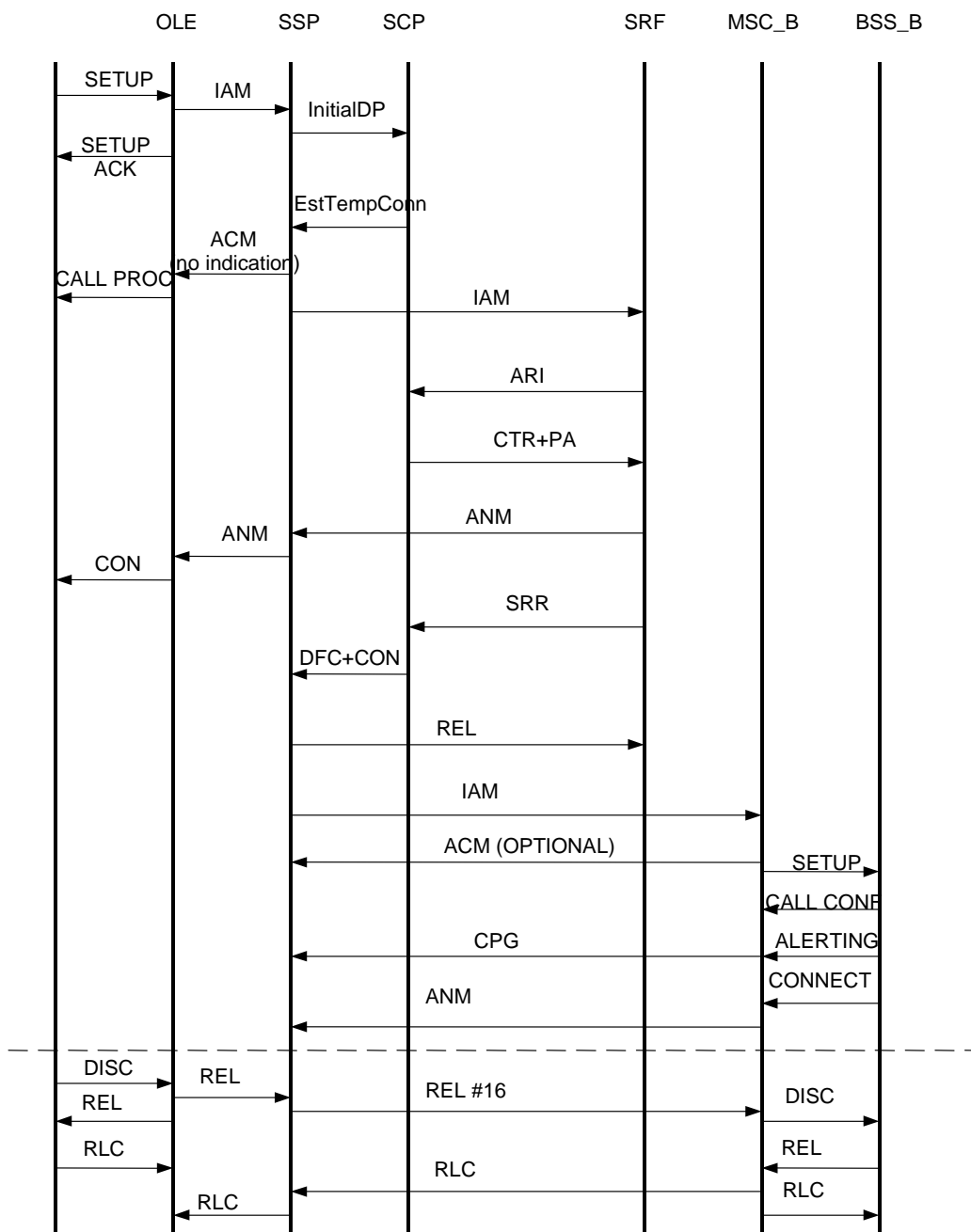


NOTE: The sending of the ACM message is optional.

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

IG__xx I_ 03	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	Other ref.: Q.1601; clauses 10.1.1.1.1.1 and 10.1.5.2.1.1.1
TSS reference:	ISDN to GSM/ Services with user interactive dialogue/Successful	
ISDN selection criteria origin.:	Numb_Trans, IN call with user interactive dialogue (in-band) Assist method; procedure in initiating SSP	
GSM selection criteria term.:	Services with user interactive dialogue	
Test purpose:	User A makes a call to user B. On receipt of the EstablishTemporaryConnection 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 ISUP/INAP Interface parameter Values (note):	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). 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 7. Except the called party number parameter the remaining mandatory parameters of the IAM message are set as defined in Table 7. 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 ISDN/INAP interface parameter Values (note):	Initial Detection point Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP parameter InitialDP_PAR_ID (see annex C). 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 values origin.:	GSM-BC GSM-BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE HLC = HLC_ID	

IG__xx I_ 03	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	Other ref.: Q.1601; clauses 10.1.1.1.1.1 and 10.1.5.2.1.1.1
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	
Comments:		



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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 10.1.1.1.4 (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).

IG__xx I_ 04	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	Other ref.: Q.1601 clause 10.1.5
TSS reference:	ISDN to GSM/ Services with user interactive dialogue /Successful	
ISDN selection criteria origin.:	Numb_Trans, IN call with user interactive dialogue (in-band) Assist method; procedure in assisting SSP	
GSM selection 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 AssistReqInstructions operation is sent from the SSF to the SCF. After the UID the call is released from the SCP.	
PCO / PO ISUP/INAP Interface parameter Values (note):	<p>AssistRequestInstructions operation If an IAM is received in a SSP and the call is recognized as a call which is to be routed to an IP, an AssistReqInstructions operation is sent from the SSF to the SCF. The mapping of parameters is shown in table 8.</p> <p>ConnectToResource operation 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.</p> <p>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.</p> <p>Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.</p>	
PCO / PO ISDN/INAP interface parameter Values (note):	<p>Initial Detection point Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP parameter InitialDP_PAR_ID (see annex C).</p> <p>Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.</p> <p>Receiving of a Release message Verify that the IUT can successfully release the call.</p>	
ISDN parameter values origin.:	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	
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	
Comments:		

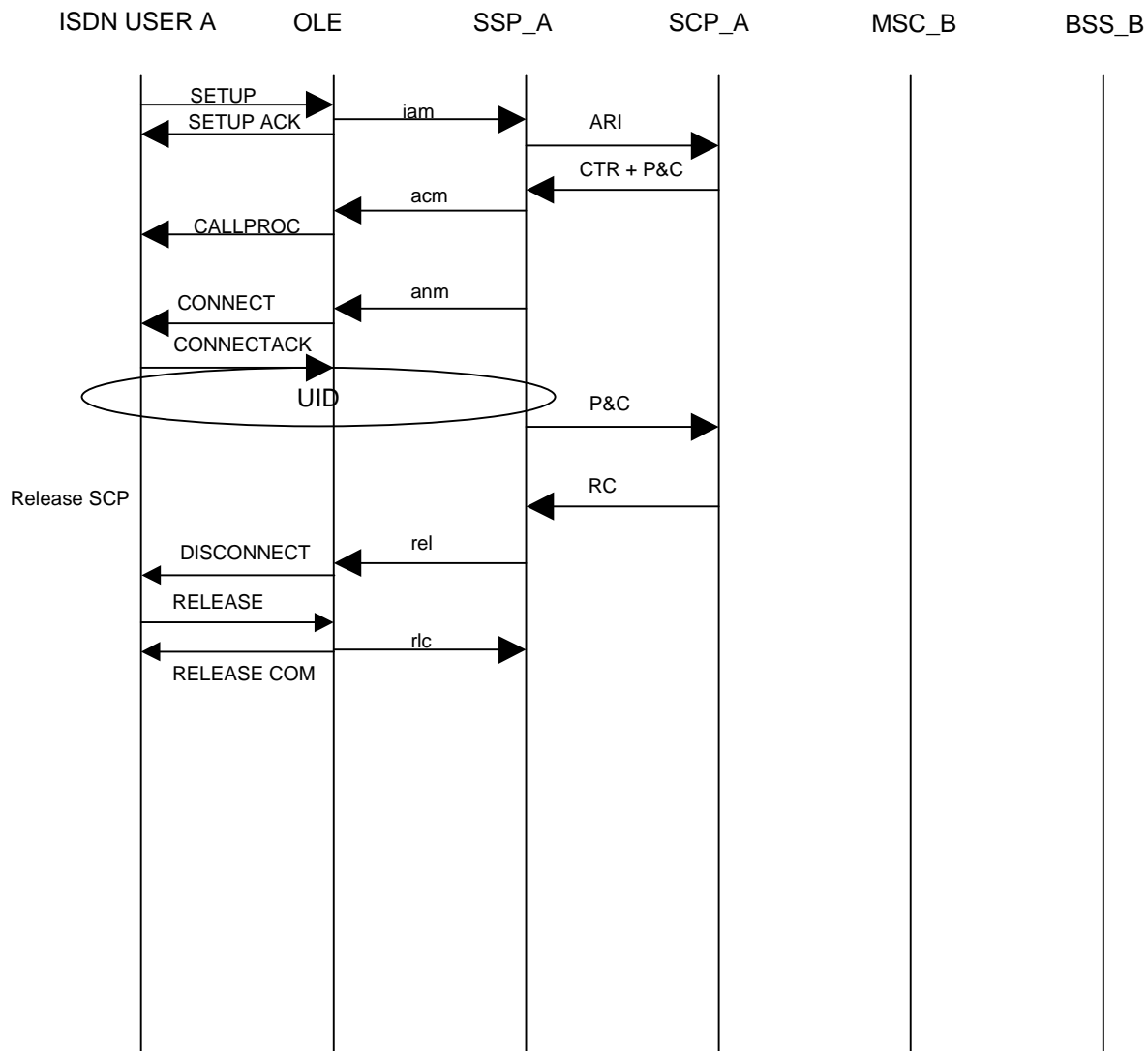


Figure 59: User interactive dialogue service, IN call with user interactive dialogue (in-band) Assist method; procedure in initiating SSP; an AssistReqInstructions operation is sent from the SSF to the SCF

Table 9: Mapping of parameters from IAM to AssistRequestInstruction

ISUP message IAM	INAP operation AssistRequestInstruction
Correlation id	CorrelationID

Values for test purposes IG_xx I_01 to IG_xx 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 →	ACM	CPG "alerting" or "in-band information or an ..."	CPG "progress"	CON	ANM
↓ Messages already sent					
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: 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	Other ref.: Q.1601 clause 10.1.5.1.1.1.1
TSS reference:	ISDN to GSM/ Number translation services/Unsuccessful	
ISDN selection criteria origin.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
Test purpose:	Verify that on receipt of the ConnectToResource operation the 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.	
PCO / PO ISUP/INAP Interface parameter Values (note):	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). 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 Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP parameter InitialDP_PAR_ID (see annex C). Receiving of a Release message Verify that the IUT can successfully release the call.	
ISDN parameter values origin.:	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	
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	
Comments:		

IG__SPIU_01

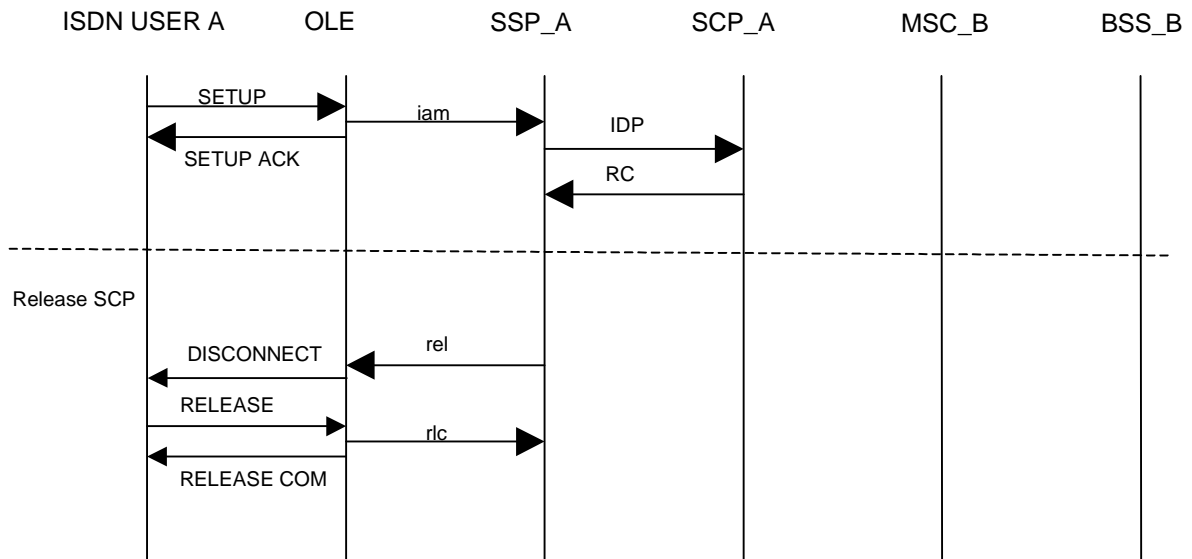
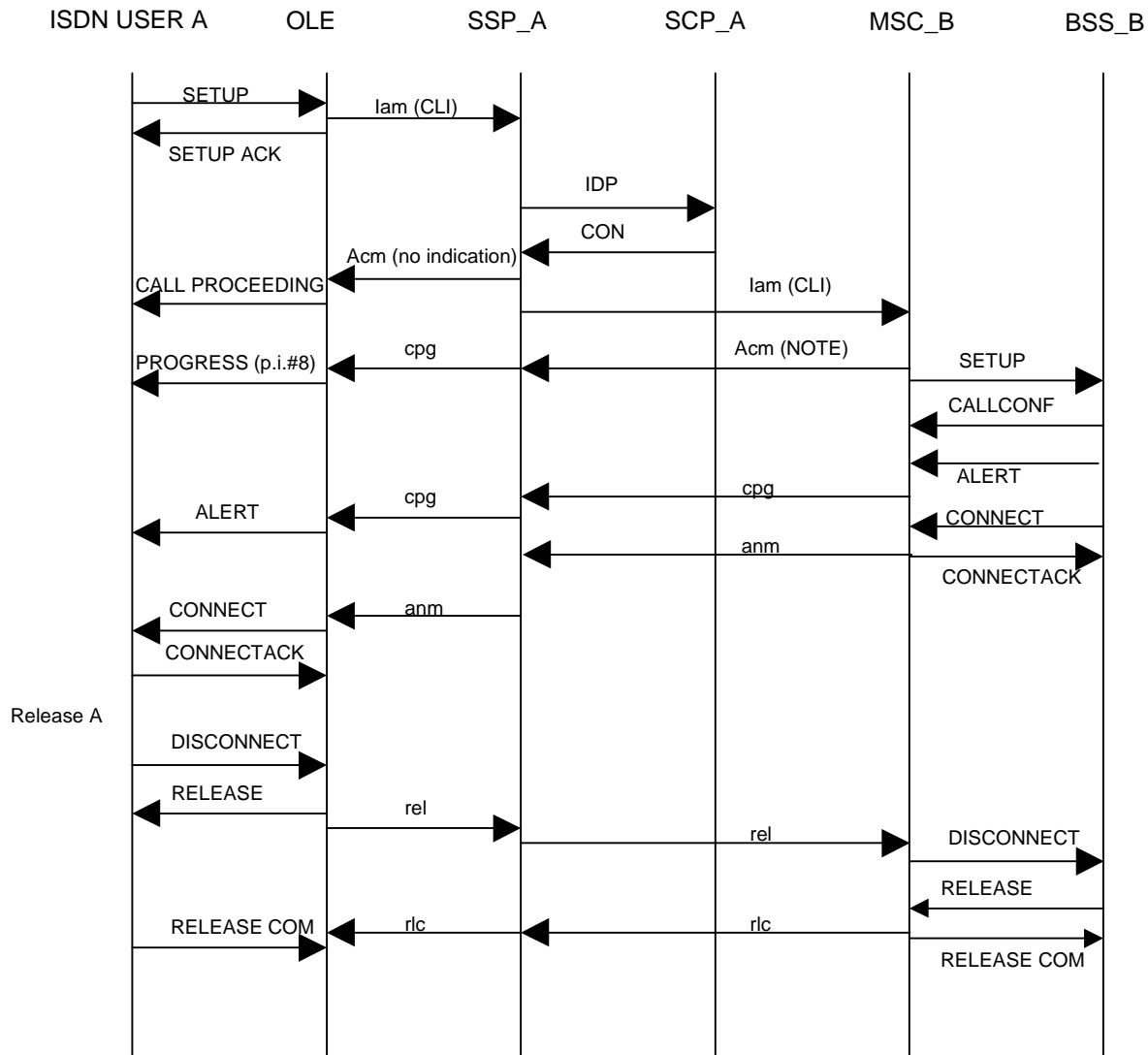


Figure 60: Unsuccessful user interactive dialogue service, call is released using the cause value #65 if other TMR values received in the IAM message than "speech" or "3,1 kHz audio" or "64 kbit/s unrestricted preferred" are received

7.2.4 Supplementary Services

IG____xx NS CLIP 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	Other ref.: Q.1601 clause 12
TSS reference:	ISDN to GSM/ Number translation services/Supplementary Services/CLIP	
ISDN selection criteria origin.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
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 ISUP/INAP Interface parameter Values (note):	Initial Detection point Verify that the IUT can successfully map the IAM IE Calling party number and Generic number to the InitialDP parameters callingPartyNumber and genericNumber. 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 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 origin.:	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	
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	
Comments:		

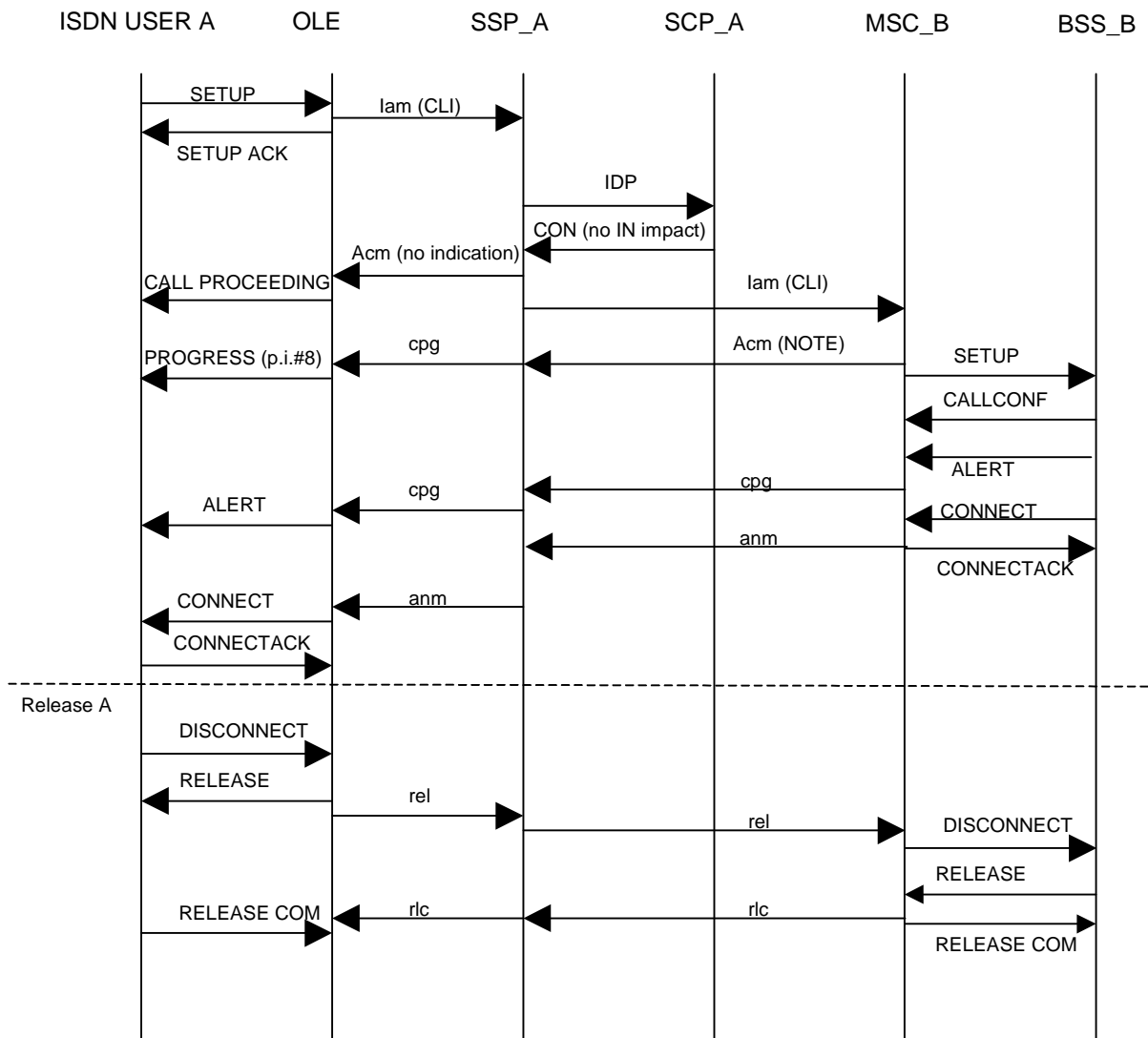


NOTE: The sending of a early ACM is optional.

Figure 61: Number translation services; Supplementary Services; CLIP

IG ____xx NS CLIP 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 129 078 clause A.3	Other ref.: EN 301 931-2 clause 12.137 (IN CS 3) Q.1601 clause 12
TSS reference:	ISDN to GSM/ Number translation services/Supplementary Services/CLIP	
ISDN selection criteria origin.:	Numb_Trans,	
GSM selection criteria term.:	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 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 '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 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 origin.:	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	
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	
Comments:		

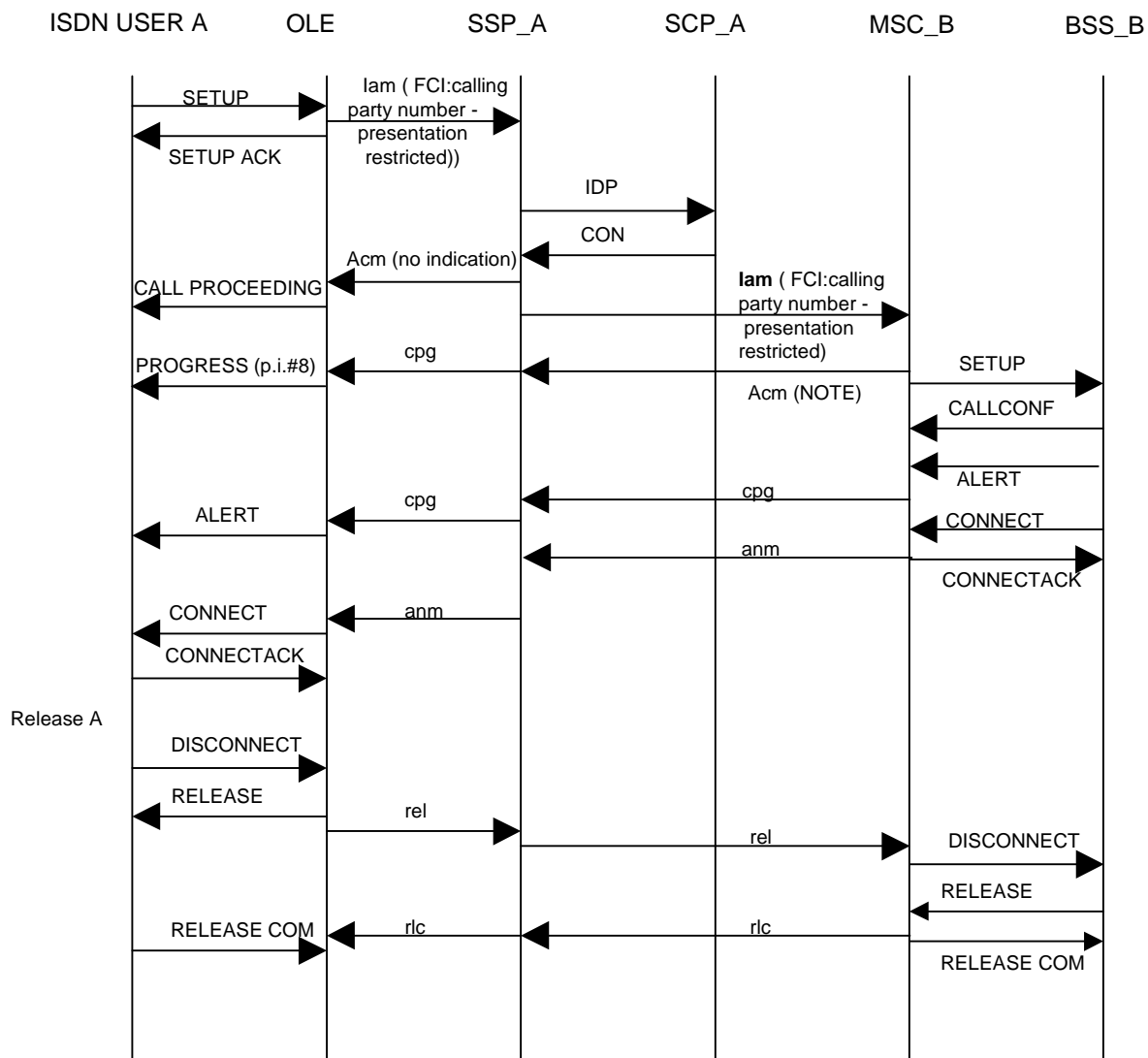
IG__SPNS_CLIP_02



NOTE: The sending of a early ACM is optional.

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

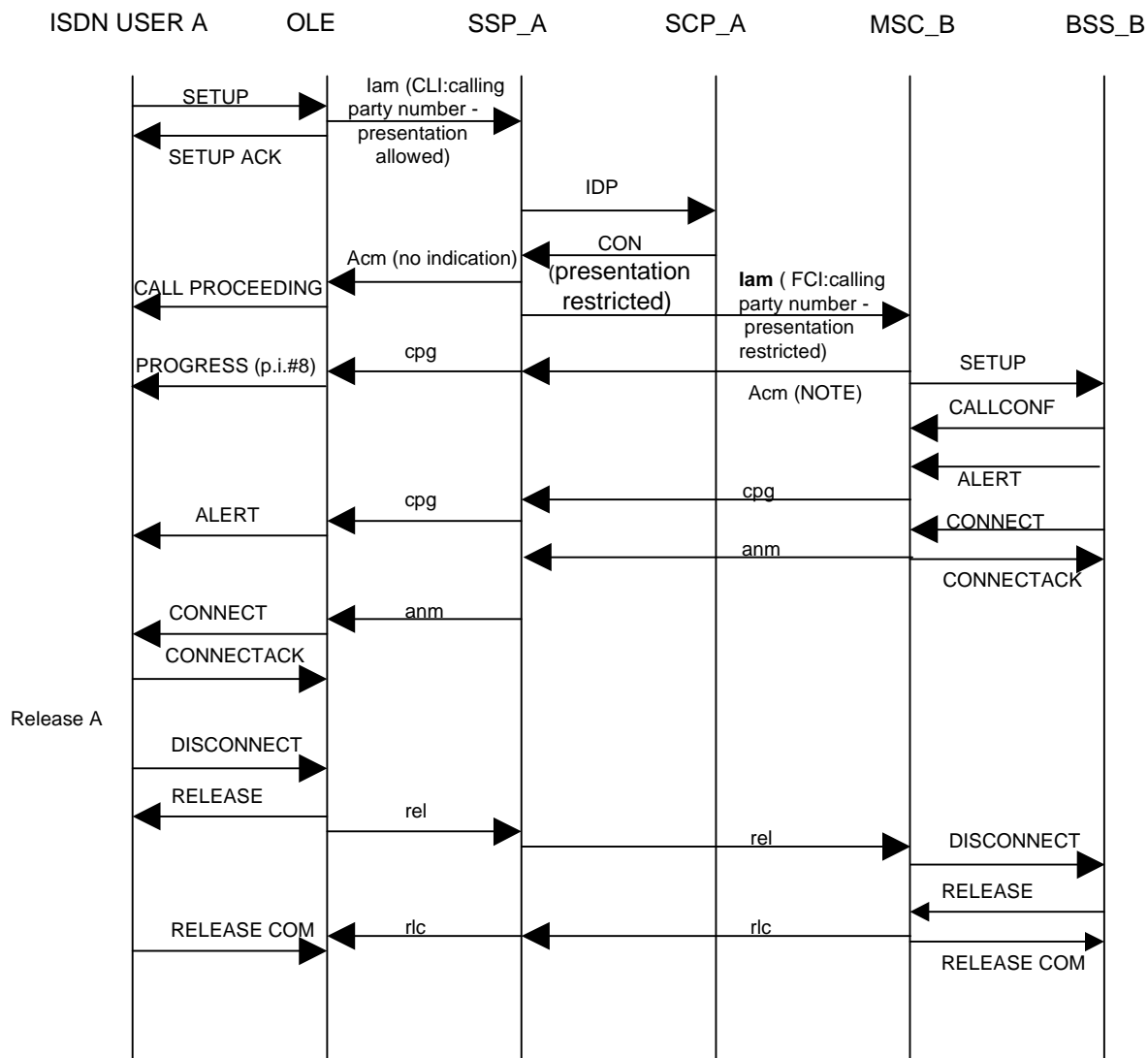
IG ____xx NS CLIR 01	GSM ref. to: EN 300 940 TS 101 285 (GSM 02.78) St 1 TS 101 044 (GSM 03.78) St 2 TS 101 046 (GSM 09.78) St 3	Other ref.: Q.1601 clause 12
TSS reference:	ISDN to GSM/ Number translation services/Supplementary Services/CLIR	
ISDN selection criteria orign.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
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.	
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 orign.:	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	
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	
Comments:		



NOTE: The sending of a early ACM is optional.

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

IG ____xx NS CLIR 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	Other ref.: Q.1601 clause 12
TSS reference:	ISDN to GSM/ Number translation services/Supplementary Services/CLIR	
ISDN selection criteria origin.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
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 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.	
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 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 origin.:	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	
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	
Comments:		

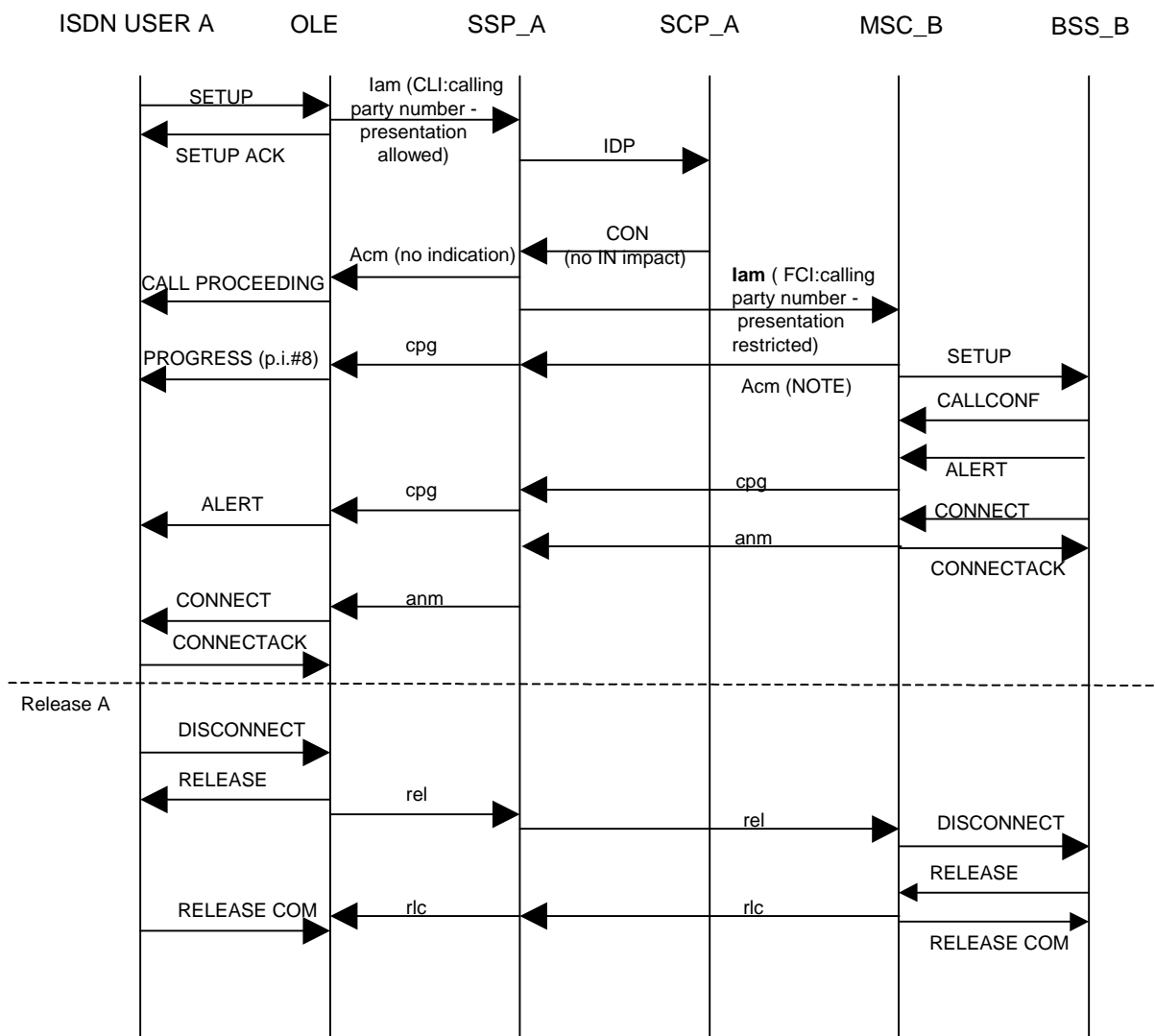


NOTE: The sending of an early ACM is optional.

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: 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	Other ref.: Q.1601 clause 12
TSS reference:	GSM to GSM/ Number translation services/Supplementary Services/CLIP	
TSS reference:	Numb_Trans,	
ISDN selection criteria orign.:	Numb_Trans,	
GSM selection criteria term.:	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.	
Test purpose:	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.	
PCO / PO ISUP/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.	
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 orign.:	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	
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	
Comments:		

IG__SPNS_CLIR_03

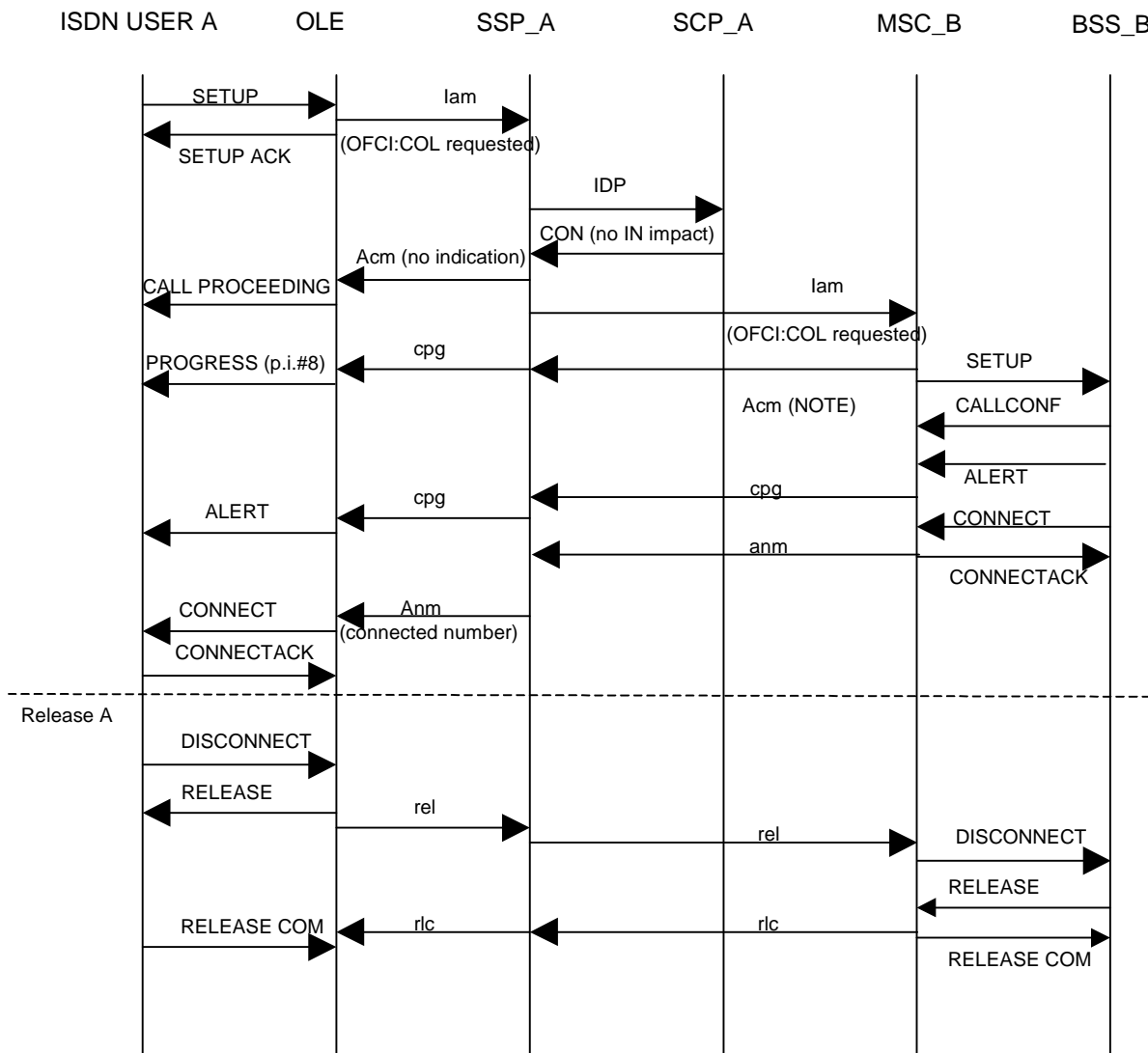


NOTE: The sending of a early ACM is optional.

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: 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	Other ref.: Q.1601 clause 12.5.1
TSS reference:	ISDN to GSM/ Number translation services/Supplementary Services/COLP	
ISDN selection criteria orign.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
Test purpose:	Verify that if 'no IN impact' was received in the serviceInteractionIndicatorsTwo (connected number treatment indicator), then a connected number parameter is passed on unchanged. Verify that the Connected number information element is provided and correctly delivered to the calling (served) user.	
PCO / PO ISUP/INAP Interface parameter Values (note):	Initial Detection point No action Connect Operation / Continue operation 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 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. 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 values orign.:	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	
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	
Comments:		

IG__SPNS_COLP_01

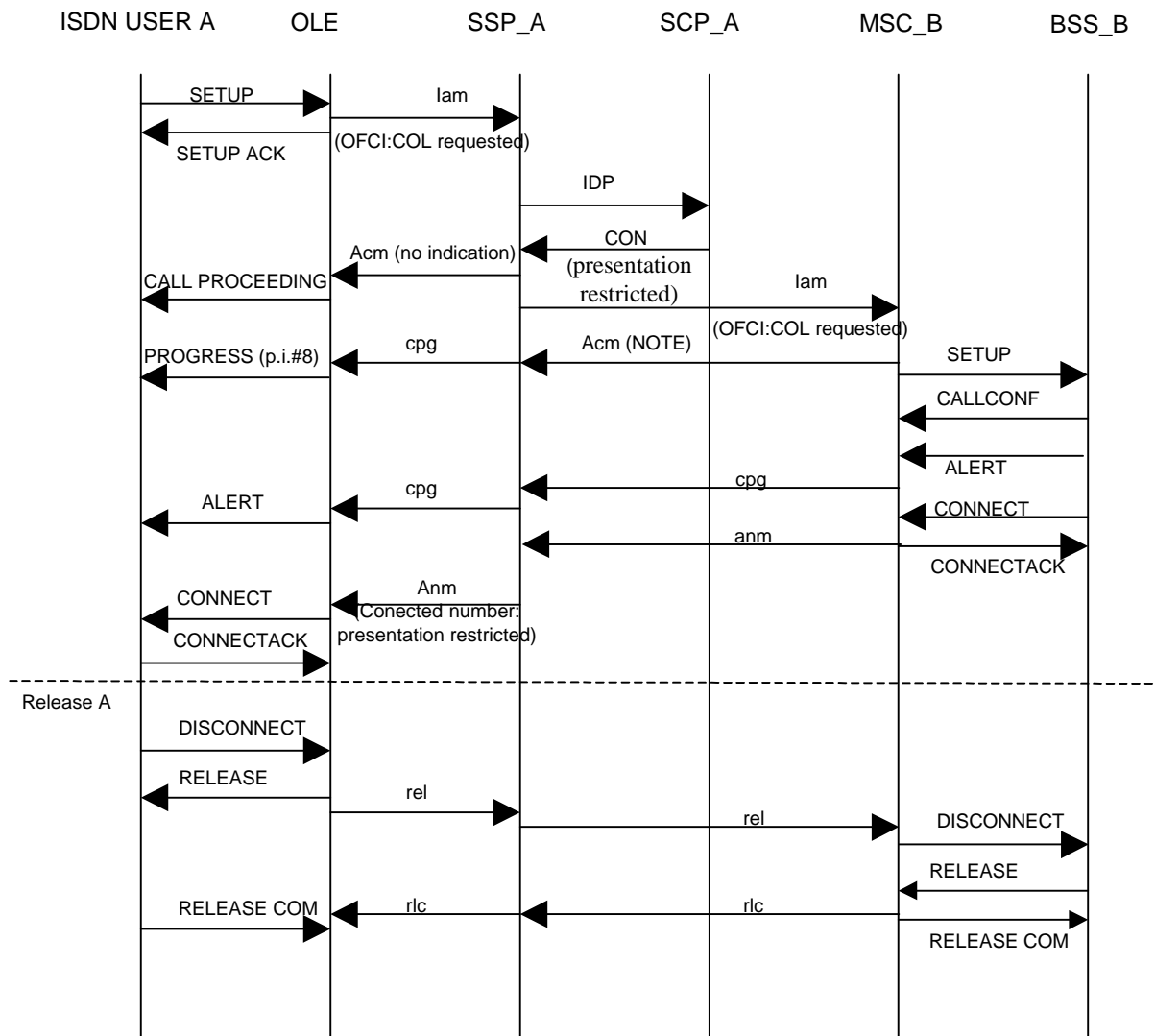


NOTE: The sending of a early ACM is optional.

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

IG____xx NS COLP 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	Other ref.: Q.1601 clause 12.5.1 a)
TSS reference:	ISDN to GSM/ Number translation services/ Supplementary Services/COLP	
ISDN selection criteria origin.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
Test purpose:	Verify that if 'presentation restricted' was received in the 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'. Verify that the Connected number information element is network provided and delivered to the calling (served) user without any digit information.	
PCO / PO ISUP/INAP Interface parameter Values (note):	Initial Detection point No action Connect Operation / Continue operation 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 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 origin.:	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	
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	
Comments:		

IG__SPNS_COLP_02

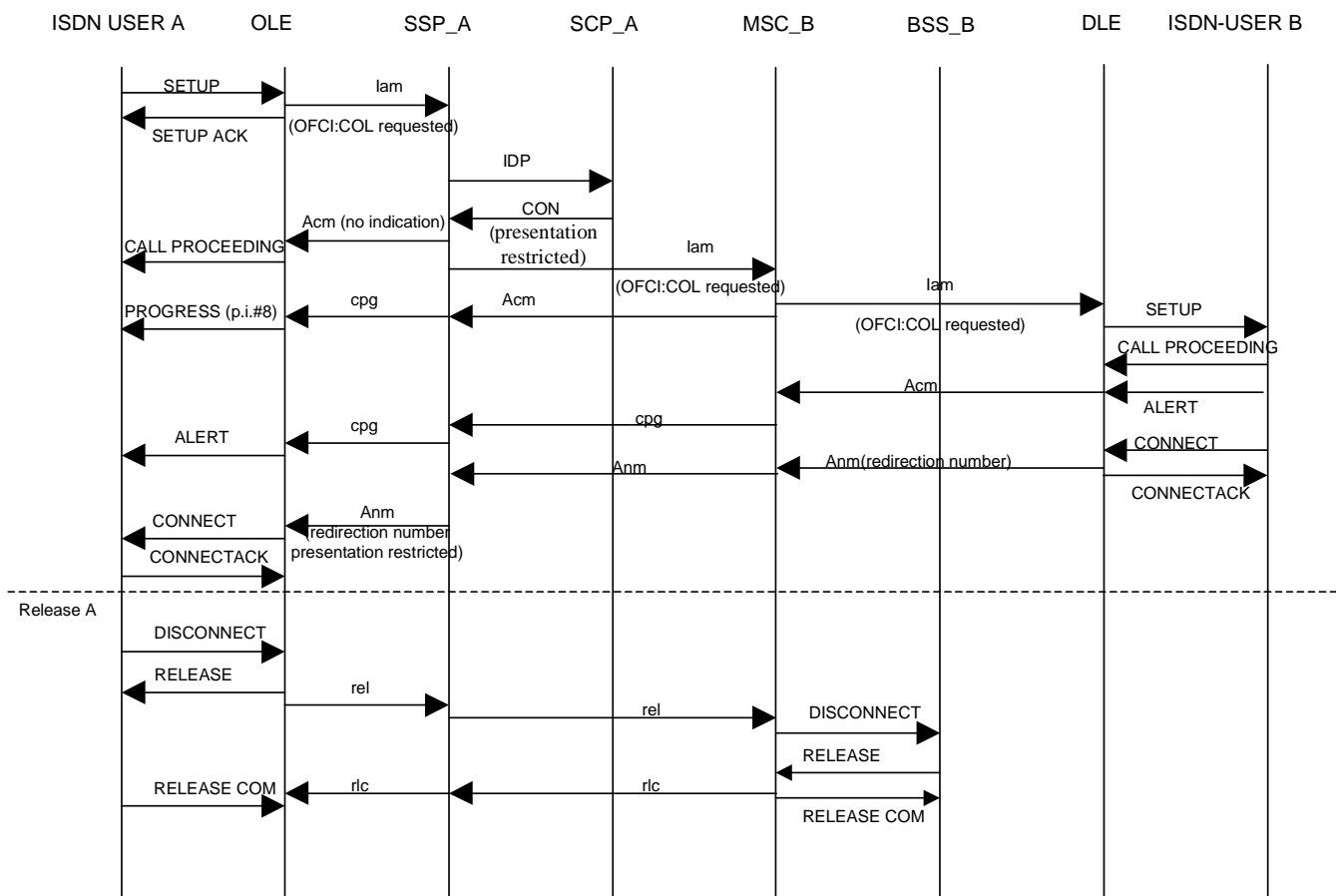


NOTE: The sending of a early ACM is optional.

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

IGI____xx NS COLP 03	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	Other ref.: Q.1601 clause 12.5.1 c)
TSS reference:	ISDN to GSM/ Number translation services/Supplementary Services/COLP	
ISDN selection criteria orign.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
Test purpose:	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'. Verify that the Connected number information element is network provided and delivered to the calling (served) user without any digit information.	
PCO / PO ISUP/INAP Interface parameter Values (note):	Initial Detection point No action Connect Operation / Continue operation 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 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 orign.:	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	
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	
Comments:		

GG__SPNS_COLP_03

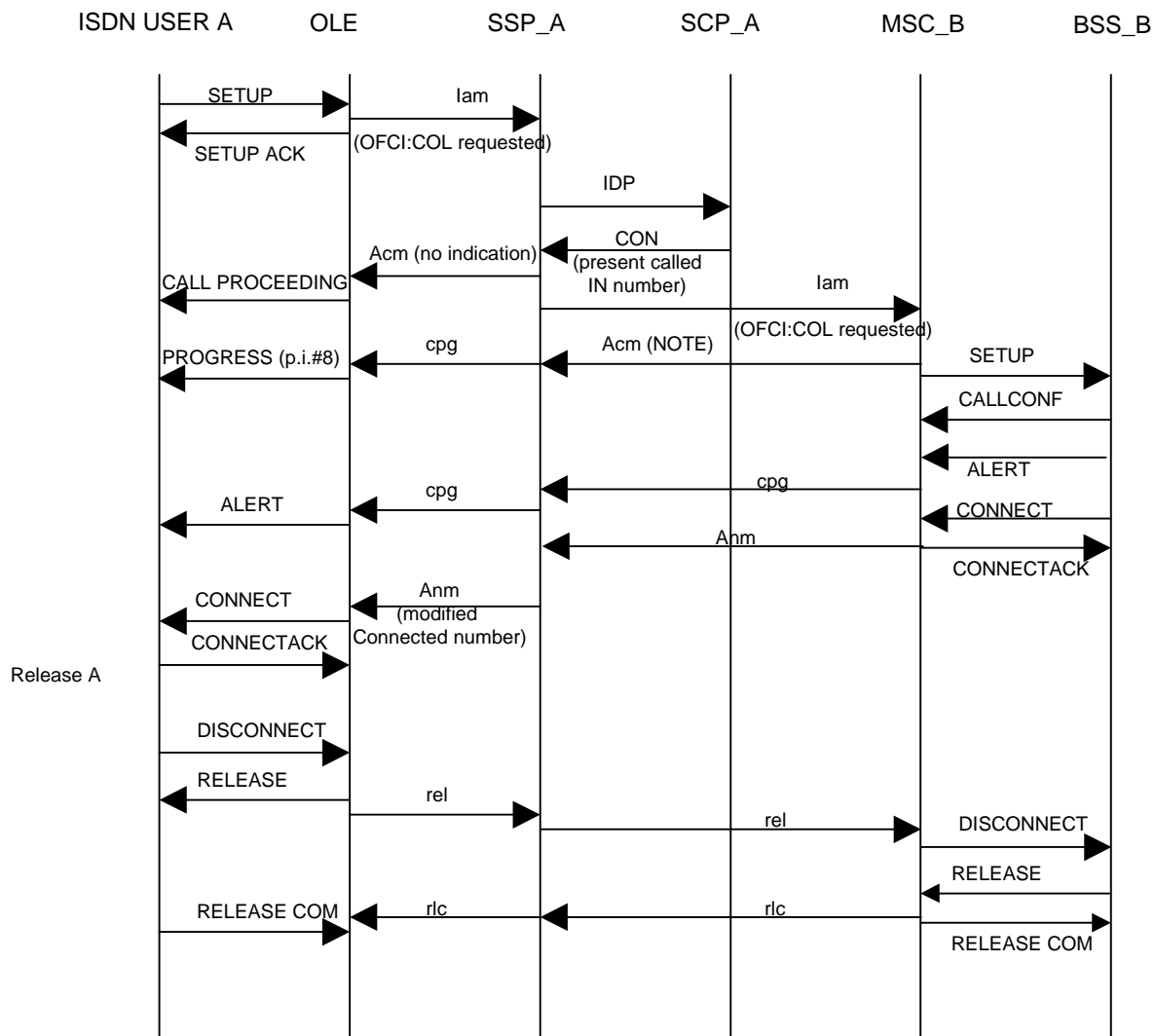


NOTE: The sending of a early ACM is optional.

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

IG__xx NS COLP 04	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	Other ref.: Q.1601 clause 12.5.1
TSS reference:	ISDN to GSM/ Number translation services/Supplementary Services/COLP	
ISDN selection criteria origin.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
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 ISUP/INAP Interface parameter Values (note):	<p>Initial Detection point No action</p> <p>Connect Operation / Continue operation 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.</p> <p>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.</p> <p>Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.</p>	
PCO / PO ISDN/INAP interface parameter Values (note):	<p>Initial Detection point No action</p> <p>Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.</p> <p>Receiving of a Release message Verify that the IUT can successfully release the call.</p>	
ISDN parameter values origin.:	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	
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	
Comments:		

IG__SPNS_COLP_04

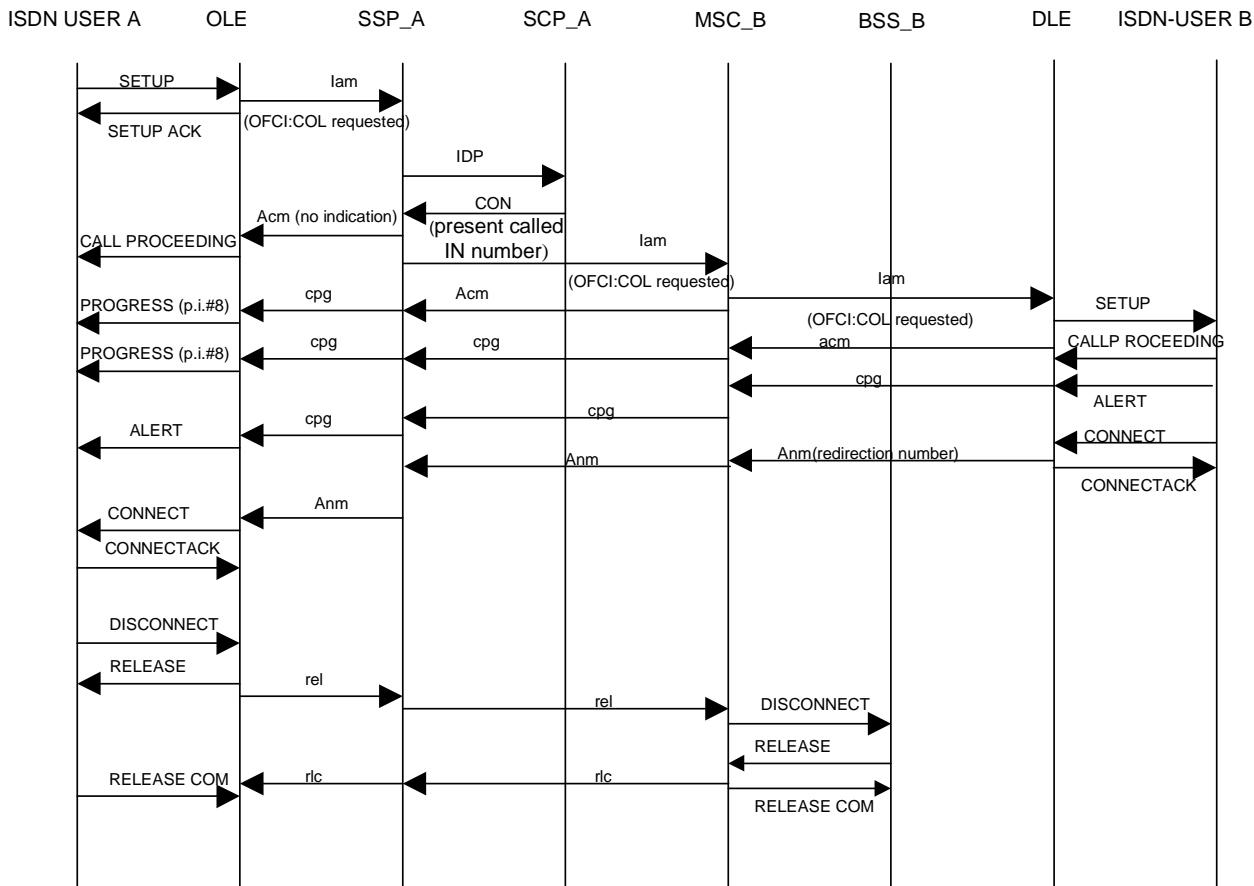


NOTE: The sending of a early ACM is optional.

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

IGI____xx NS COLP 05	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	Other ref.: Q.1601 clause 12.5.1
TSS reference:	ISDN to GSM/ Number translation services/Supplementary Services/CFxx	
ISDN selection criteria origin.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
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 ISUP/INAP Interface parameter Values (note):	Initial Detection point No action Connect Operation / Continue operation 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 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 origin.:	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	
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	
Comments:		

IGI__SPNS_COLP_05

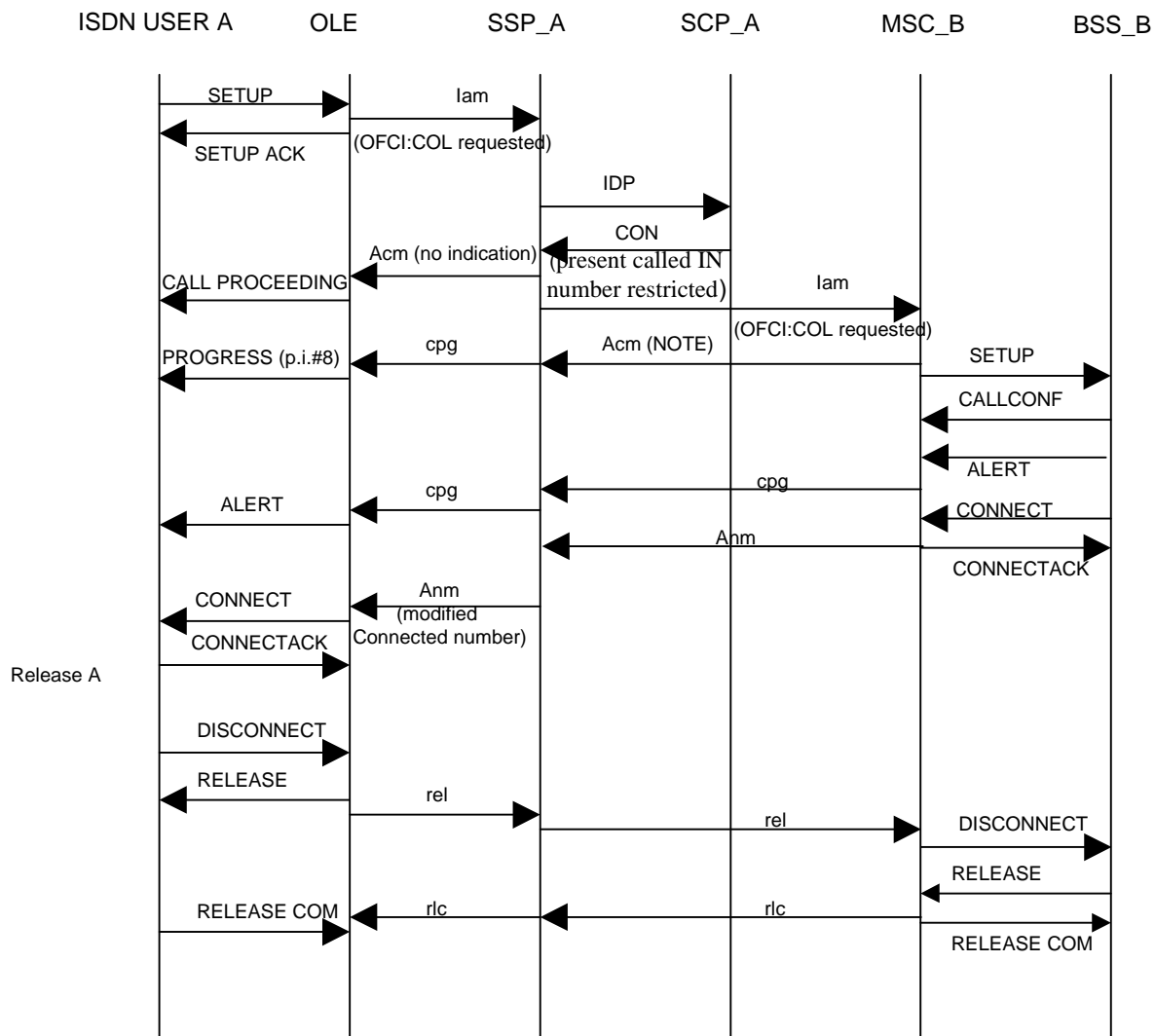


NOTE: The sending of a early ACM is optional.

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

IG__xx NS COLP 06	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	Other ref.: Q.1601 clause 12.5.1
TSS reference:	ISDN to GSM/ Number translation services/Supplementary Services/COLP	
ISDN selection criteria origin.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
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 possible subsequent number parameters, until the ACM message was sent.	
PCO / PO ISUP/INAP Interface parameter Values (note):	Initial Detection point No action Connect Operation / Continue operation 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 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 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 origin.:	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	
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	
Comments:		

IG__SPNS_COLP_06

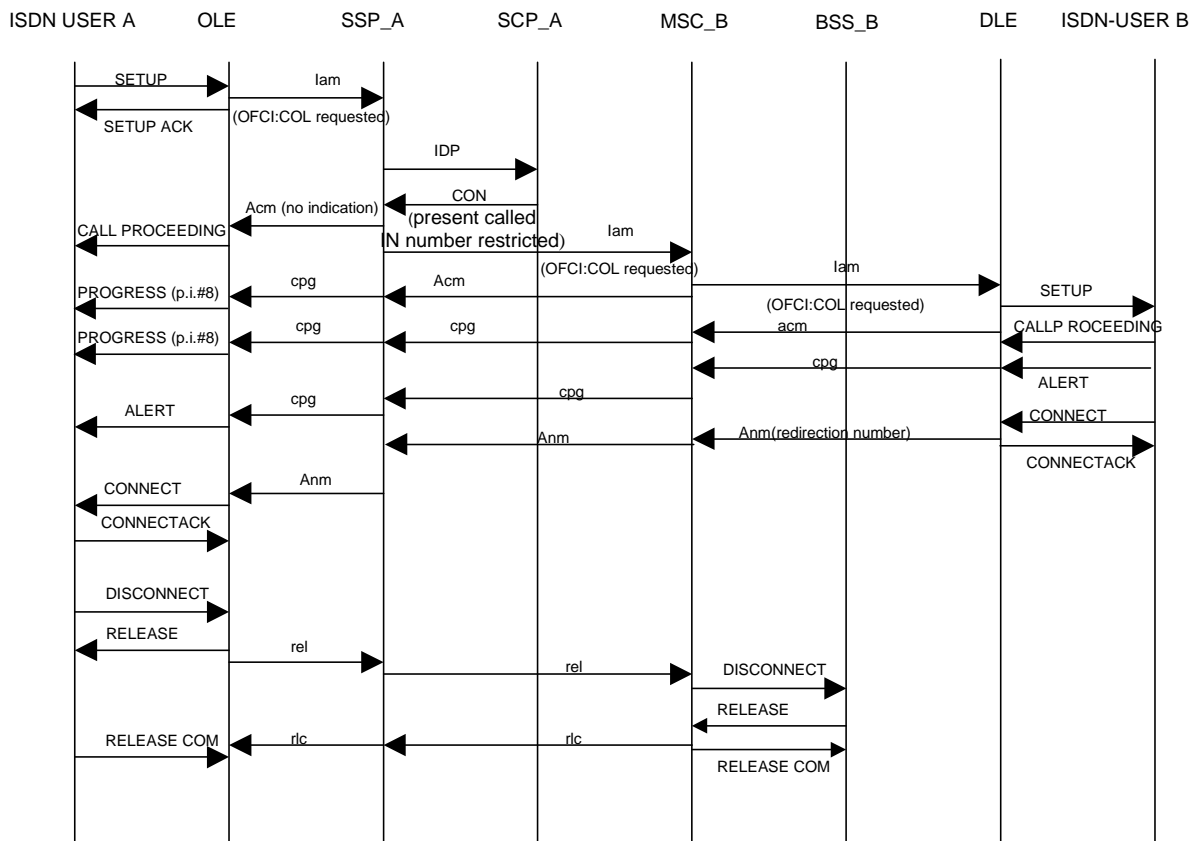


NOTE: The sending of a early ACM is optional.

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

IGI____xx NS COLP 7	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	Other ref.: Q.1601 clause 12.5.1
TSS reference:	ISDN to GSM/ Number translation services/Supplementary Services/COLP	
ISDN selection criteria origin.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
Test 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 ISUP/INAP Interface parameter Values (note):	<p>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).</p> <p>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.</p> <p>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.</p> <p>Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.</p>	
PCO / PO ISDN/INAP interface parameter Values (note):	<p>Initial Detection point No action</p> <p>Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.</p> <p>Receiving of a Release message Verify that the IUT can successfully release the call.</p>	
ISDN parameter values origin.:	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	
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	
Comments:		

IGI__SPNS_COLP_07



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

IGG ___xx NS CFxx 01_XX	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	Other ref.: Q.1601 clause 10.1.1.1.4
TSS reference:	ISDN to GSM/Number translation services/Supplementary Services/CFxx	
ISDN selection criteria origin.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
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 "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 ISUP/INAP Interface parameter Values (note):	Initial Detection point No action 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. 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 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 origin.:	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	
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	
Comments:		

IGG_SPNS_CFx_x_01_CFU

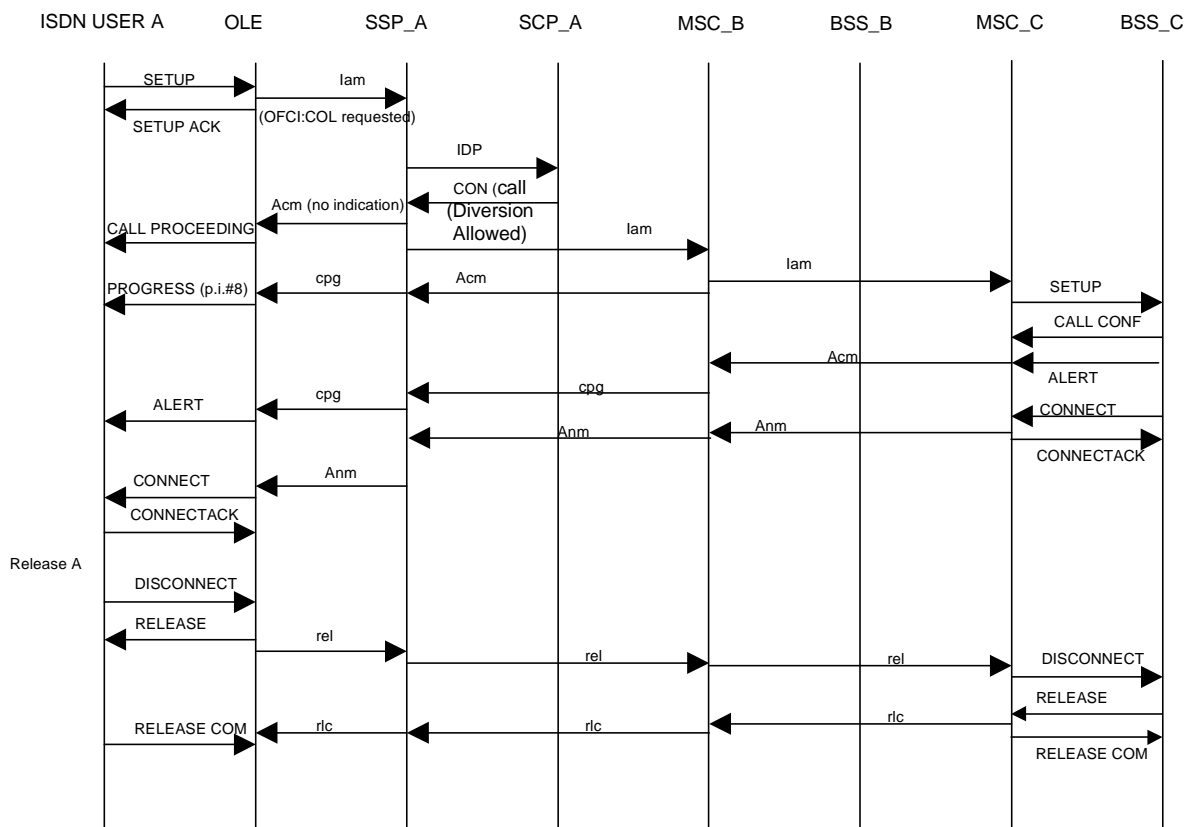


Figure 73: Number translation services; Supplementary Service CFU with the "callDiversionAllowed" parameter received in the INAP serviceInteractionIndicatorsTwo

IGG_SPNS_CFxx_01_CFB

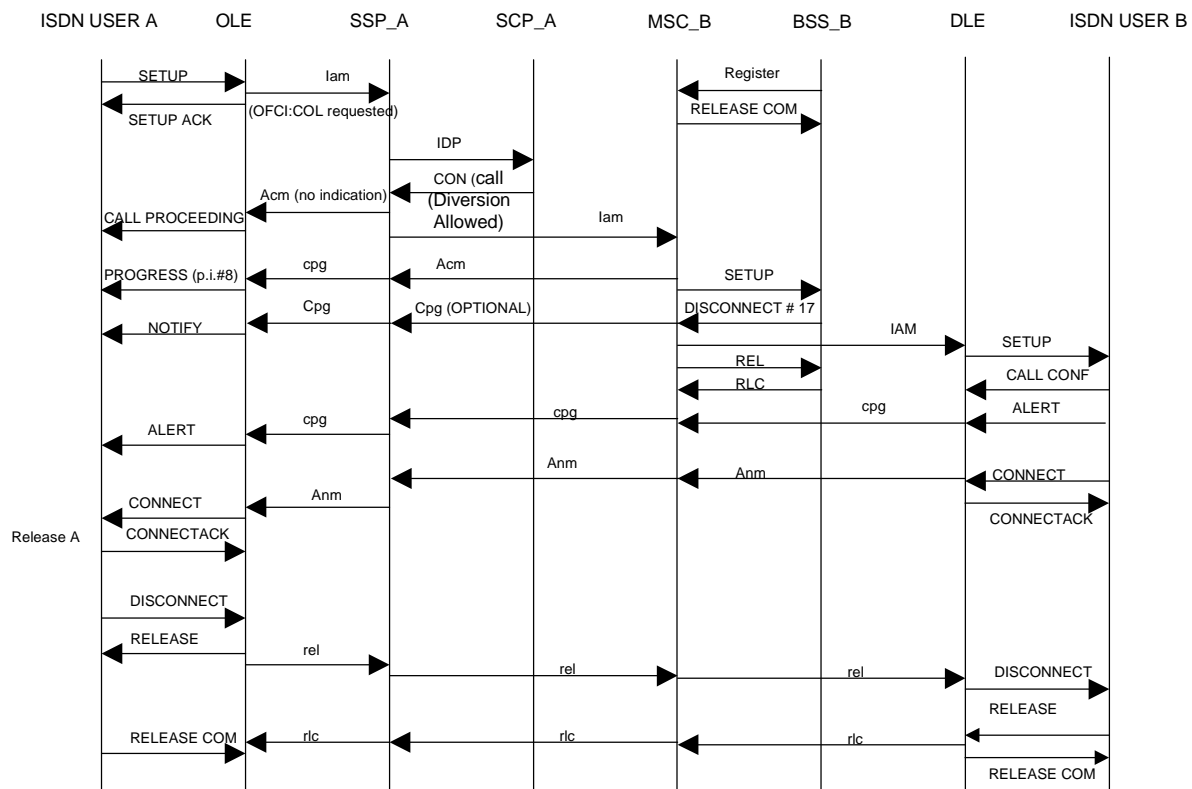


Figure 74: Number translation services; Supplementary Service CFB with the "callDiversionAllowed" parameter received in the INAP serviceInteractionIndicatorsTwo

IG ___xx NS CFxx 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	Other ref.: Q.1601 clause 12.1
TSS reference:	ISDN to GSM/ Number translation services/Supplementary Services/CFxx	
ISDN selection criteria origin.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
Test purpose:	User A attempts a call to number B. 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; d) redirection number restriction parameter.	
PCO / PO ISUP/INAP Interface parameter Values (note):	Initial Detection point No action Connect Operation 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 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 origin.:	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	
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	
Comments:		

IGI_SPNS_CFxx_02_CFNRY

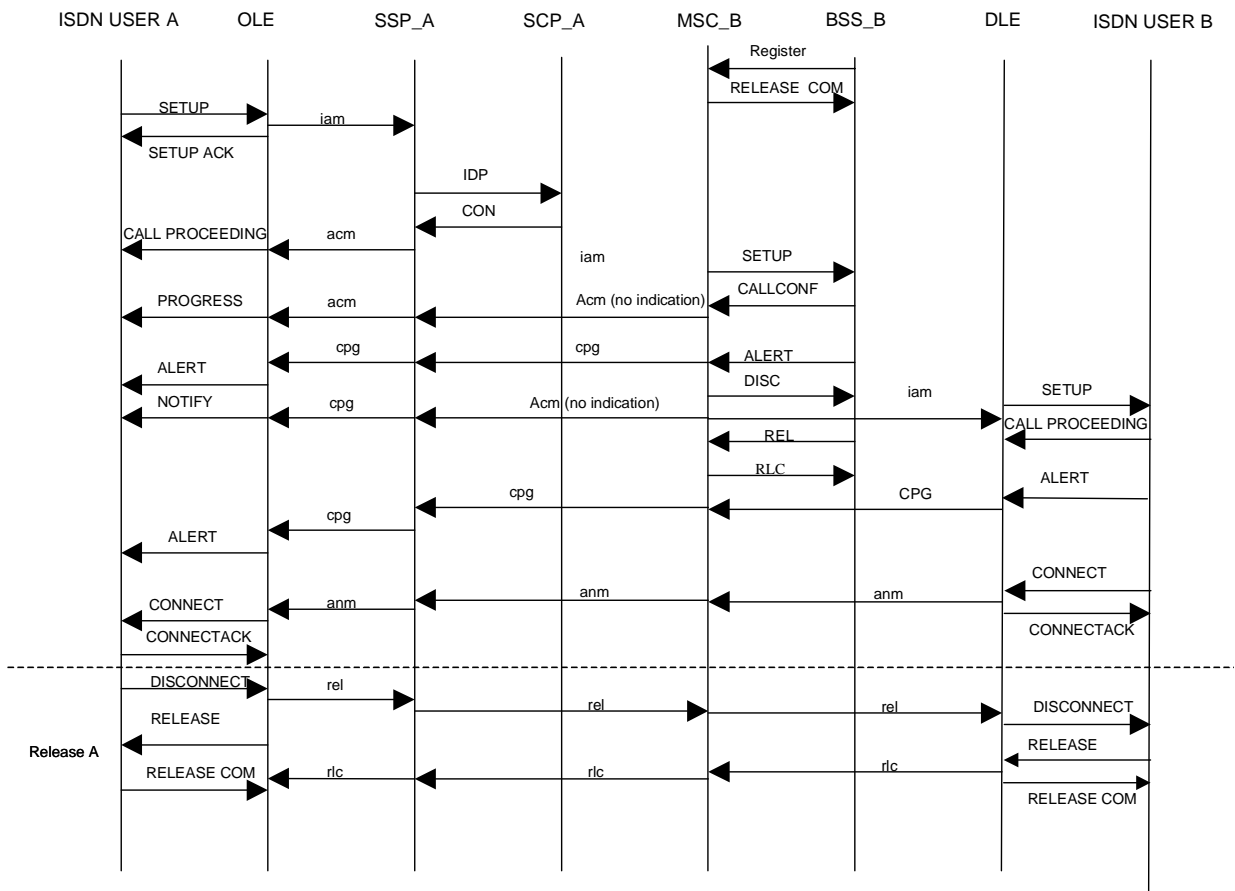


Figure 75: Number translation services; Supplementary Service CFNRy

IGG_SPNS_CFxx_02 CFNRC

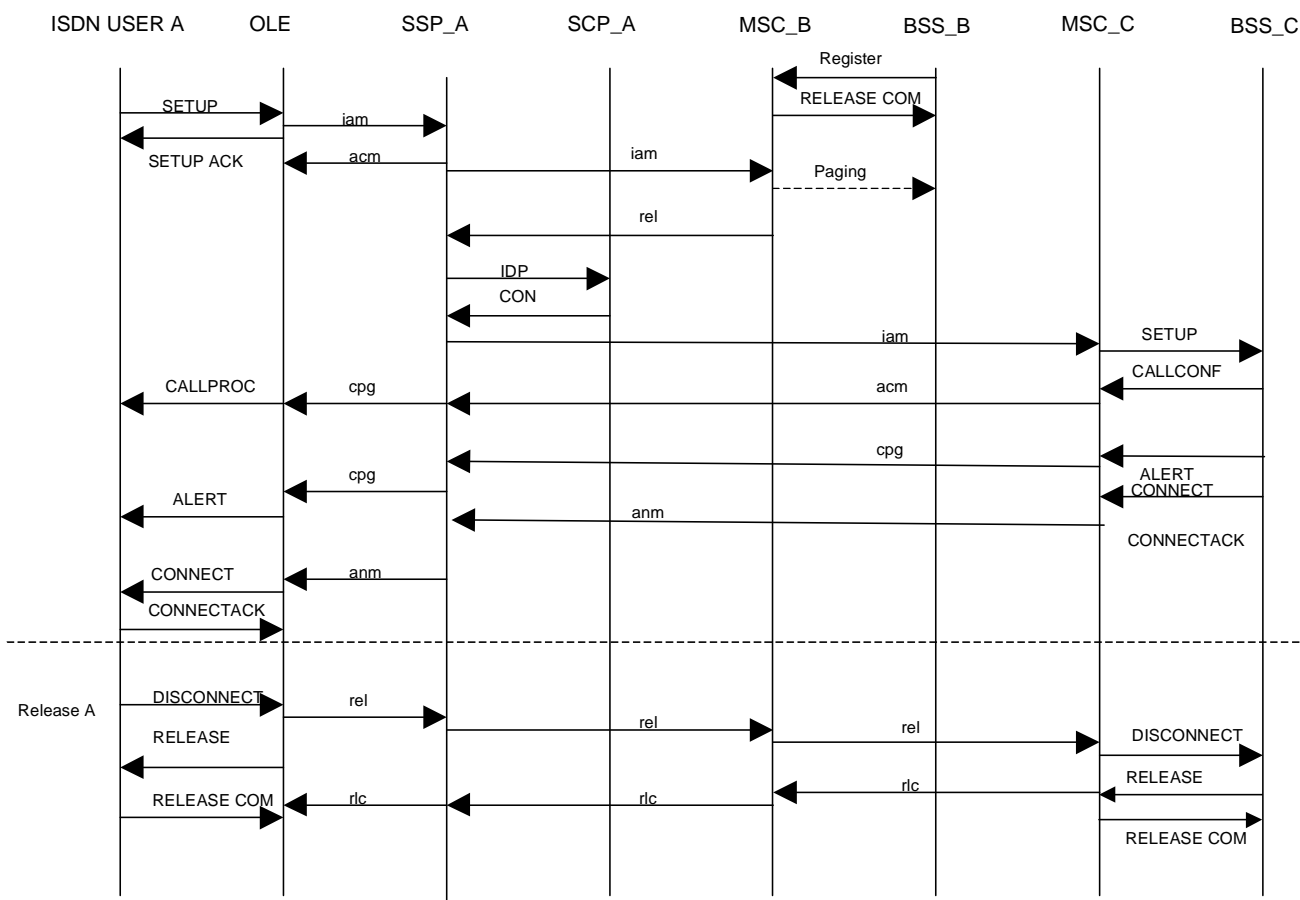


Figure 76: Number translation services; Supplementary Service CFNRC if "suppress information" was received in the INAP serviceInteractionIndicatorsTwo

Interface parameter Values for test purpose IG_xx NSCF 01 and IG_xx NSCF 02	
Variable	Parameter CFxx
VA_01	CFU
VA_02	CFB
VA_03	CFNRC
VA_04	CFNRY

IG ___xx NS CFU 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	Other ref.: Q.1601 clauses 10.1.1.1.4 and 12.1.2.1
TSS reference:	ISDN to GSM/Number translation services/Supplementary Services/CF	
ISDN selection criteria origin.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
Test purpose:	User A attempts a call to number B. The called user B has activated CFU. Call forwarding unconditional activated by the 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 ISUP/INAP Interface parameter Values (note):	Initial Detection point No action 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. 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 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 origin.:	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	
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	
Comments:		

IGG_SPNS_CFU_01

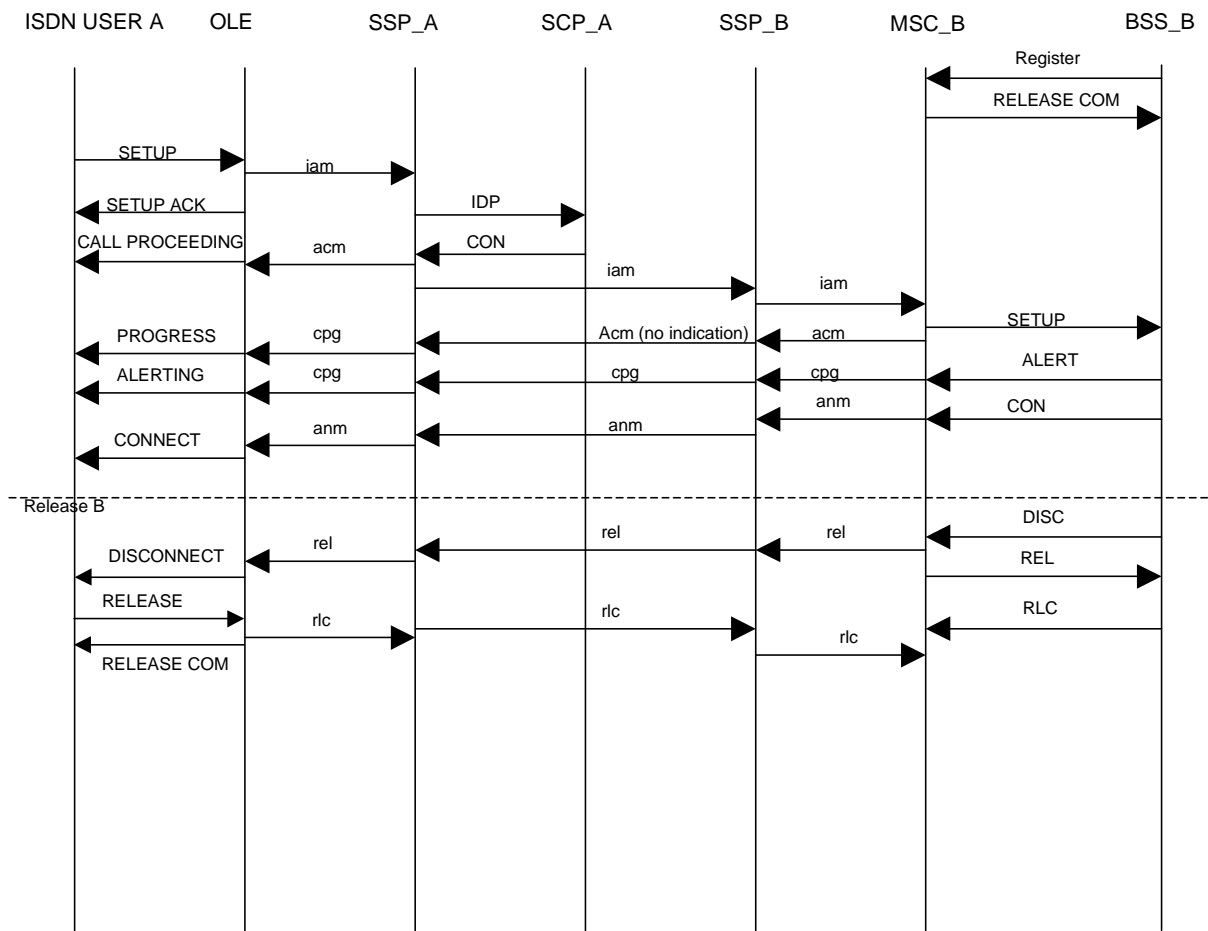


Figure 77: Number translation services; Supplementary Service CFU if "call diversion not allowed" was received in the call diversion treatment indicators

IG__xx NS CFB 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	Other ref.: Q.1601 clauses 10.1.1.1.4 and 12.1.2.1
TSS reference:	ISDN to GSM/Number translation services/Supplementary Services/CF	
ISDN selection criteria origin.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
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 ISUP/INAP Interface parameter Values (note):	Initial Detection point No action 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. 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 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 origin.:	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	
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	
Comments:		

IG__xx NS CFNRy 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	Other ref.: Q.1601 clauses 10.1.1.1.4 and 12.1.2.1
TSS reference:	ISDN to GSM/Number translation services/Supplementary Services/CF	
ISDN selection criteria origin.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
Test purpose:	User A attempts a call to user B. The called user B Number has activated CFNRy. Call forwarding on reply activated by the 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 ISUP/INAP Interface parameter Values (note):	Initial Detection point No action 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. 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 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 origin.:	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	
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	
Comments:		

IG__xx NS CCBS 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	Other ref.: Q.1601 clause 12
TSS reference:	ISDN to GSM/Number translation services/Supplementary Services/CCBS	
ISDN selection criteria origin.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
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 ISUP/INAP Interface parameter Values (note):	Initial Detection point No action 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. 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 ISDN/INAP interface parameter Values (note):	Initial Detection point No action Sending of backward messages No action Receiving of a Release message No action	
ISDN parameter values origin.:	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	
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	
Comments:		

IG__xx NS CCBS 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	Other ref.: Q.1601 clause 12
TSS reference:	ISDN to GSM/ Number translation services/Supplementary Services/CCBS	
ISDN selection criteria origin.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
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 ISUP/INAP Interface parameter Values (note):	Initial Detection point No action 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. 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 ISDN/INAP interface parameter Values (note):	Initial Detection point No action Sending of backward messages No action Receiving of a Release message No action	
ISDN parameter values origin.:	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	
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	
Comments:		

IG__xx NS MCID 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	Other ref.: Q.1601 clause 12.7
TSS reference:	ISDN to GSM/ Number translation services/Supplementary Services/MCID	
ISDN selection criteria origin.:	Numb_Trans,	
GSM selection criteria term.:	Numb_Trans,	
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 party identification parameter, if available, into the IRS message.	
PCO / PO ISUP/INAP Interface parameter Values (note):	Initial Detection point 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 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 ISDN/INAP interface parameter Values (note):	Initial Detection point No action Sending of backward messages No action Receiving of a Release message No action	
ISDN parameter values origin.:	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	
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	
Comments:		

7.3 Support of IN services - Fixed Networks - Fixed Networks

7.3.1 IN configurations

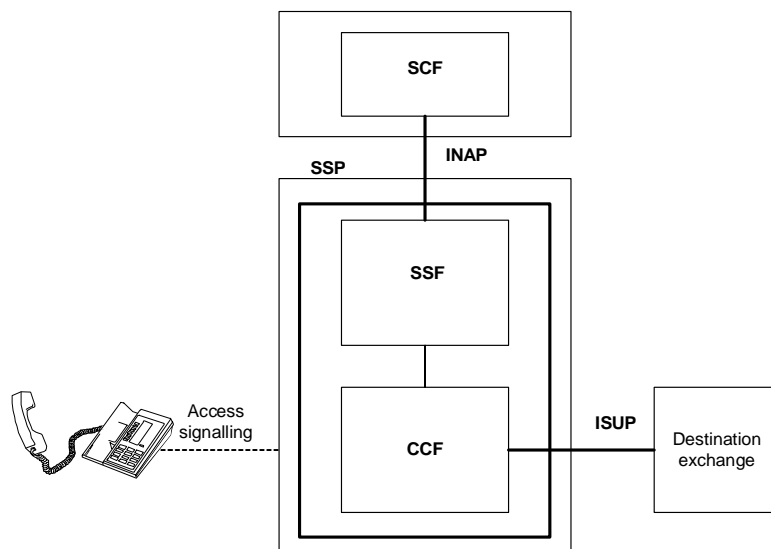


Figure 78: Outgoing case; Signalling configuration for IN call without SRF support

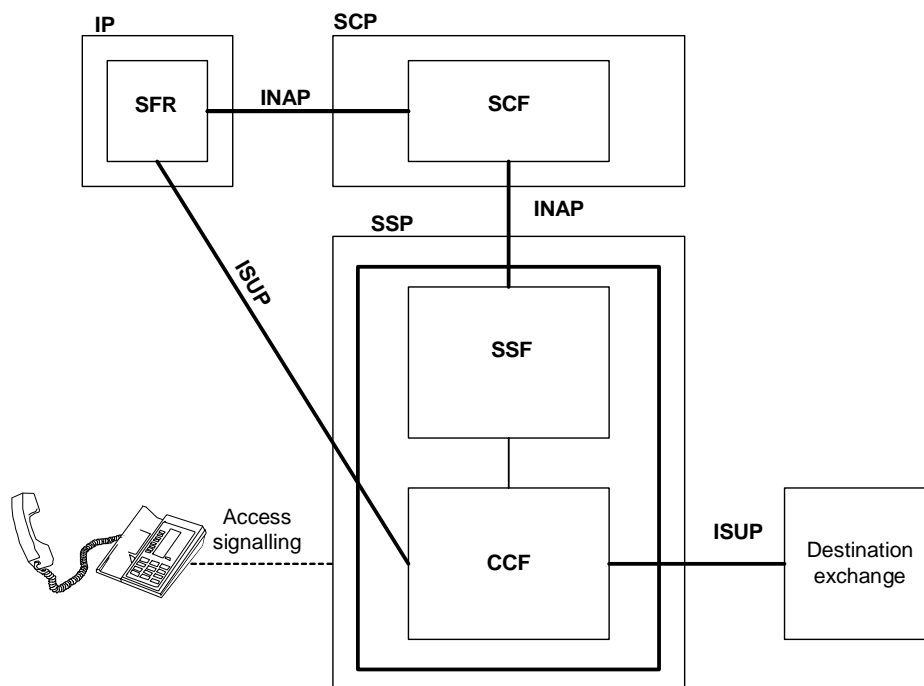


Figure 79: Outgoing case - External IP connected via ISUP; direct TCAP between SRF and SCF ("Assist" method)

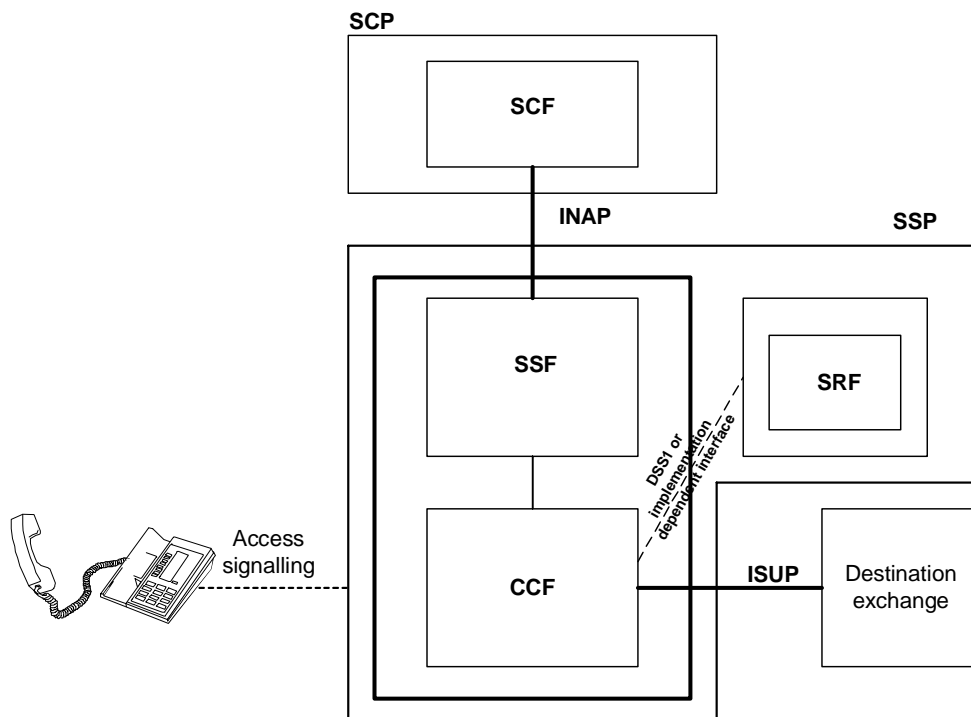


Figure 80: Outgoing case (Connection to integrated or external IP with SSP relay of IP operations)

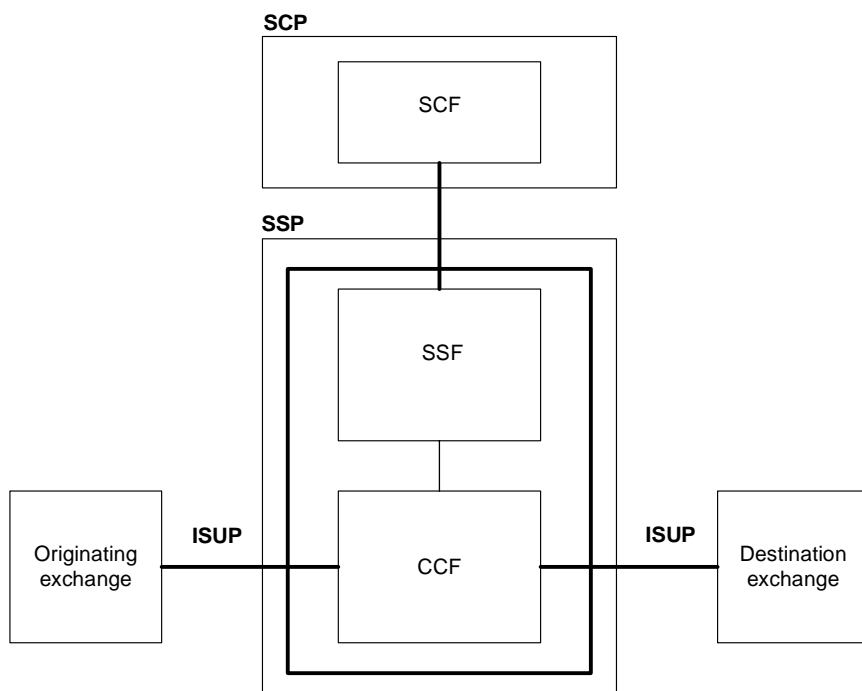
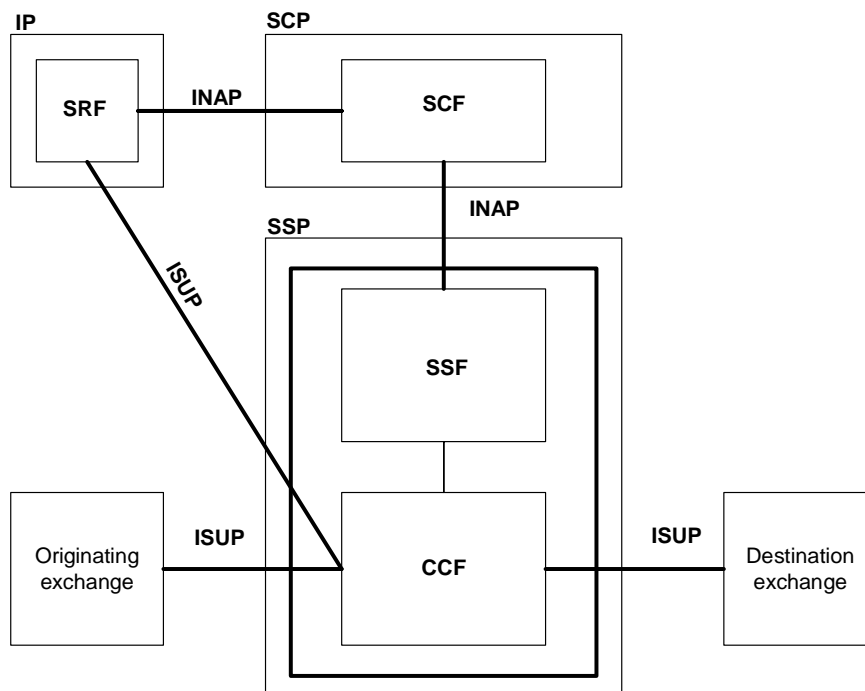


Figure 81: Terminating SSP - Signalling configuration for IN call without SRF support



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)]

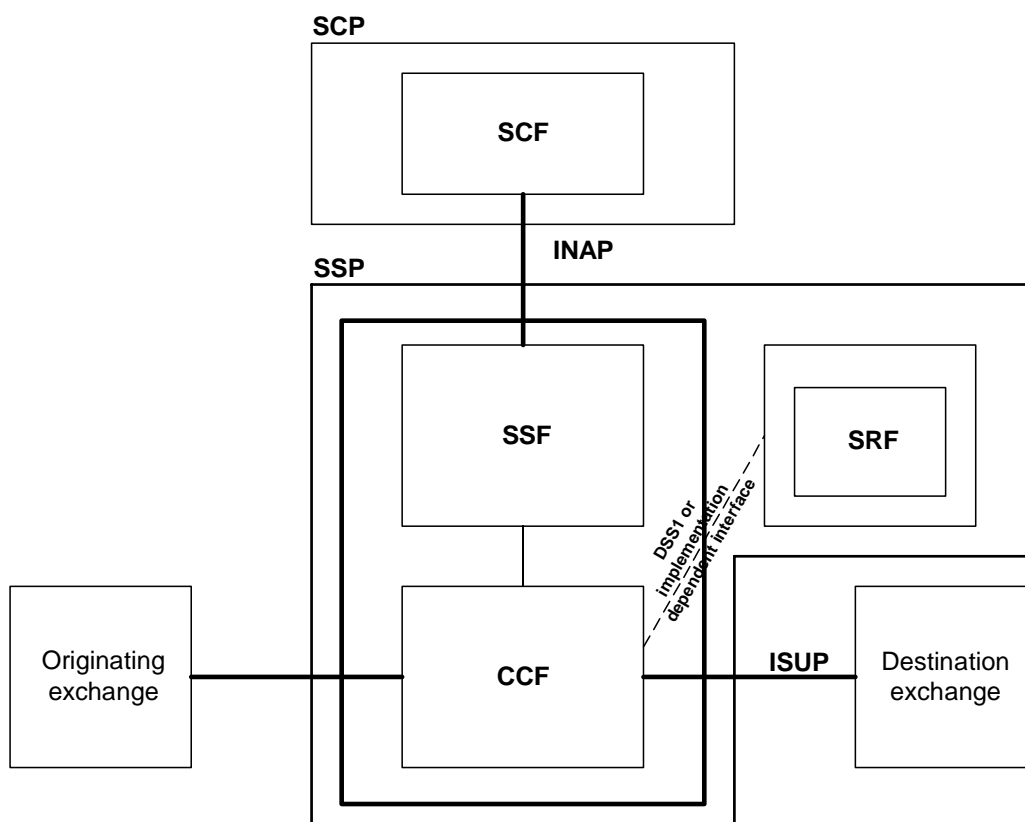


Figure 83: Terminating case (Connection to integrated or external IP with SSP relay of IP operations)

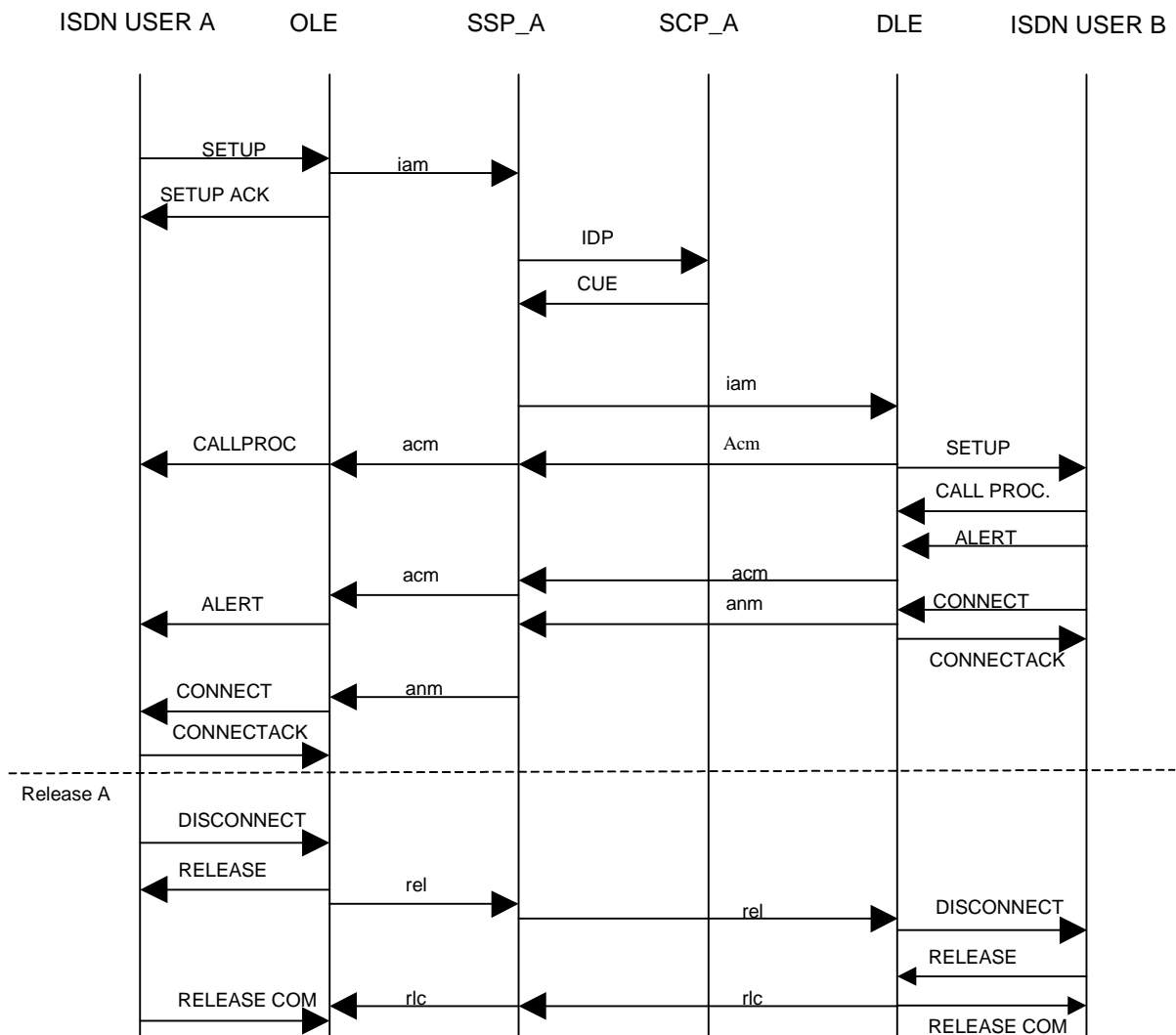
7.3.2 Test purposes for ISDN to ISDN, Basic call

7.3.2.1 Successful

Successful

II__xx N_ 01	Other ref.: Q.1601 EN 301 931-2 clause 14.3
TSS reference:	ISDN to ISDN/Number translation services/Successful
ISDN selection criteria:	Numb_Trans
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 ISUP/INAP Interface parameter Values (note):	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). 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 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 Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP parameter InitialDP_PAR_ID (see annex C). 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:	

II__SPN_01

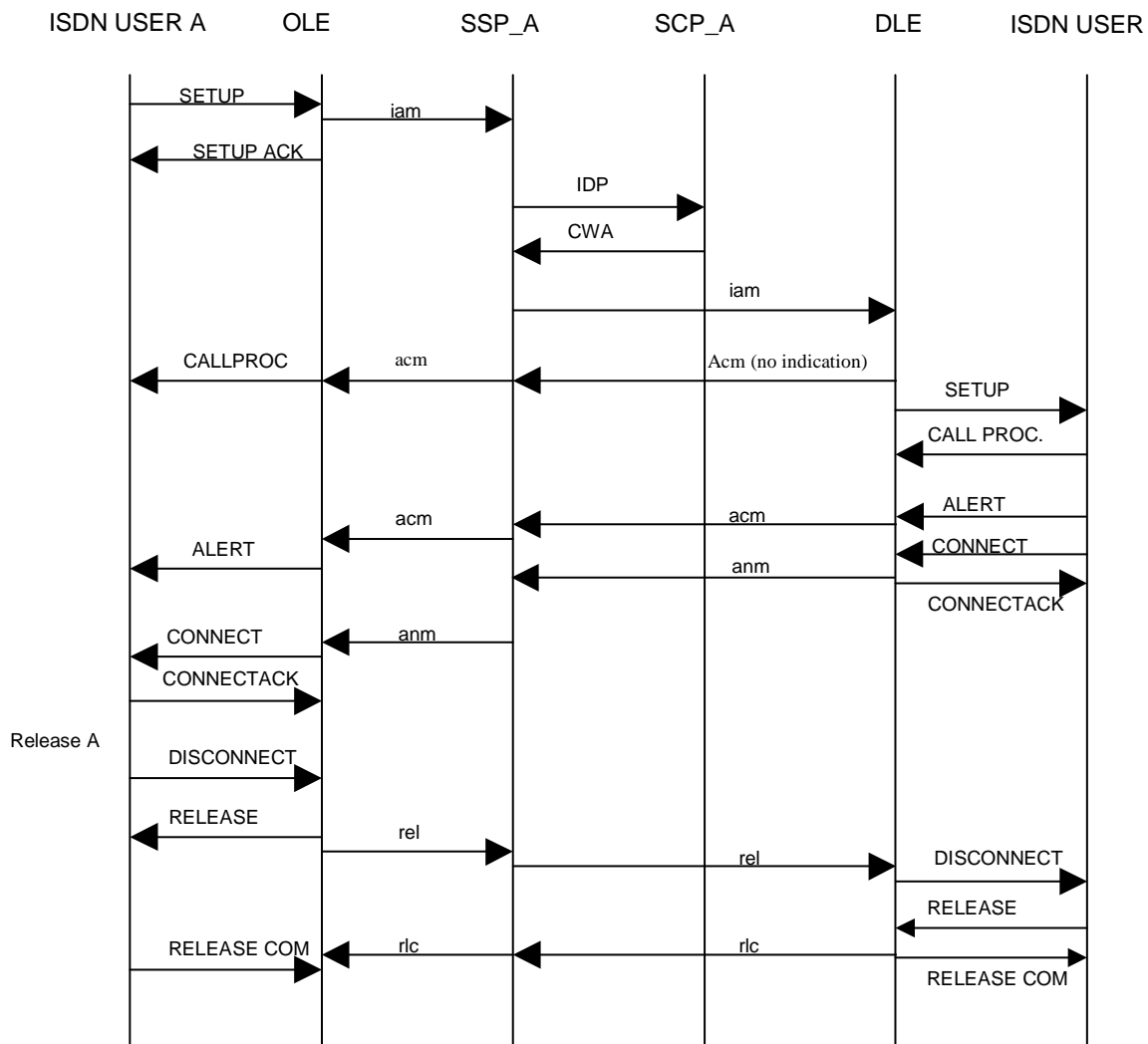


NOTE: The ACM message is optional.

Figure 84: Number translation service flow with Continue Message

II__xx N_ 02	Other ref.: Q.1601 EN 301 931-2 clause 14.3	
TSS reference:	ISDN to ISDN/Number translation services/Successful	
ISDN selection criteria:	Numb_Trans	
Test purpose:	Verify that the Call is routed to the Called Party Number with a Continue operation. Ensure that the parameter received in the ServiceInteractionIndicatorsTwo received from the SCP in the ContinueWithArgument operation will be sent in the IAM by the SSP.	
PCO / PO ISUP/INAP Interface parameter Values (note):	<p>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).</p> <p>Receiving of Continue message On receipt of a ContinueWithArgument operation from the SCP, call processing is resumed and the call setup will be performed as described in clause 2.1.2.2/Q.764. Ensure that the CONTINUE_PAR_ID parameters received from the SCP in the ContinueWithArgument operation will be mapped in the IAM by the SSP. Parameters which were received in the IAM and are not replaced by parameters of the ContinueWithArgument operation are treated according to the normal procedures.</p> <p>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.</p> <p>Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.</p>	
PCO / PO ISDN/INAP interface parameter Values (note):	<p>Initial Detection point Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP parameter InitialDP_PAR_ID (see annex C).</p> <p>Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.</p> <p>Receiving of a Release message Verify that the IUT can successfully release the call.</p>	
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:	Interworking only described in Q.1601 for serviceInteractionIndicatorsTwo. Mapping of all other optional parameters is not described (see EN 301 931-2)	

II__SPN_02

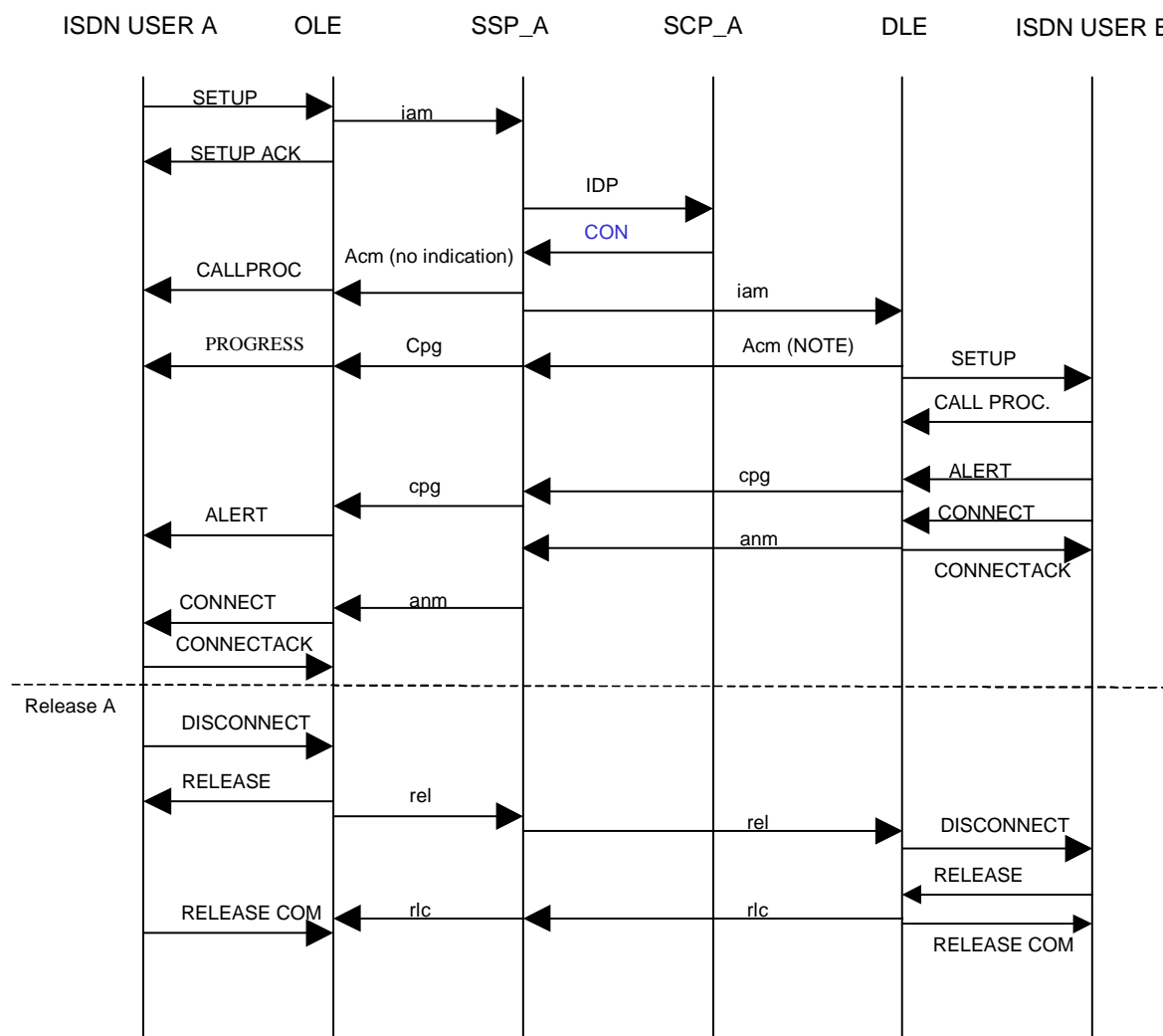


NOTE: The ACM message is optional.

Figure 85: Number translation service flow with ContinueWithArgument operation

II__xx N_ 03	Other ref.: Q.1601 EN 301 931-2
TSS reference:	ISDN to ISDN/ Number translation services/Successful
ISDN selection criteria:	Numb_Trans,
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.
PCO / PO ISUP/INAP Interface parameter Values (note):	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 . (See mapping table, annex C). 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. 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 ISDN/INAP interface parameter Values (note):	Initial Detection point Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP parameter InitialDP_PAR_ID (see annex C). 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:	

II__SPN_03



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

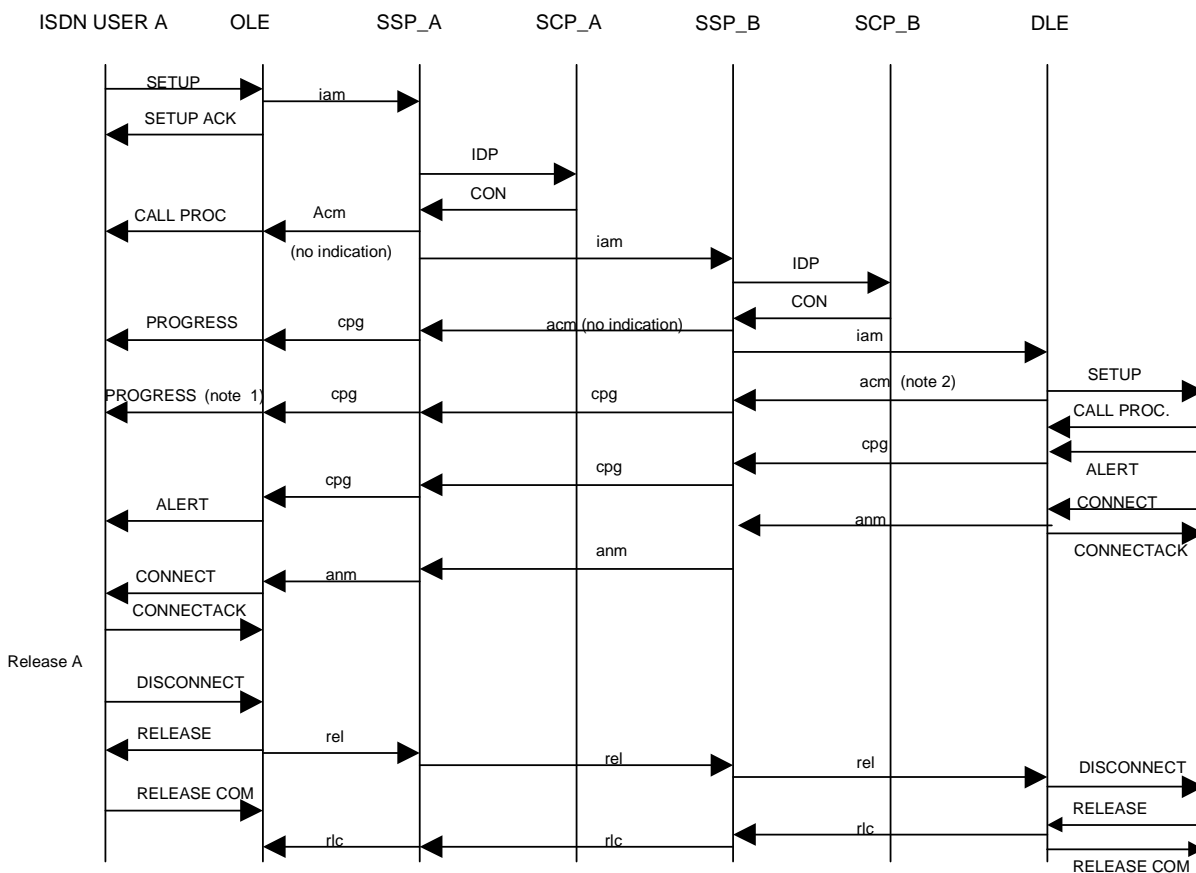
Figure 86: Number translation service flow with the Connect operation

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)

II__xx N_ 04	Other ref.: Q.1601 EN 301 931-2 clause 14.3	
TSS reference:	ISDN to ISDN/ Number translation services/Successful	
ISDN selection criteria:	Numb_Trans,	
Test purpose:	Verify that the Call is routed to the Called Party Number after the second stage Query.	
PCO / PO ISUP/INAP Interface parameter Values^{1):}	<p>Initial Detection point in IUT 1 Verify that the IUT can successfully map the IAM parameter IAM_PAR_ID to the InitialDP parameter InitialIDP_PAR_ID (see annex C).</p> <p>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.</p> <p>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).</p> <p>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.</p> <p>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.</p> <p>Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.</p>	
PCO / PO ISDN/INAP interface parameter Values^{2):}	<p>Initial Detection point Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP parameter InitialIDP_PAR_ID (see annex C).</p> <p>Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.</p> <p>Receiving of a Release message Verify that the IUT can successfully release the call.</p>	
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:		

II__SPN_04



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.

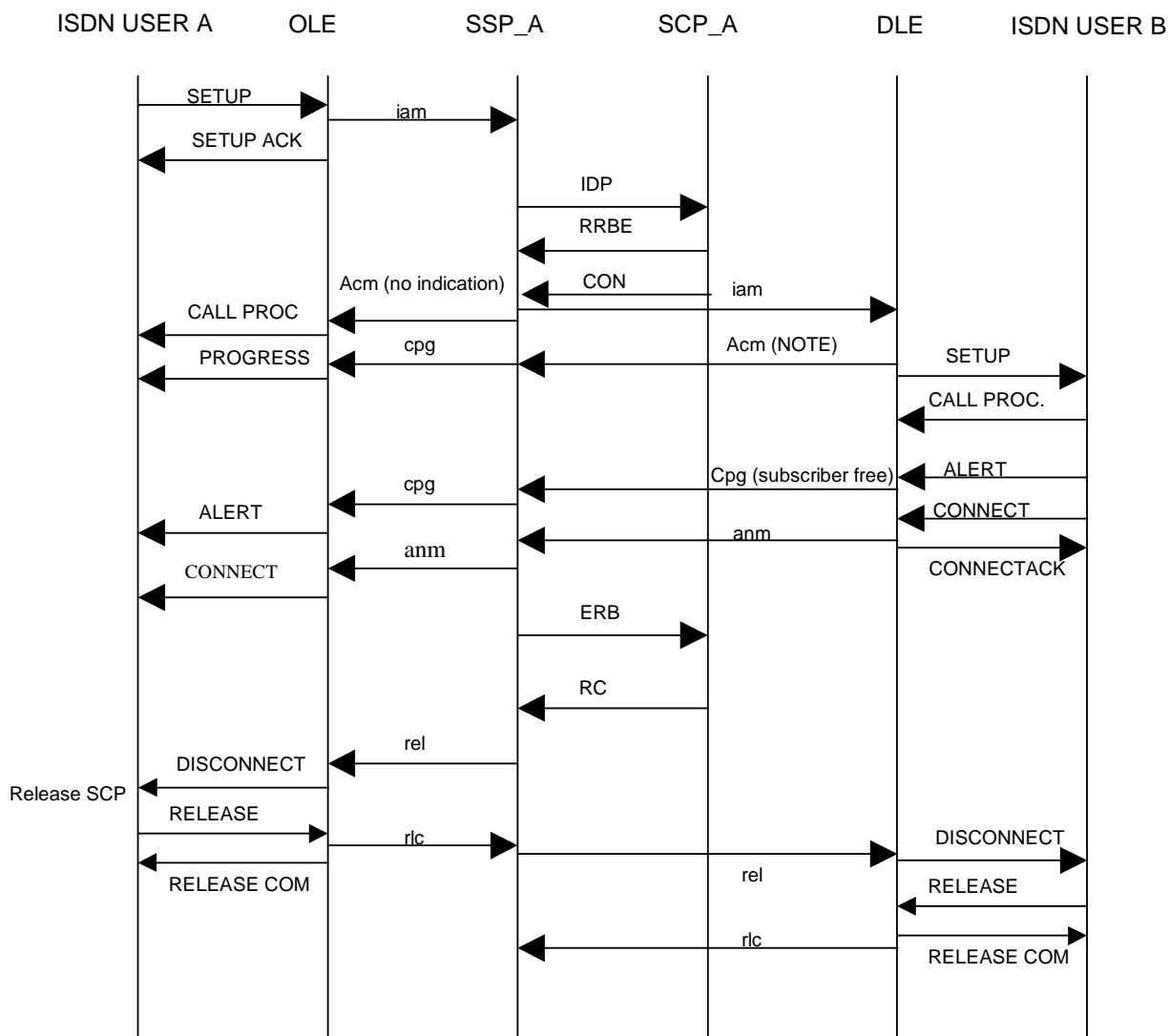
Figure 87: Number translation service flow with second stage Query

Table 12: Sending and mapping of backward messages

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

II__xx N_ 05	Other ref.: EN 301 931-2 GSM Association PRD IR.32 clause 2.2.4	
TSS reference:	ISDN to ISDN/Number translation services/Successful	
ISDN selection criteria:	Numb_Trans,	
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 ISUP/INAP Interface parameter Values (note):	Initial Detection point No action. Connect Operation 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 ISDN/INAP interface parameter Values (note):	Initial Detection point Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP parameter InitialDP_PAR_ID (see annex C). 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:	Service logic The SCF alters the destination address. SCF sends RRBE ([O_Answer,notify], [O_Disc,interrupted, legID=1], [O_Disc,interrupted, 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	

II__SPN_05

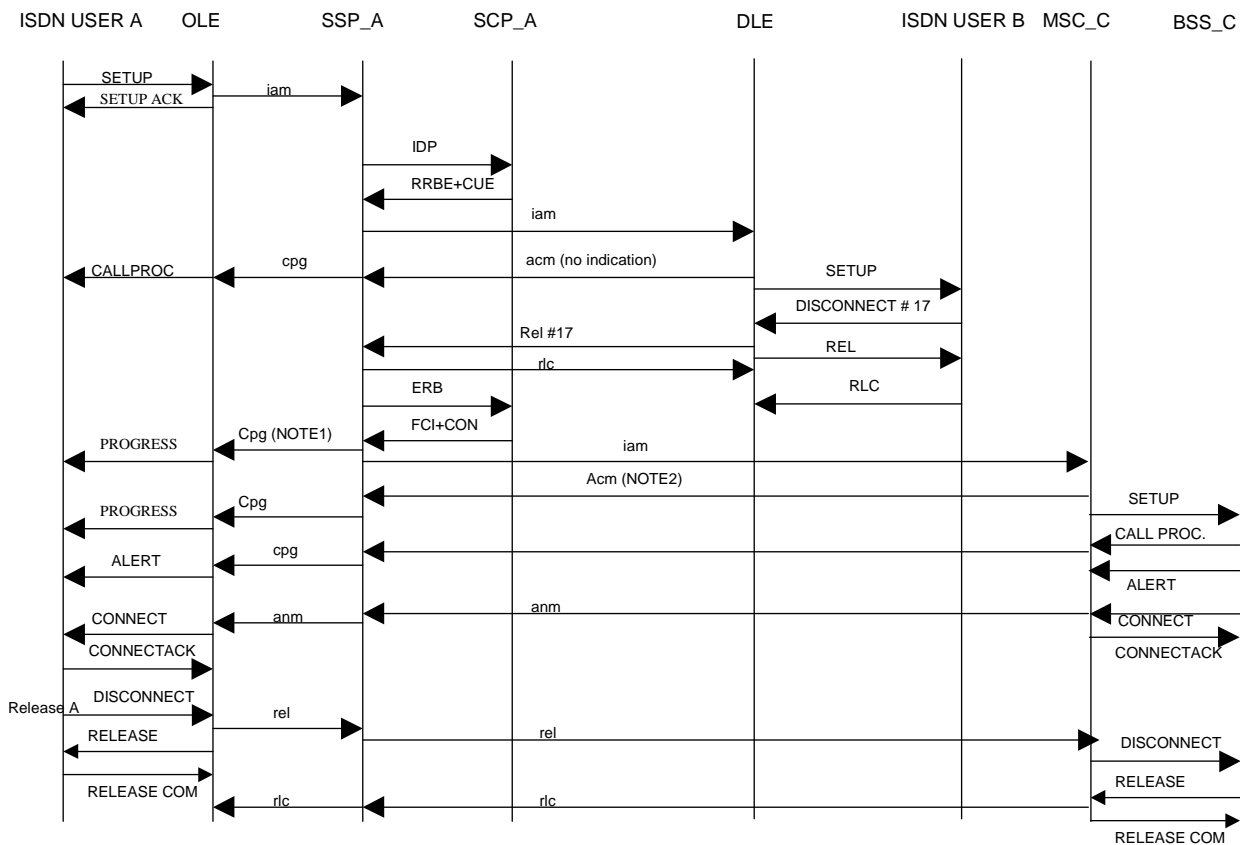


NOTE: The sending of an early ACM is optional.

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

II__xx 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 criteria:	Numb_Trans,	
Test purpose:	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.	
PCO / PO ISUP/INAP Interface parameter Values (note):	Initial Detection point No action Continue Operation No action Release Operation An REL with cause value # 17 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 Verify that the IUT can successfully map the Release Call Message and release the call like an ordinary transit exchange.	
PCO / PO ISDN/INAP interface parameter Values (note):	Initial Detection point Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP parameter InitialIDP_PAR_ID (see annex C). 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:	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 Event CUE: Continue ERB: Event Report BCSM FCI: Furnish Charging Info	

II__SPN_06



NOTE 1: The CPG message is optional.

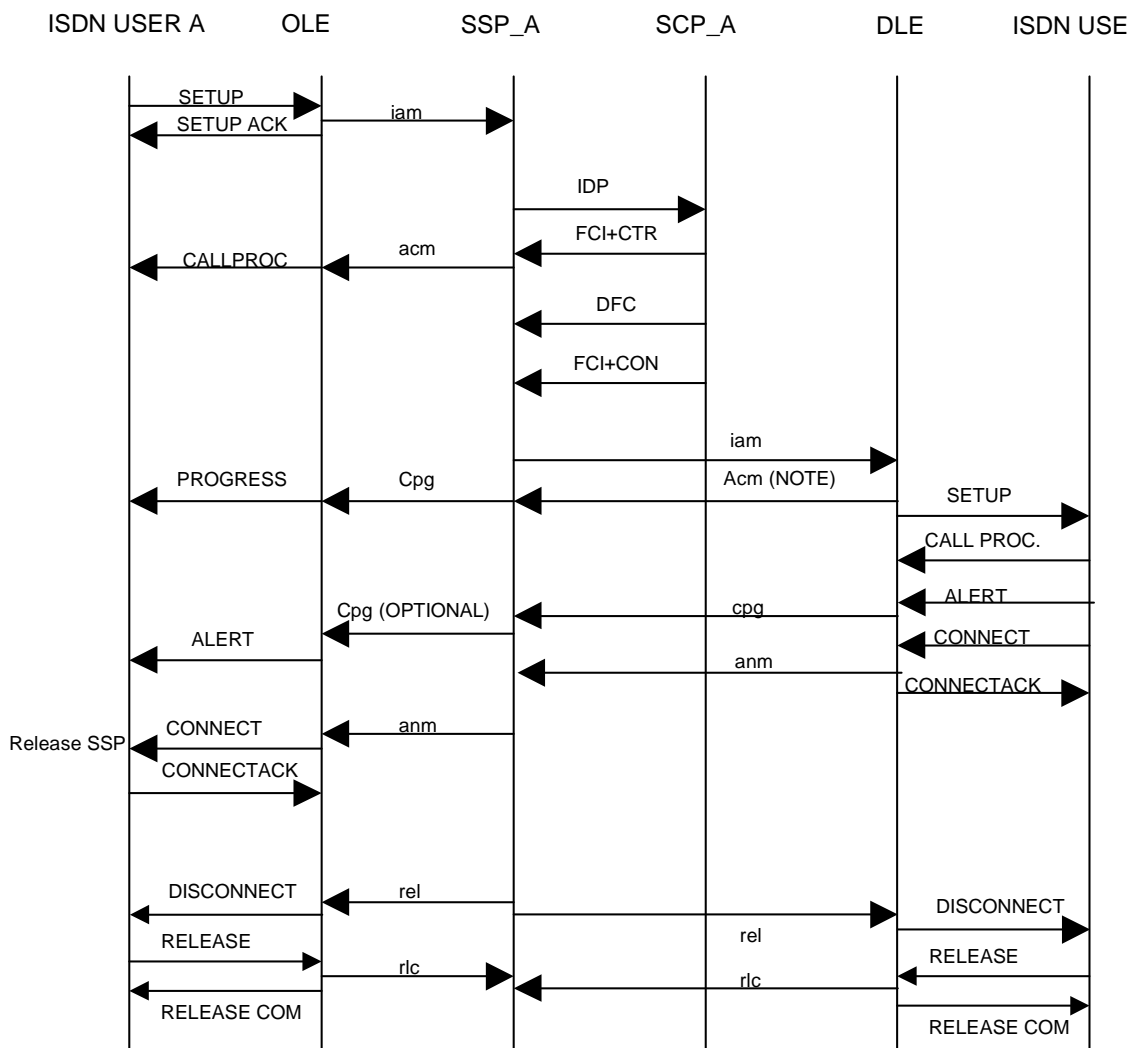
NOTE 2: The ACM message is optional.

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.: Q.1601
TSS reference:	ISDN to ISDN/ Number translation services/Successful
ISDN selection criteria:	Numb_Trans,
Test purpose:	User A makes a call to user B. SCP instructs in the Connect Operation the SSP to suppress announcements. Verify the utilization of the parameter SuppressionOfAnnocement.
PCO / PO ISUP/INAP Interface parameter Values (note):	Initial Detection point No action Connect Operation 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 ISDN/INAP interface parameter Values (note):	Initial Detection point Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP parameter InitialDP_PAR_ID (see annex C). 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:	

II__xx N_ 08	Other ref.: Q.1601
TSS reference:	ISDN to ISDN/ Number translation services/Successful
ISDN selection criteria:	Numb_Trans,
Test purpose:	User A makes a call to user B. The Announcement is charged with a different value compared to the established call. Verify the utilization of the parameter Furnish Charging Info.
PCO / PO ISUP/INAP Interface parameter Values (note):	Initial Detection point No action Connect Operation No action Sending of backward messages No action
PCO / PO ISDN/INAP interface parameter Values (note):	Initial Detection point No action Sending of backward messages No action Receiving of a Release message 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:	
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 Event RC: Release Call

II__SPN_08



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

GG__SP NU 01	Other ref.: Q.1601
TSS reference:	ISDN to ISDN/ Number translation services/Unsuccessful
ISDN selection criteria:	Numb_Trans,
Test purpose:	To verify that the Call is released immediately and that no rerouting activity takes place if the SCP recognizes that a barred number is dialled.
PCO / PO ISUP/INAP Interface parameter Values¹⁾:	Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.
PCO / PO ISDN/INAP interface parameter Values²⁾:	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:	

Values for test purposes II__xx 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

II__SPNU_01

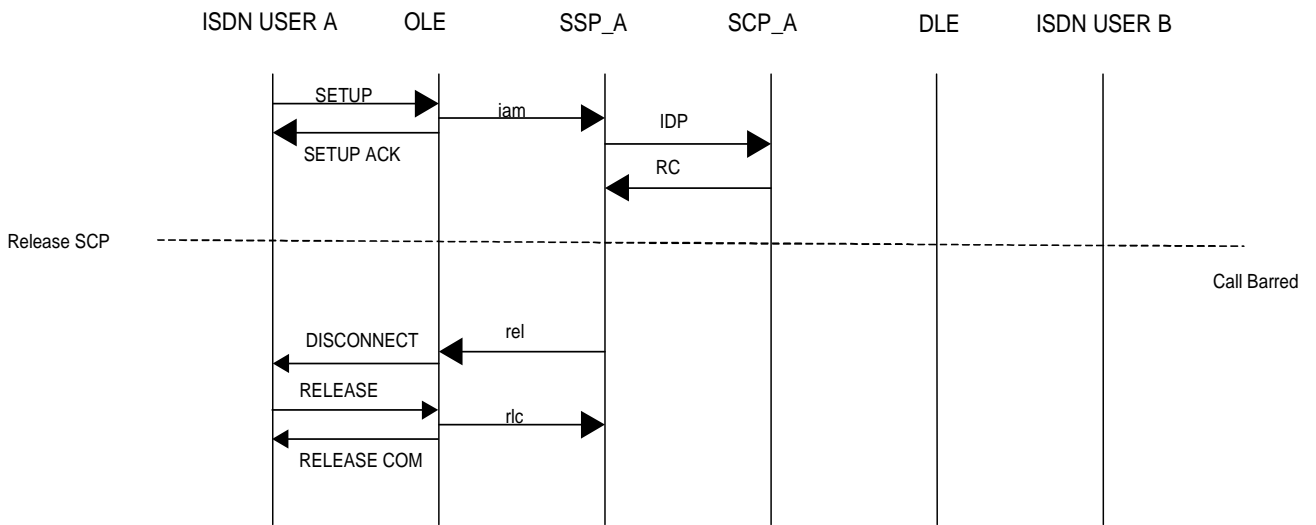


Figure 91: Unsuccessful number translation service flow, SCP recognizes that a barred number is dialled

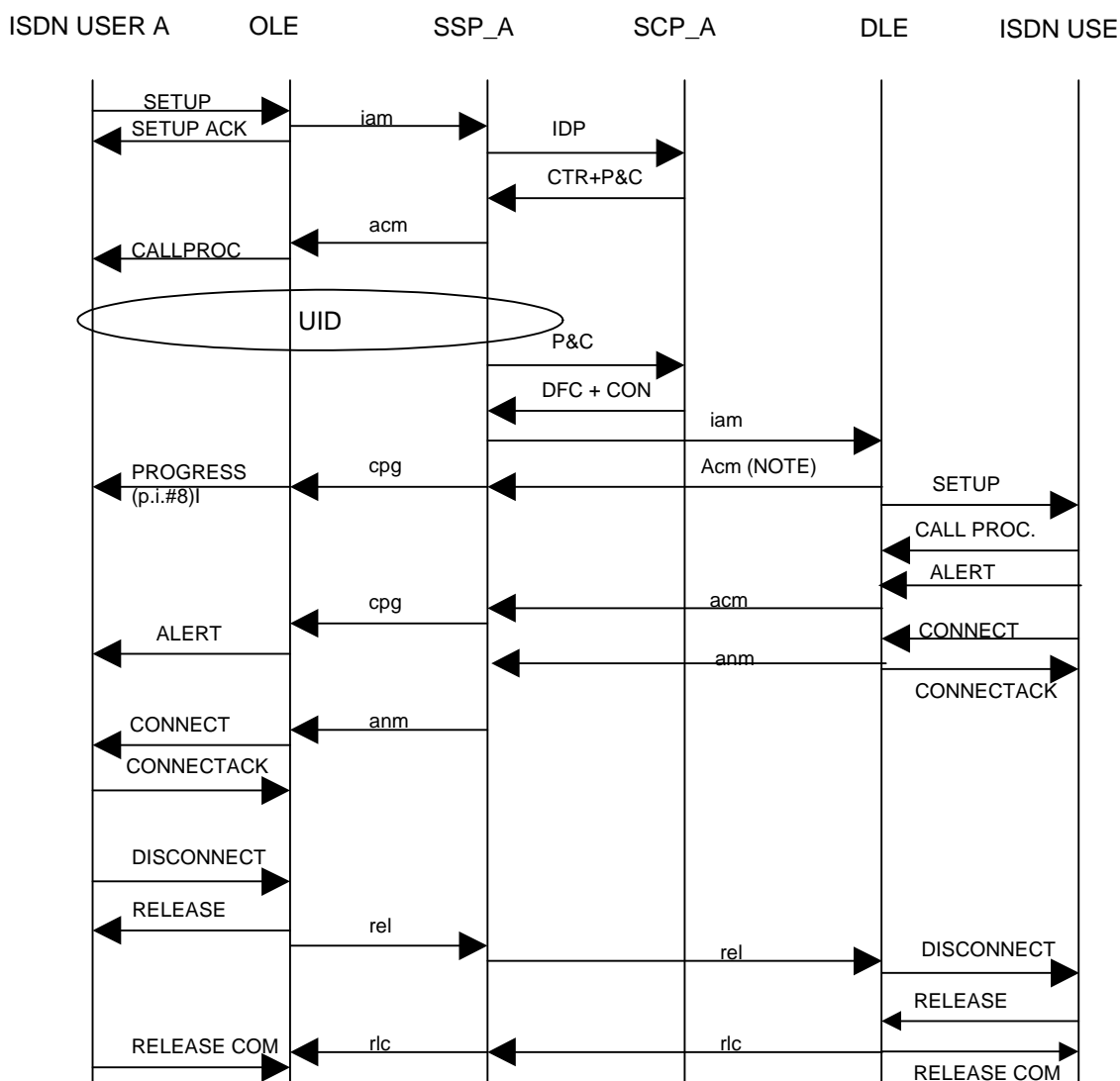
7.3.3 Services with user interactive dialogue

7.3.3.1 Successful

II__xx I_01	Other ref.: Q.1601 clause 10.1.5
TSS reference:	ISDN to ISDN/ Services with user interactive dialogue/Successful
ISDN selection criteria:	Numb_Trans, IN call with user interactive dialogue (in-band) SSP supports requested IP capabilities, OLE supports 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 supports UID capabilities.
PCO / PO ISUP/INAP Interface parameter Values (note):	<p>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).</p> <p>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:</p> <p>a) <i>Through-connection instruction</i> 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).</p> <p>b) <i>T9 timer instruction</i> 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).</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.</p>
PCO / PO ISDN/INAP interface parameter Values (note):	<p>Initial Detection point Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP parameter InitialDP_PAR_ID (see annex C).</p> <p>Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.</p> <p>Receiving of a Release message Verify that the IUT can successfully release the call.</p>

II__xx I_ 01	Other ref.: Q.1601 clause 10.1.5
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:	

II__SPI_01

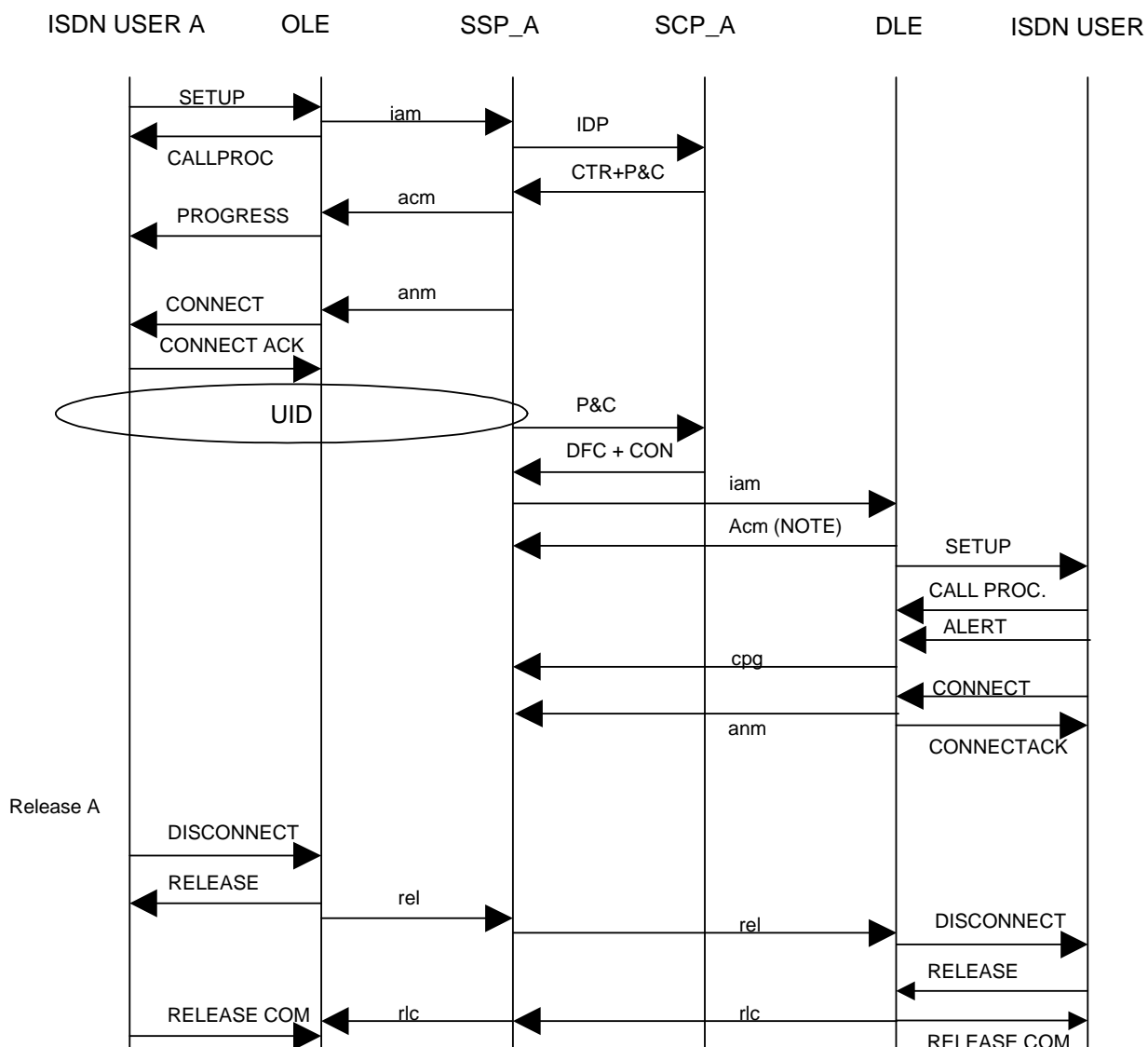


NOTE: The sending of the early ACM message is optional.

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

II__xx I_02	Other ref.: Q.1601 clause 10.1.5
TSS reference:	ISDN to ISDN/ Services with user interactive dialogue /Successful
ISDN selection criteria:	Numb_Trans, IN call with user interactive dialogue (in-band) SSP supports requested IP 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 support UID capabilities.
PCO / PO ISUP/INAP Interface parameter Values (note):	<p>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).</p> <p>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) or no indication.</p> <p>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.</p> <p>If backward messages have already been sent to the preceding exchange, then instead of ANM a different message may be sent.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.</p>
PCO / PO ISDN/INAP interface parameter Values (note):	<p>Initial Detection point Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP parameter InitialDP_PAR_ID (see annex C).</p> <p>Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.</p> <p>Receiving of a Release message Verify that the IUT can successfully release the call.</p>
ISDN parameter values:	<p>BC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE</p> <p>LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE</p> <p>HLC = HLC_ID</p>
Comments:	

II__SPI_02

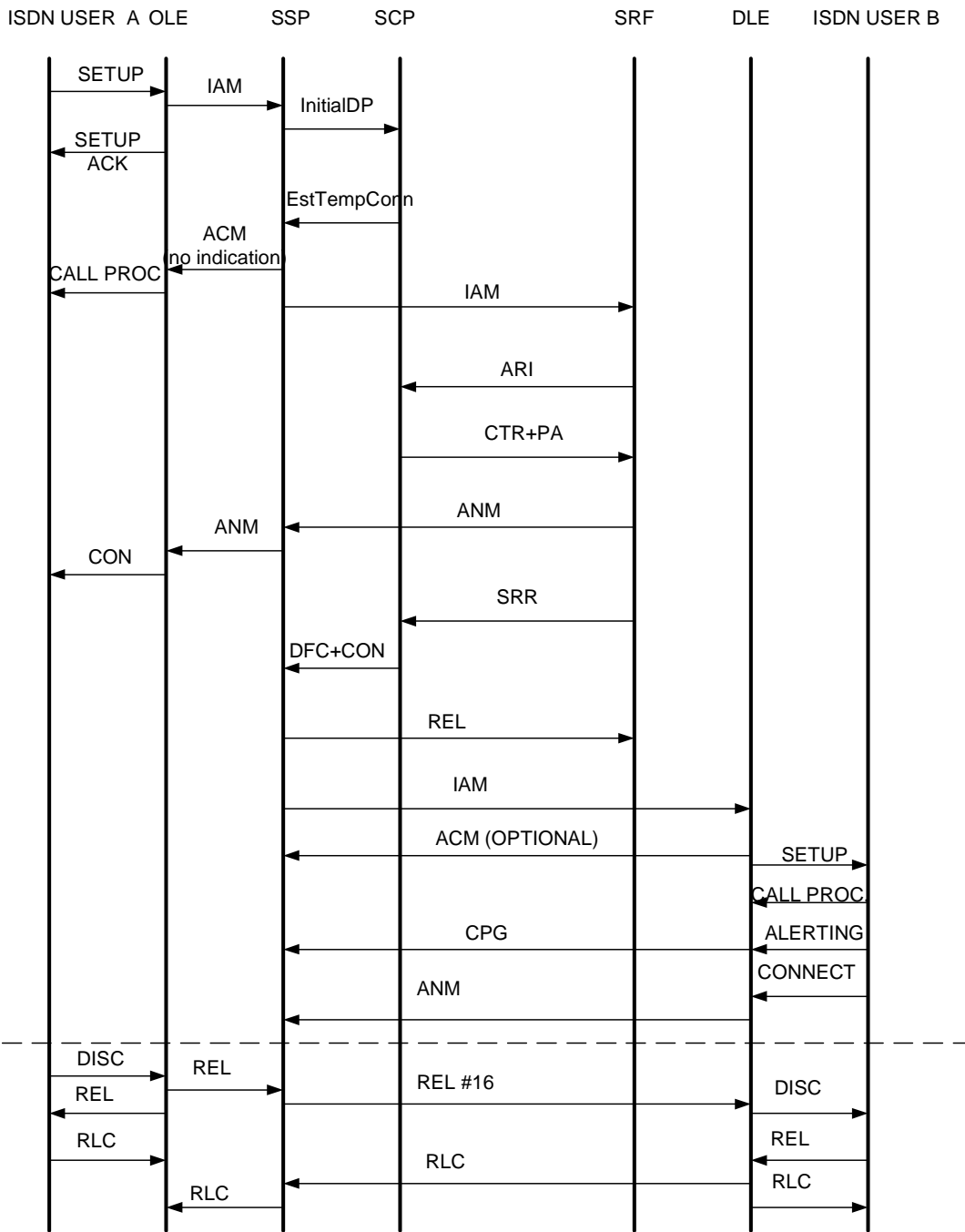


NOTE: The sending of the ACM message is optional.

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

II__xx I_03	Other ref.: Q.1601; clauses 10.1.1.1.1.1 and 10.1.5.2.1.1.1	
TSS reference:	ISDN to ISDN/ Services with user interactive dialogue/Successful	
ISDN selection criteria:	Numb_Trans, IN call with user interactive dialogue (in-band) Assist method; procedure in initiating SSP	
Test purpose:	User A makes a call to user B. On receipt of the EstablishTemporaryConnection 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 ISUP/INAP Interface parameter Values (note):	<p>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).</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.</p>	
PCO / PO ISDN/INAP interface parameter Values (note):	<p>Initial Detection point Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP parameter InitialDP_PAR_ID (see annex C).</p> <p>Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.</p> <p>Receiving of a Release message Verify that the IUT can successfully release the call.</p>	
ISDN parameter values:	GSM-BC = GSM-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:		

II__SPL_03



int.ref.IN4

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 10.1.1.1.4 (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).

II__xx I_ 04	Other ref.: Q.1601 clause 10.1.5
TSS reference:	ISDN to ISDN/ Services with user interactive dialogue /Successful
ISDN selection criteria:	Numb_Trans, IN call with user interactive dialogue (in-band) Assist method; procedure in 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 ISUP/INAP Interface parameter Values (note):	<p>AssistRequestInstructions operation If an IAM is received in a SSP and the call is recognized as a call which is to be routed to an IP, an AssistReqInstructions operation is sent from the SSF to the SCF. The mapping of parameters is shown in table 14.</p> <p>ConnectToResource operation When the IP answers, the sending of an ANM message depends on the following conditions:</p> <p>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.</p> <p>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.</p> <p>If backward messages have already been sent to the preceding exchange, then instead of ANM a different message may be sent.</p> <p>NOTE: The sending of an ANM message may also be required, if a chargeable announcement is to be connected.</p> <p>Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.</p>

II__xx I_04	Other ref.: Q.1601 clause 10.1.5
PCO / PO ISDN/INAP interface parameter Values (note):	Initial Detection point Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP parameter InitialDP_PAR_ID (see annex C). 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:	

II__SPI_04

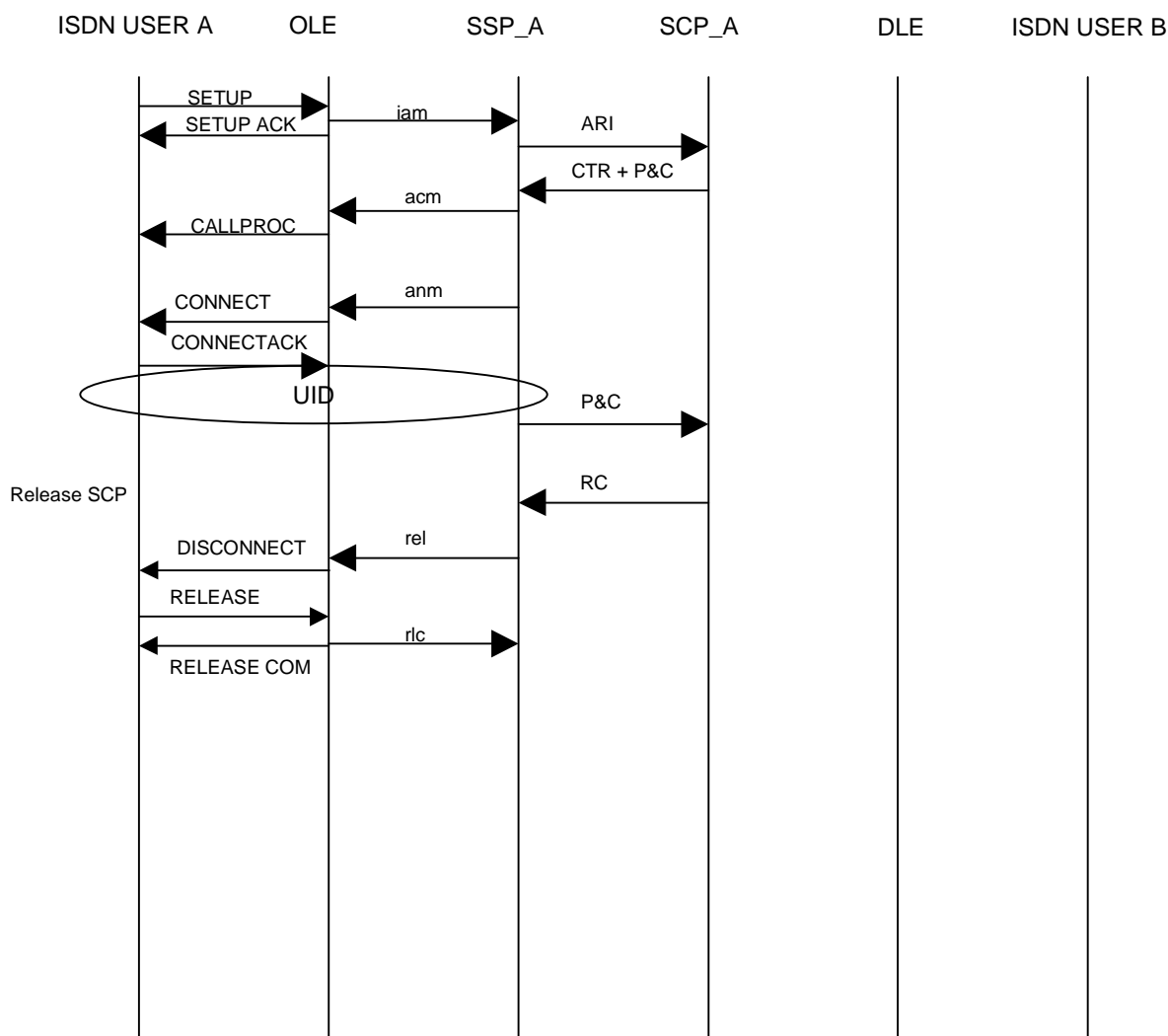


Figure 95: User interactive dialogue service, IN call with user interactive dialogue (in-band) Assist method; procedure in initiating SSP; an AssistReqInstructions operation is sent from the SSF to the SCF

Table 15: Mapping of parameters from IAM to AssistRequestInstruction

ISUP message	INAP operation
IAM	AssistRequestInstruction
Correlation id	CorrelationID

Values for test purposes II_xx I_01 to II_xx 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" (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.					

7.3.3.2 Unsuccessful

Unsuccessful

Services with user interactive dialogue

II__xxIU 01	Other ref.: Q.1601 clause 10.1.5
TSS reference:	ISDN to ISDN/ Services with user interactive dialogue/Unsuccessful
ISDN selection criteria:	Numb_Trans,
Test purpose:	Verify that on receipt of the ConnectToResource operation the 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.
PCO / PO ISUP/INAP 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). 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 Verify that the IUT can successfully map the SETUP_PAR_ID parameter to the InitialDP parameter InitialIDP_PAR_ID (see annex C). 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:	

II__SPIU_01

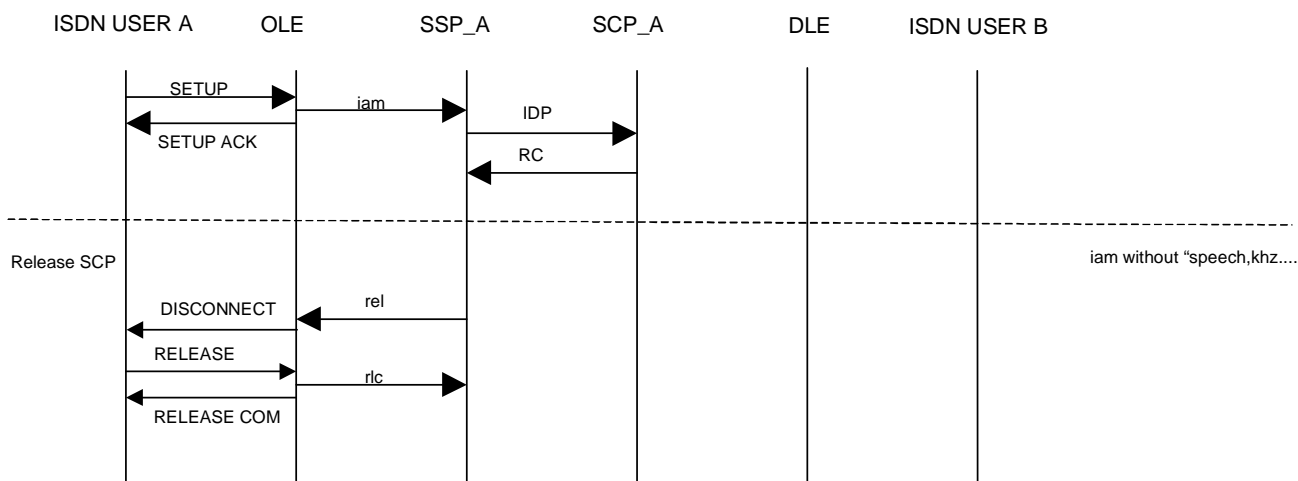
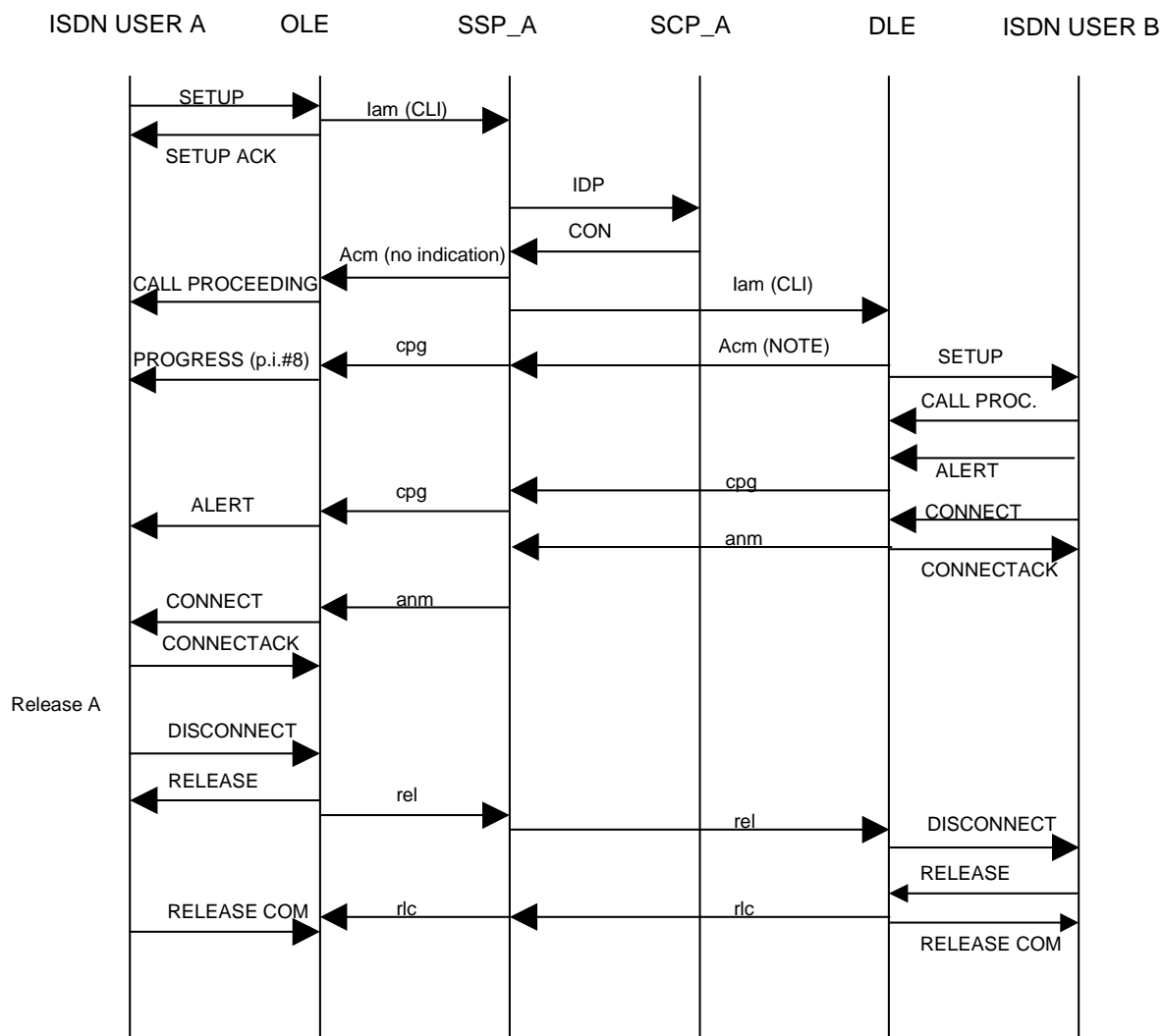


Figure 96: Unsuccessful user interactive dialogue service, call is released using the cause value #65 if other TMR values received in the IAM message than "speech" or "3,1 kHz audio" or "64 kbit/s unrestricted preferred" are received

7.3.4 Supplementary Services

II____xx NS CLIP 01	Other ref.: Q.1601 clause 10.1.1.1.1.1
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/CLIP
ISDN selection criteria:	Numb_Trans,
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 ISUP/INAP Interface parameter Values (note):	<p>Initial Detection point Verify that the IUT can successfully map the IAM IE Calling party number and Generic number to the InitialDP parameters callingPartyNumber and genericNumber.</p> <p>No action</p> <p>Connect Operation / Continue operation No callingPartyNumber or genericNumber has been received in the Connect operation</p> <p>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.</p> <p>Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.</p>
PCO / PO ISDN/INAP interface parameter Values (note):	<p>Initial Detection point No action</p> <p>Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.</p> <p>Receiving of a Release message Verify that the IUT can successfully release the call.</p>
ISDN parameter values:	<p>BC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE</p> <p>LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE</p> <p>HLC = HLC_ID</p>
Comments:	

II__SPNS_CLIP_01

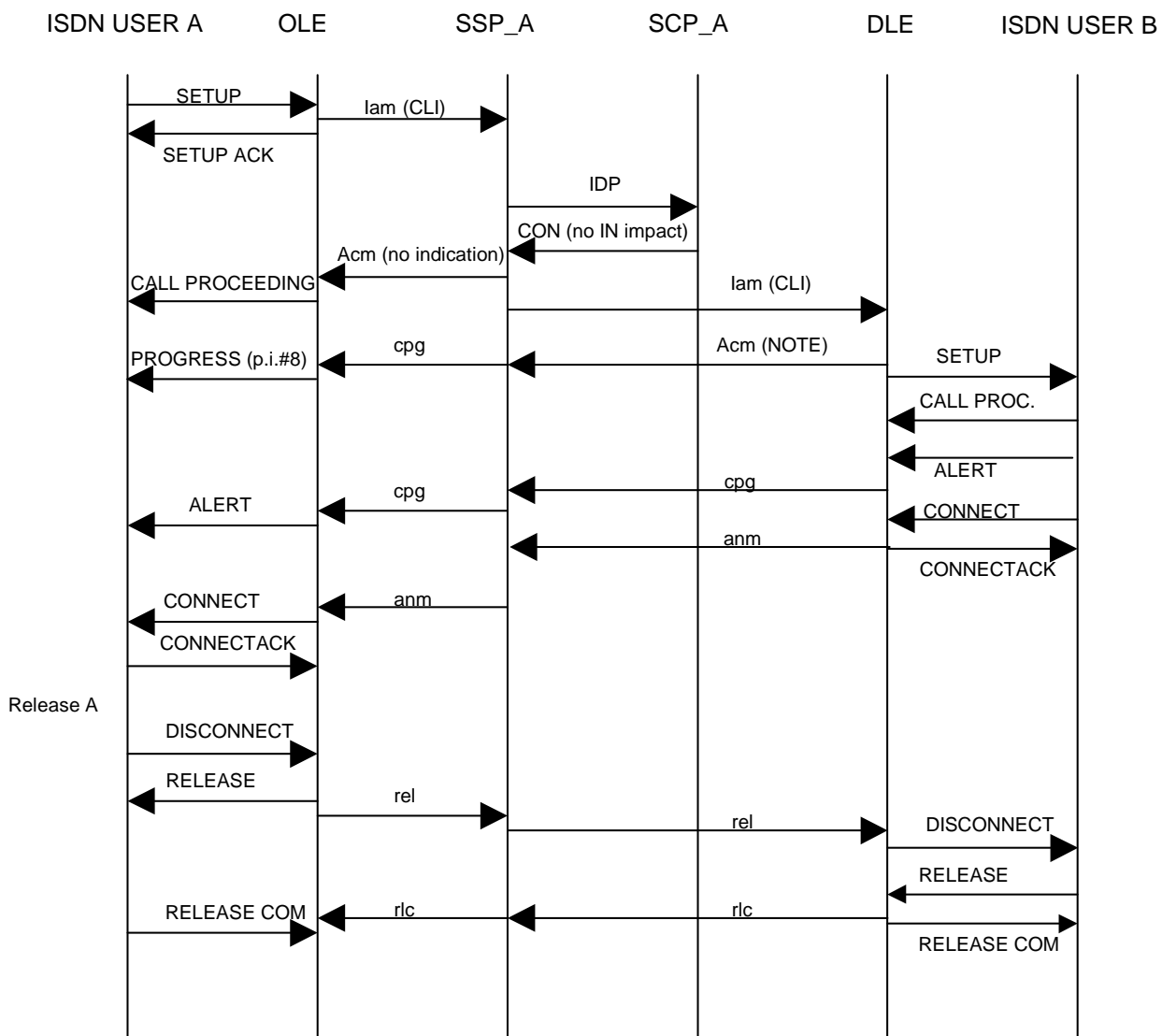


NOTE: The sending of a early ACM is optional.

Figure 97: Number translation services; Supplementary Services; CLIP

II____xx 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 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 '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 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	
Comments:		

II__SPNS_CLIP_02

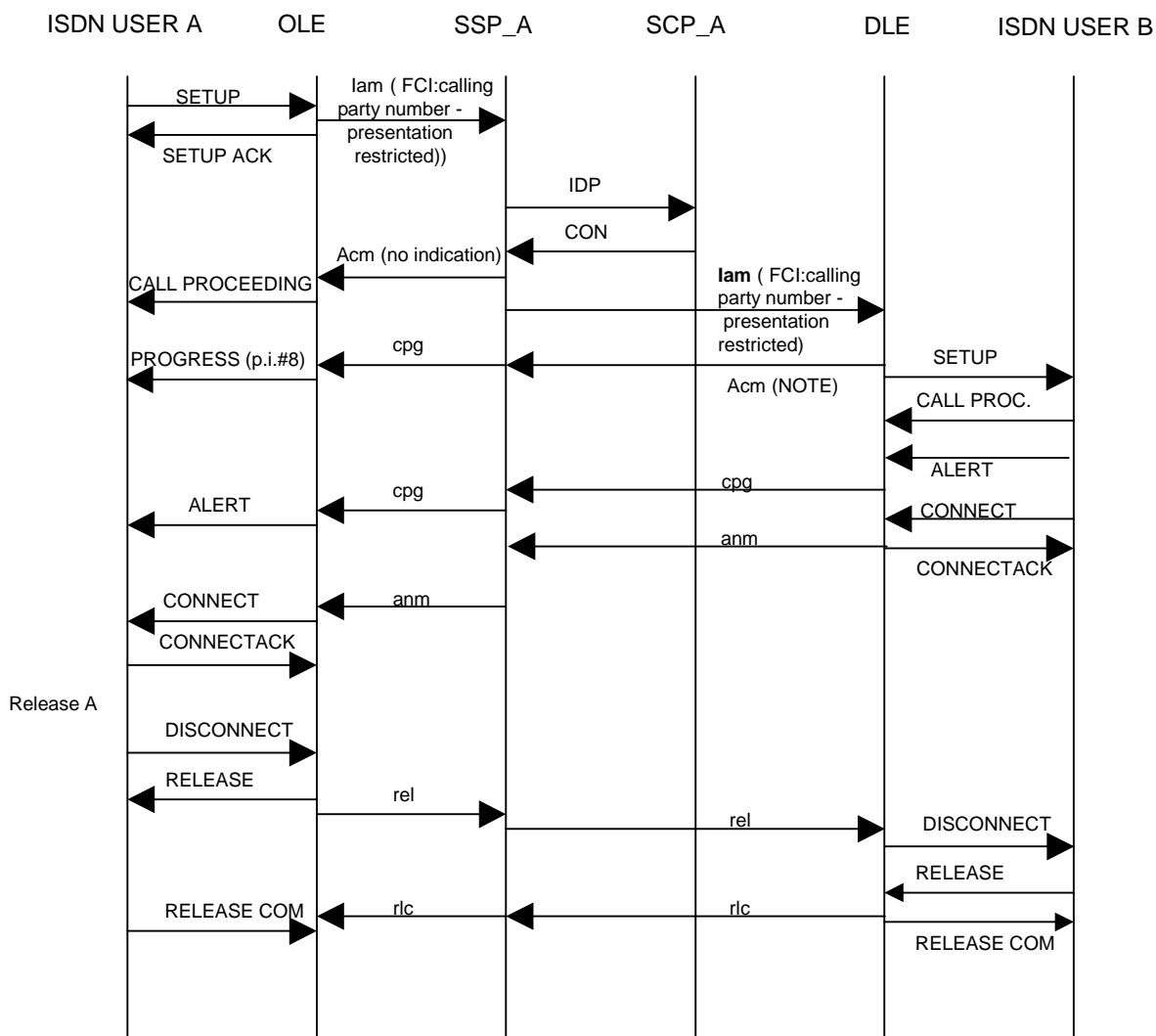


NOTE: The sending of a early ACM is optional.

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

II____xx NS CLIR 01	Other ref.: Q.1601 clause 10.1.5
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/CLIR
ISDN selection criteria:	Numb_Trans,
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.
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
Comments:	

II__SPNS_CLIR_01

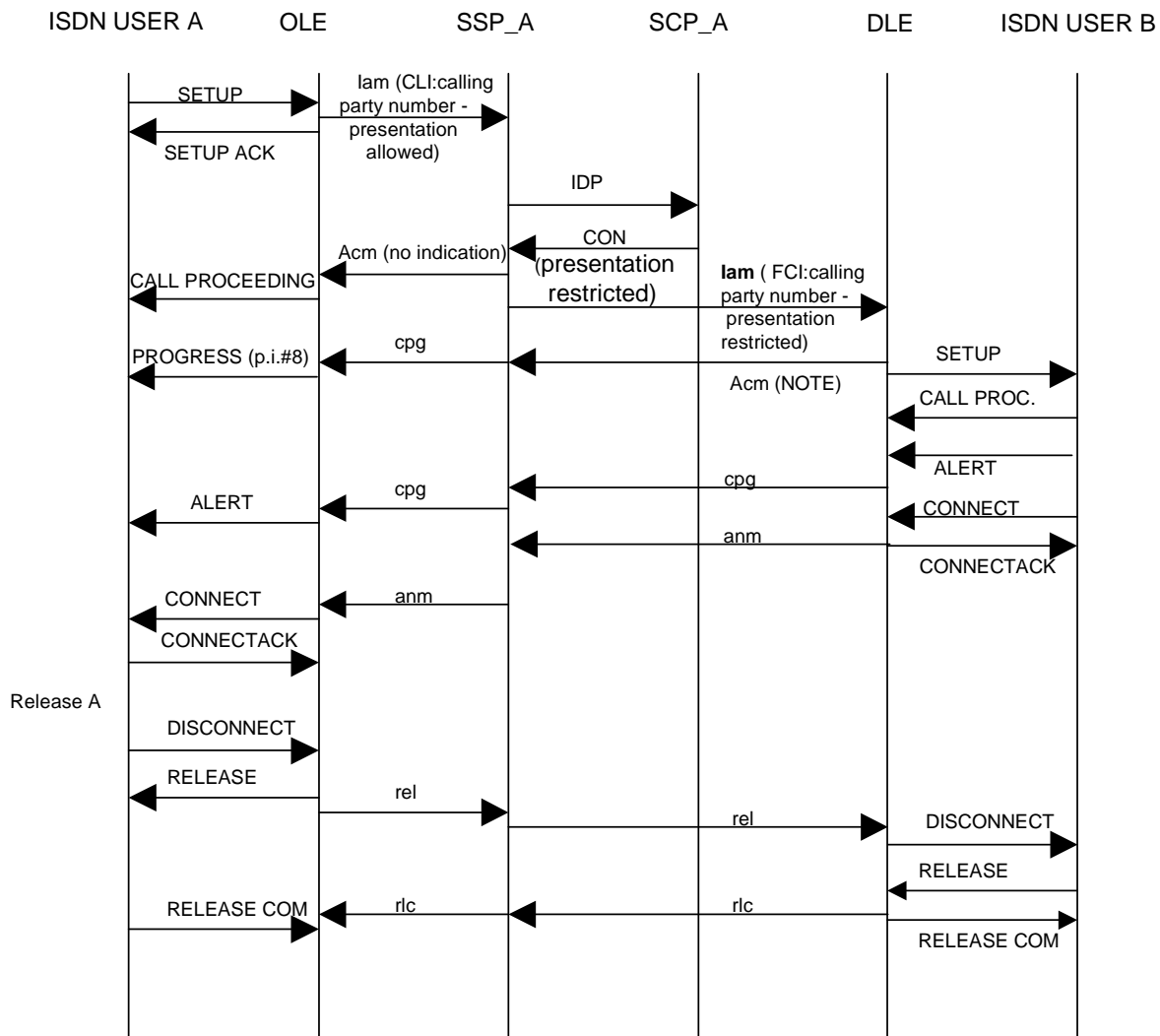


NOTE: The sending of a early ACM is optional.

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

II__xx NS CLIR 02	Other ref.:	
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/CLIR	
ISDN selection criteria:	Numb_Trans,	
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 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.	
PCO / PO ISUP/INAP Interface parameter Values (note):	<p>Initial Detection point No action</p> <p>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.</p> <p>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.</p> <p>Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.</p>	
PCO / PO ISDN/INAP interface parameter Values (note):	<p>Initial Detection point No action</p> <p>Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.</p> <p>Receiving of a Release message Verify that the IUT can successfully release the call.</p>	
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:		

II__SPNS_CLIR_02

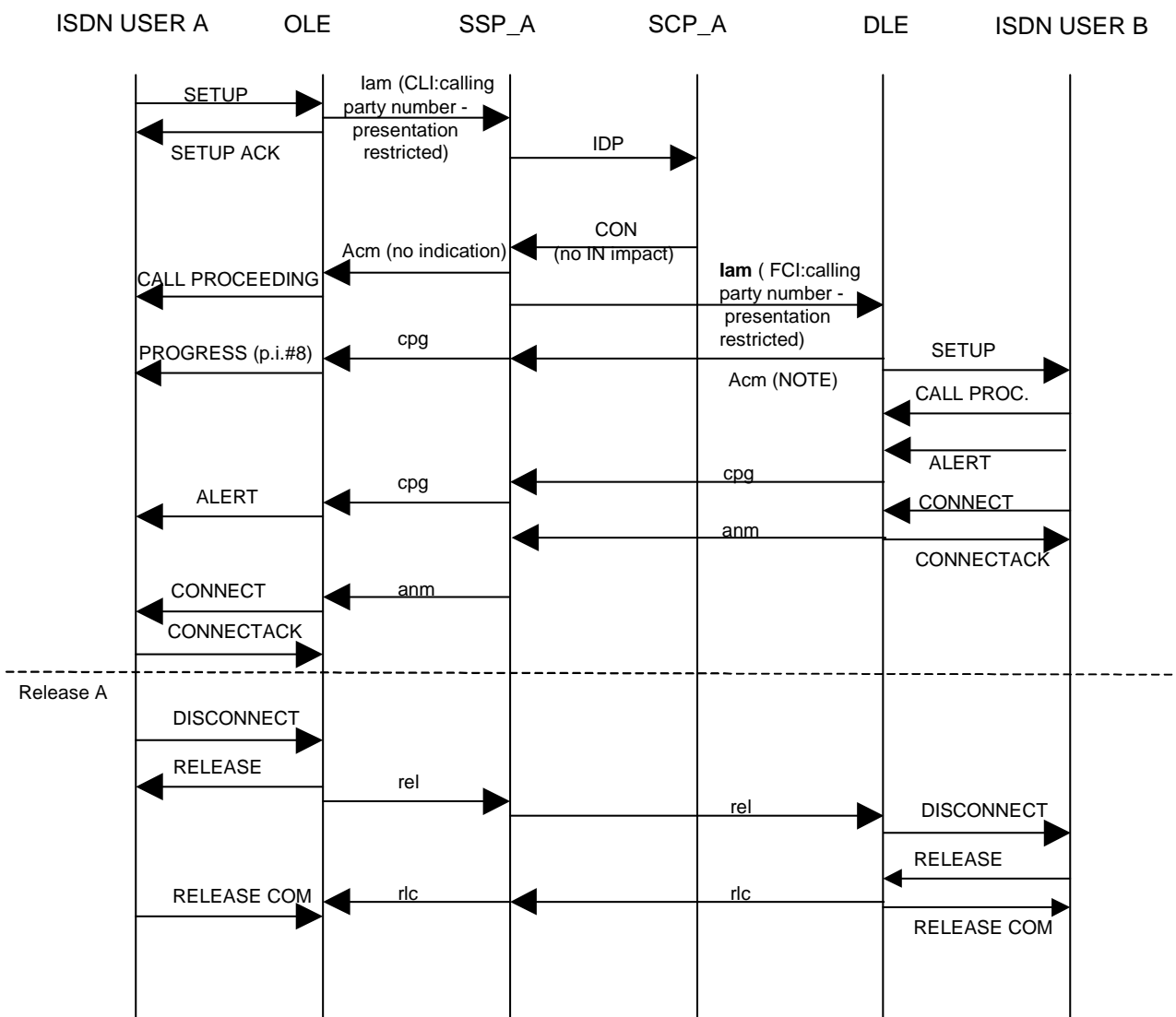


NOTE: The sending of a early ACM is optional.

Figure 100: Number translation services; Supplementary Services CLIR

II____xx NS CLIR 03	Other ref.: Q.1601
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/CLIP
ISDN selection criteria:	Numb_Trans,
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 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 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 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
Comments:	

II__SPNS_CLIR_03

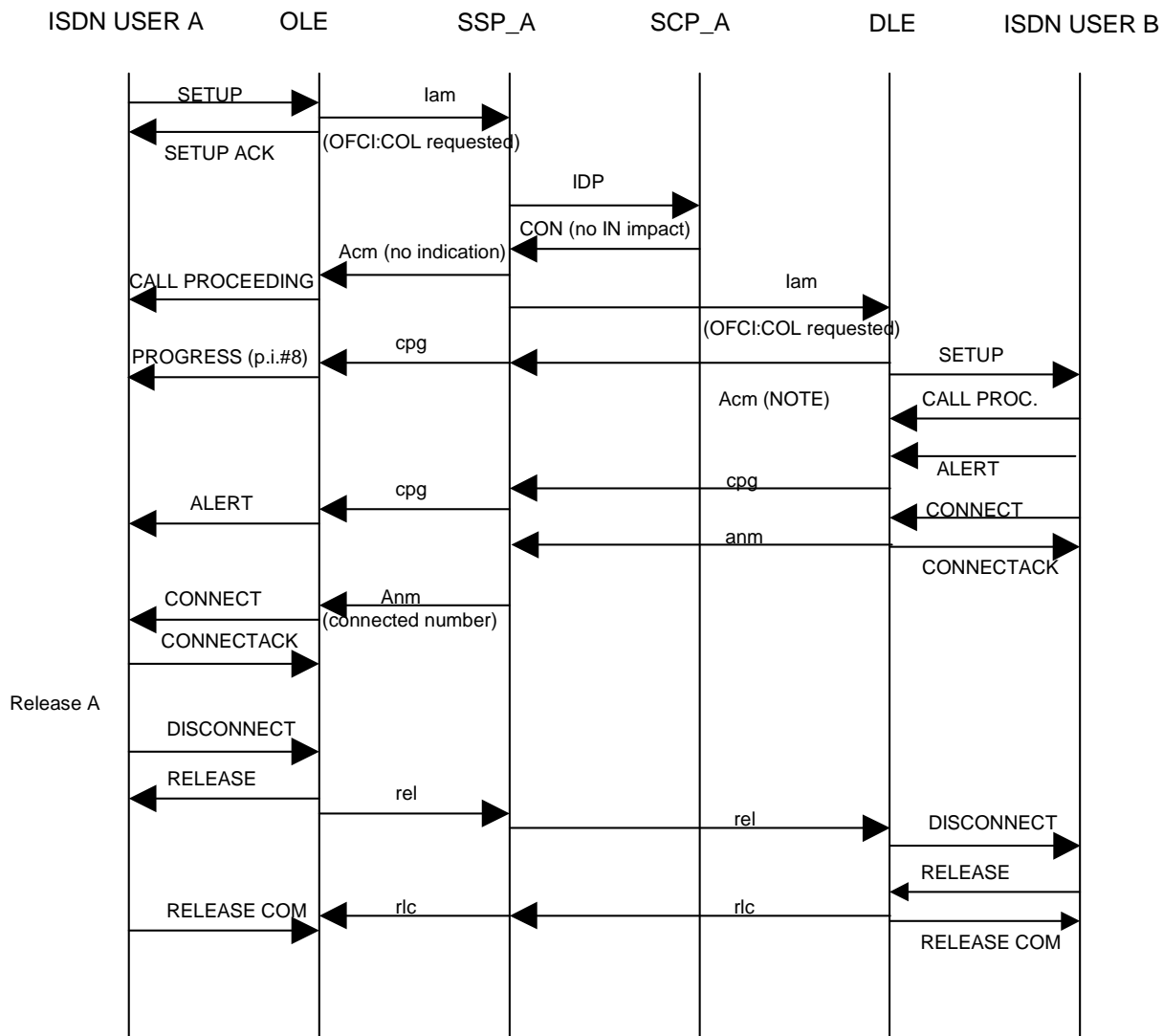


NOTE: The sending of a early ACM is optional.

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

II ___xx NS COLP 01	Other ref.: Q.1601 clause 12.5.1	
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/COLP	
ISDN selection criteria:	Numb_Trans,	
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 ISUP/INAP Interface parameter Values (note):	Initial Detection point No action Connect Operation / Continue operation 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 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. 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 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:		

II__SPNS_COLP_01

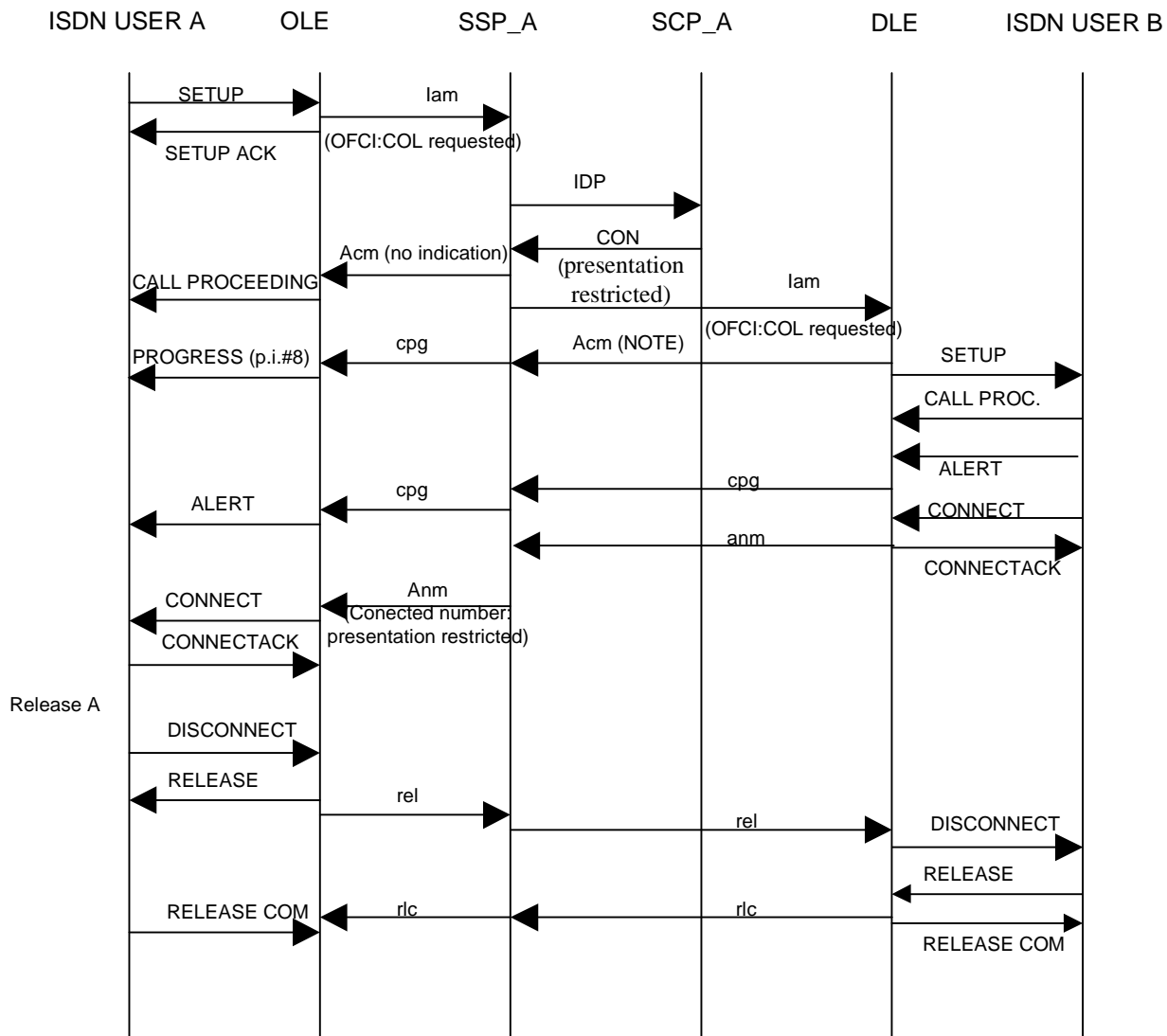


NOTE: The sending of a early ACM is optional.

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

II ___xx NS COLP 02	Other ref.: Q.1601 clause 12.5.1 a)	
TSS reference:	ISDN to ISDN/ Number translation services/ Supplementary Services/COLP	
ISDN selection criteria:	Numb_Trans,	
Test purpose:	Verify that if 'presentation restricted' was received in the 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'. Verify that the Connected number information element is network provided and delivered to the calling (served) user without any digit information.	
PCO / PO ISUP/INAP Interface parameter Values (note):	Initial Detection point No action Connect Operation / Continue operation 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 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.	
ISDNparameter 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:		

II__SPNS_COLP_02



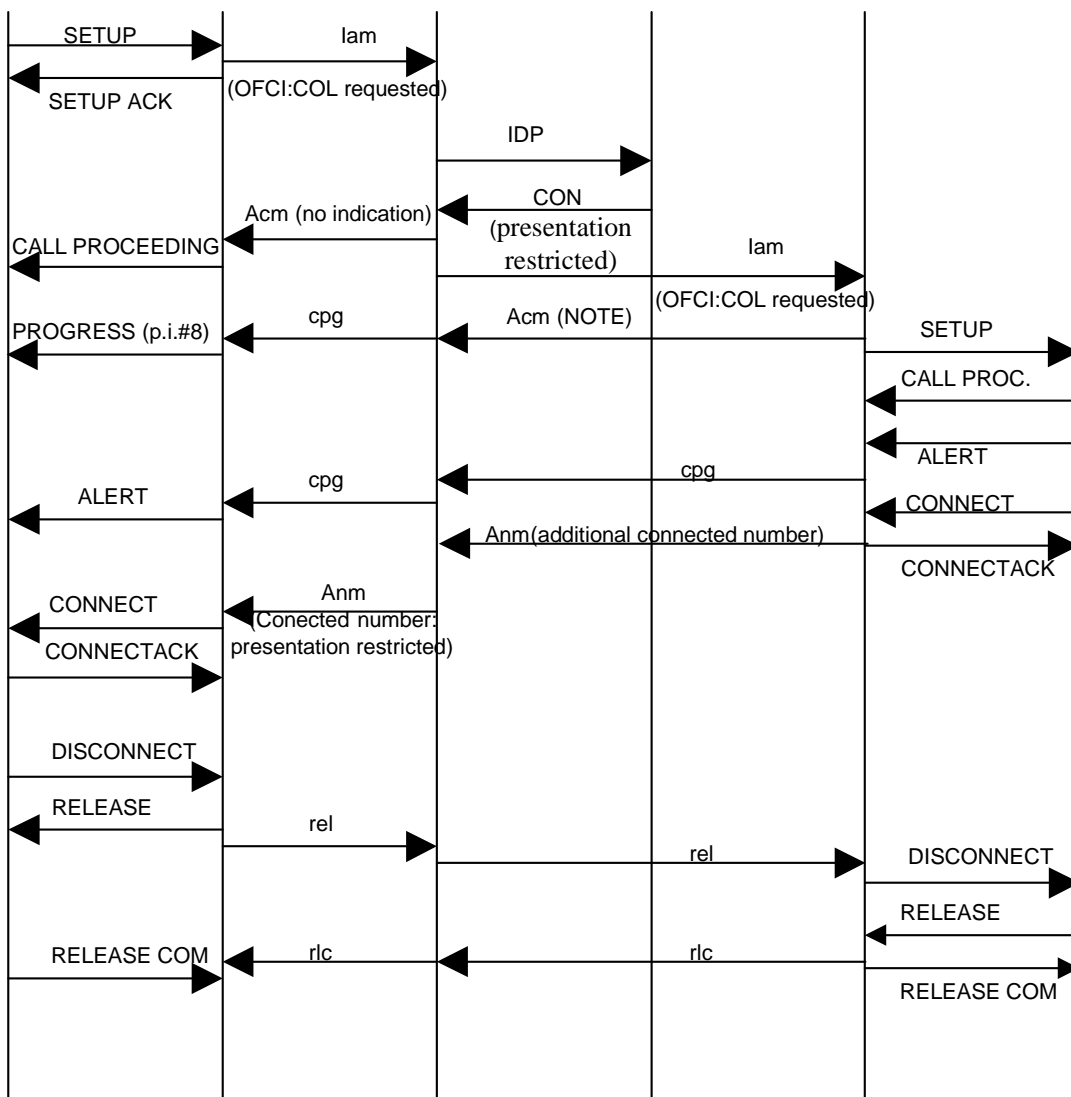
NOTE: The sending of a early ACM is optional.

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

II ___xx NS COLP 03	Other ref.: Q.1601 clause 12.5.1 b)	
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/COLP	
ISDN selection criteria:	Numb_Trans,	
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 ISUP/INAP Interface parameter Values (note):	Initial Detection point No action Connect Operation / Continue operation 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'. 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 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	
Comments:		

II__SPNS_COLP_03

ISDN USER A OLE SSP_A SCP_A DLE ISDN USER B

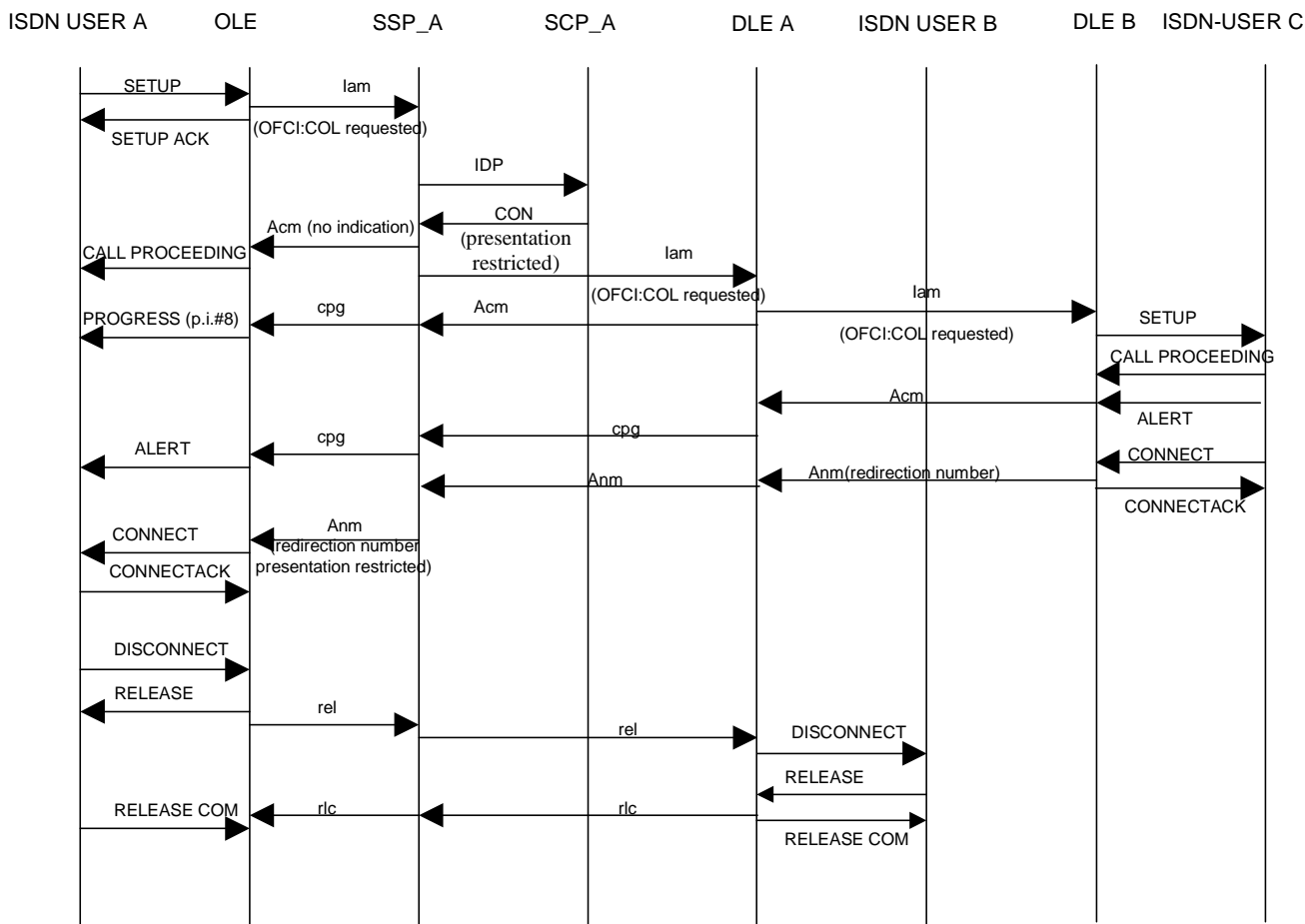


NOTE: The sending of a early ACM is optional.

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 COLP 04	Other ref.: Q.1601 clause 12.5.1 c)	
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/COLP	
ISDN selection criteria:	Numb_Trans,	
Test purpose:	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'. Verify that the Connected number information element is network provided and delivered to the calling (served) user without any digit information.	
PCO / PO ISUP/INAP Interface parameter Values (note):	Initial Detection point No action Connect Operation / Continue operation 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 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	
Comments:		

II__SPNS_COLP_04

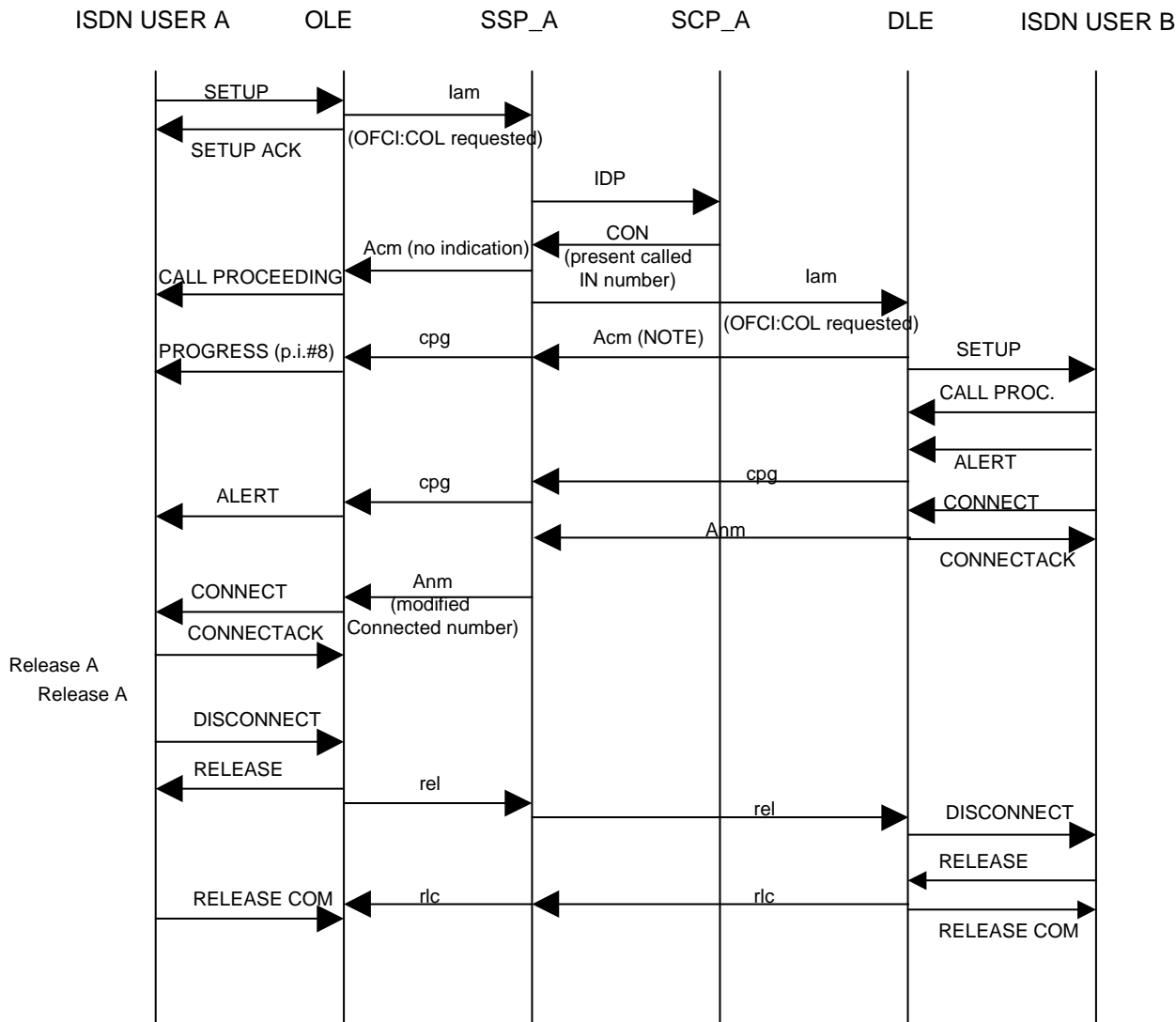


NOTE: The sending of a early ACM is optional.

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 COLP 05	Other ref.: Q.1601 clause 12.5.1	
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/COLP	
ISDN selection criteria:	Numb_Trans,	
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 ISUP/INAP Interface parameter Values (note):	<p>Initial Detection point No action</p> <p>Connect Operation / Continue operation 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.</p> <p>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.</p> <p>Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.</p>	
PCO / PO ISDN/INAP interface parameter Values (note):	<p>Initial Detection point No action</p> <p>Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.</p> <p>Receiving of a Release message Verify that the IUT can successfully release the call.</p>	
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:		

II__SPNS_COLP_05

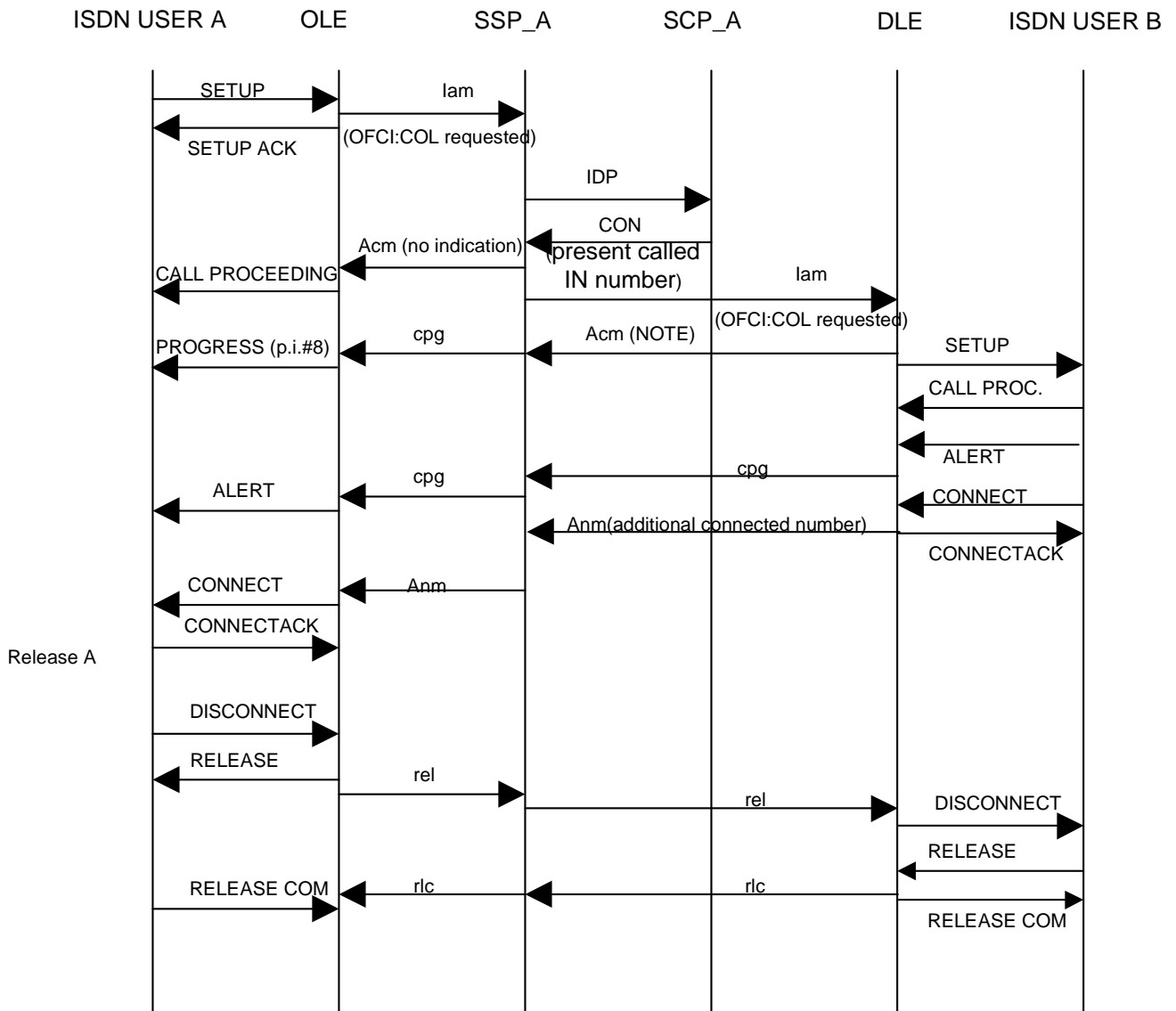


NOTE: The sending of a early ACM is optional.

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

II ___xx NS COLP 06	Other ref.: Q.1601 clause 12.5.1	
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/COLP	
ISDN selection criteria:	Numb_Trans,	
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 ISUP/INAP interface parameter Values (note):	Initial Detection point No action Connect Operation / Continue operation 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 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	
Comments:		

II__SPNS_COLP_06

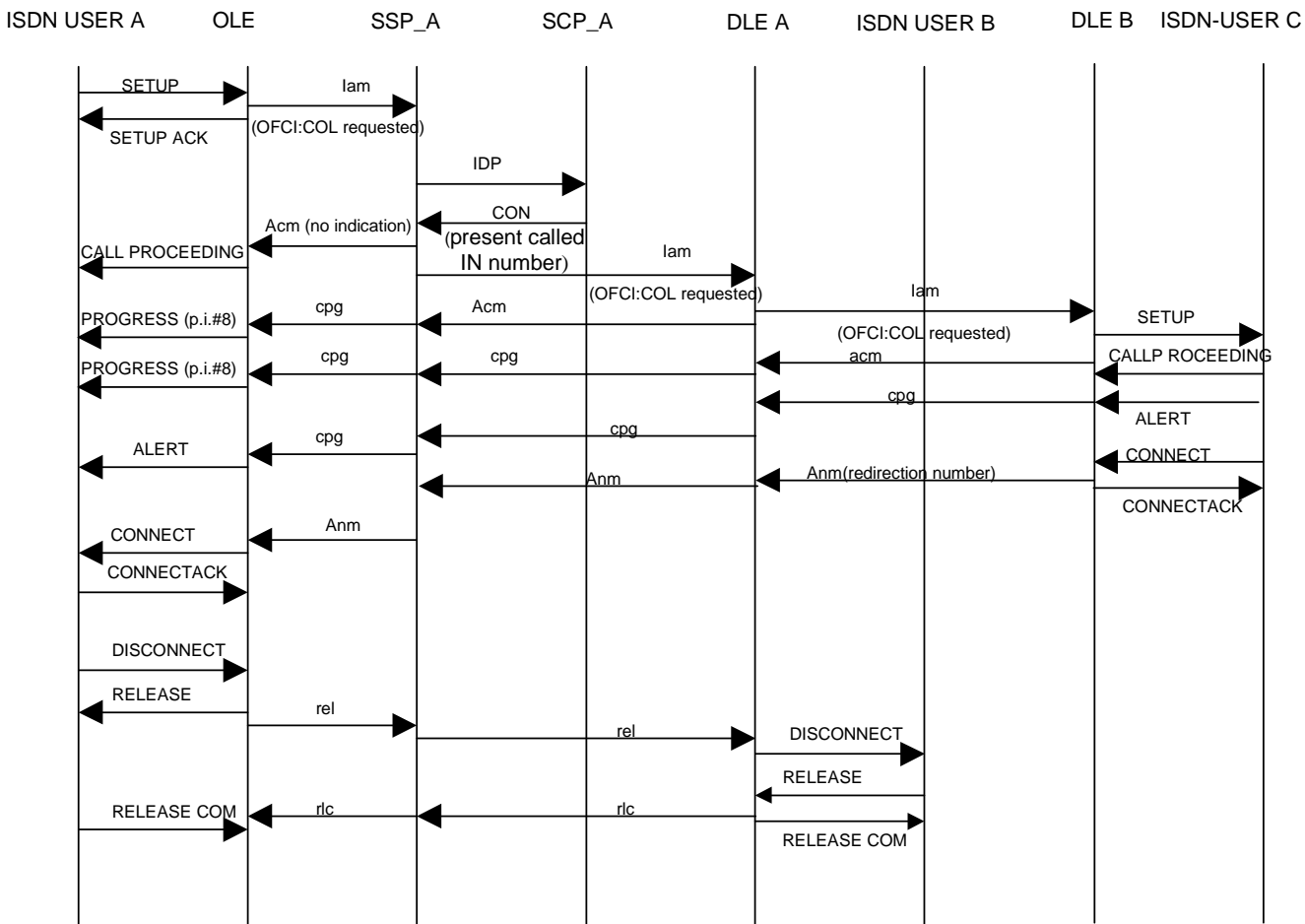


NOTE: The sending of a early ACM is optional.

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

III ___xx NS COLP 07	Other ref.: Q.1601 clause 12.5.1	
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/CFxx	
ISDN selection criteria:	Numb_Trans,	
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 ISUP/INAP Interface parameter Values (note):	Initial Detection point No action Connect Operation / Continue operation 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 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	
Comments:		

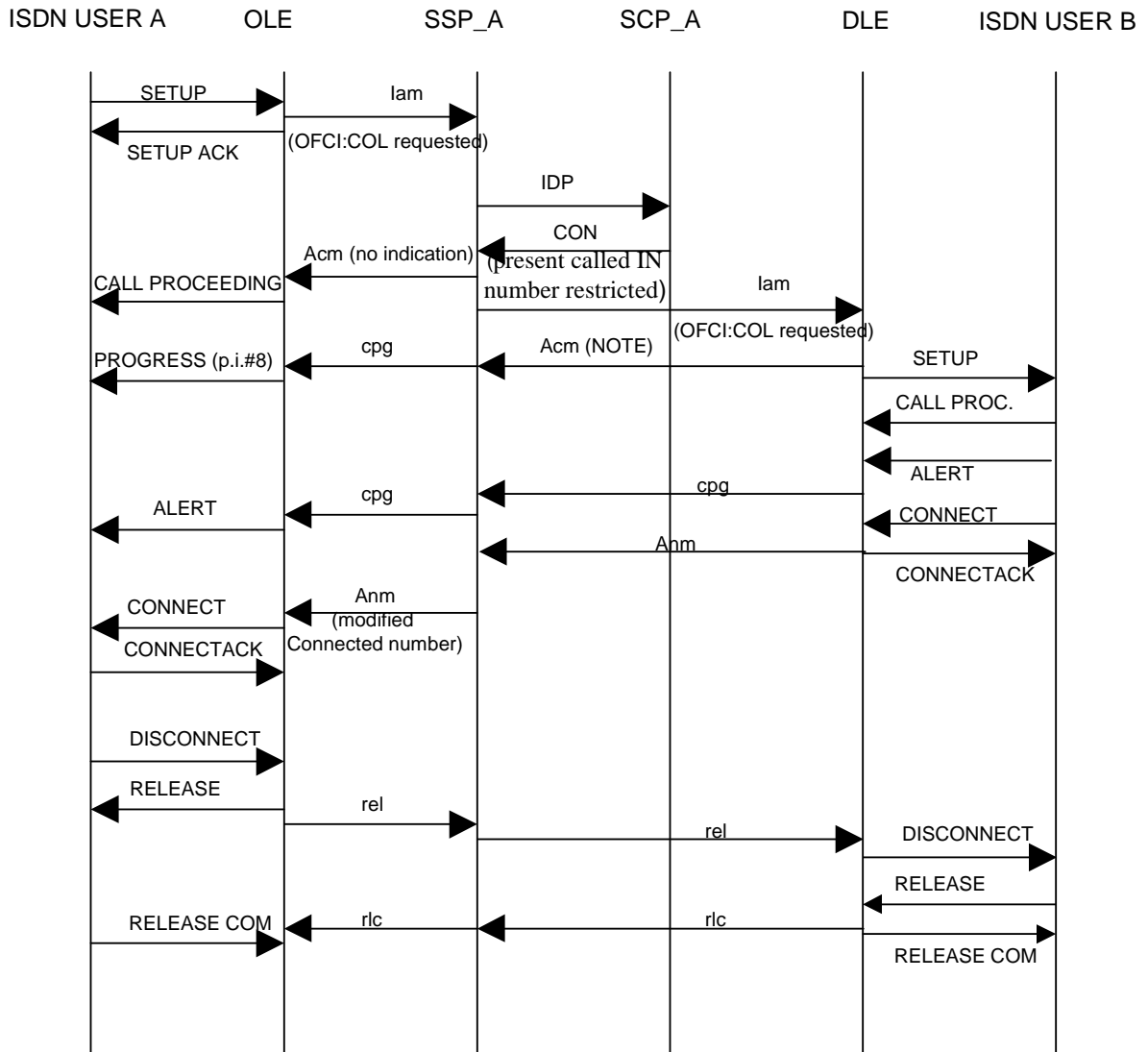
III__SPNS_COLP_07



NOTE: The sending of a early ACM is optional.

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

II ____xx NS COLP 08	Other ref.: Q.1601 clause 12.5.1	
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/COLP	
ISDN selection criteria:	Numb_Trans,	
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 possible subsequent number parameters, until the ACM message was sent.	
PCO / PO ISUP/INAP Interface parameter Values (note):	<p>Initial Detection point No action</p> <p>Connect Operation / Continue operation 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 possible subsequent number parameters, until the ACM message was sent.</p> <p>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.</p> <p>Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.</p>	
PCO / PO ISDN/INAP interface parameter Values (note):	<p>Initial Detection point No action</p> <p>Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.</p> <p>Receiving of a Release message Verify that the IUT can successfully release the call.</p>	
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:		

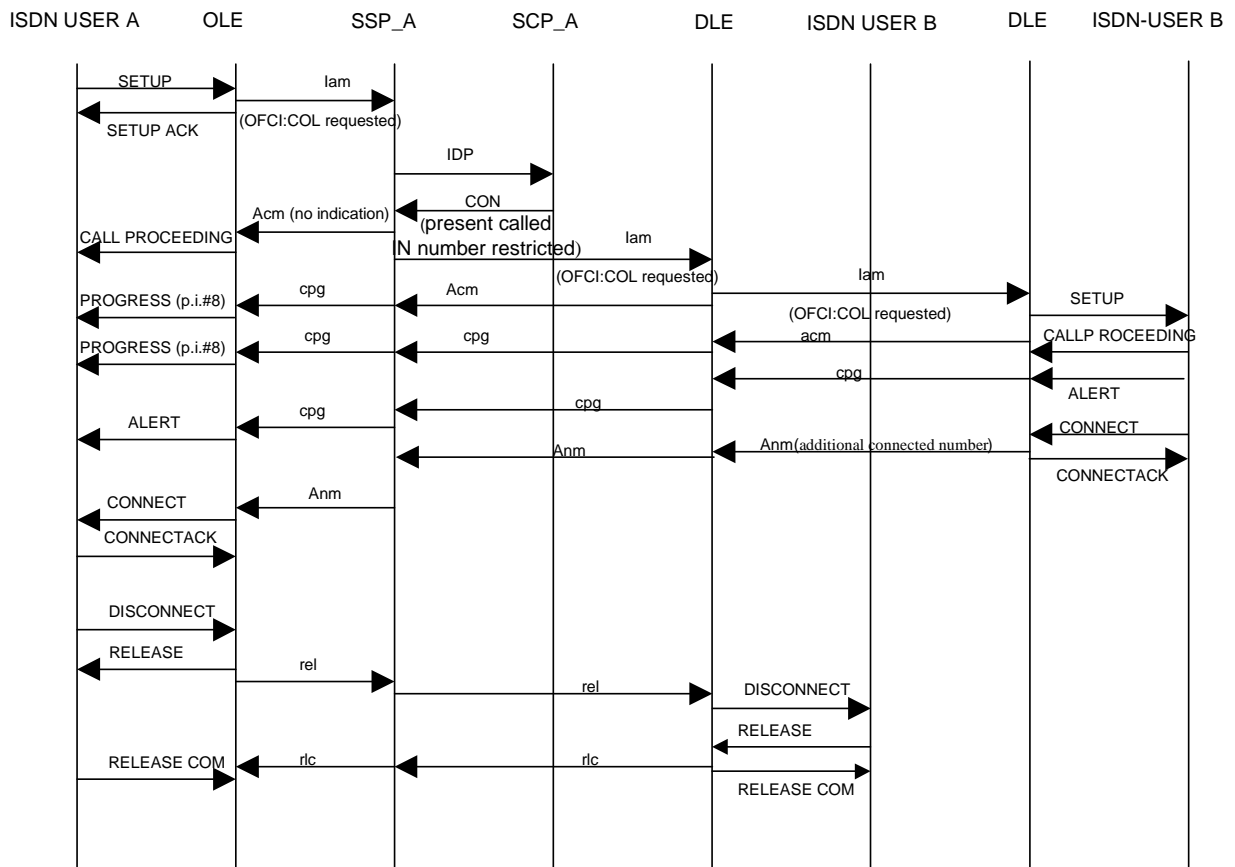


NOTE: The sending of a early ACM is optional.

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

II ___xx NS COLP 09	Other ref.: Q.1601 clause 12.5.1	
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/COLP	
ISDN selection criteria:	Numb_Trans,	
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 ISUP/INAP interface parameter Values (note):	Initial Detection point No action Connect Operation / Continue operation 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 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	
Comments:		

III__SPNS_COLP_09

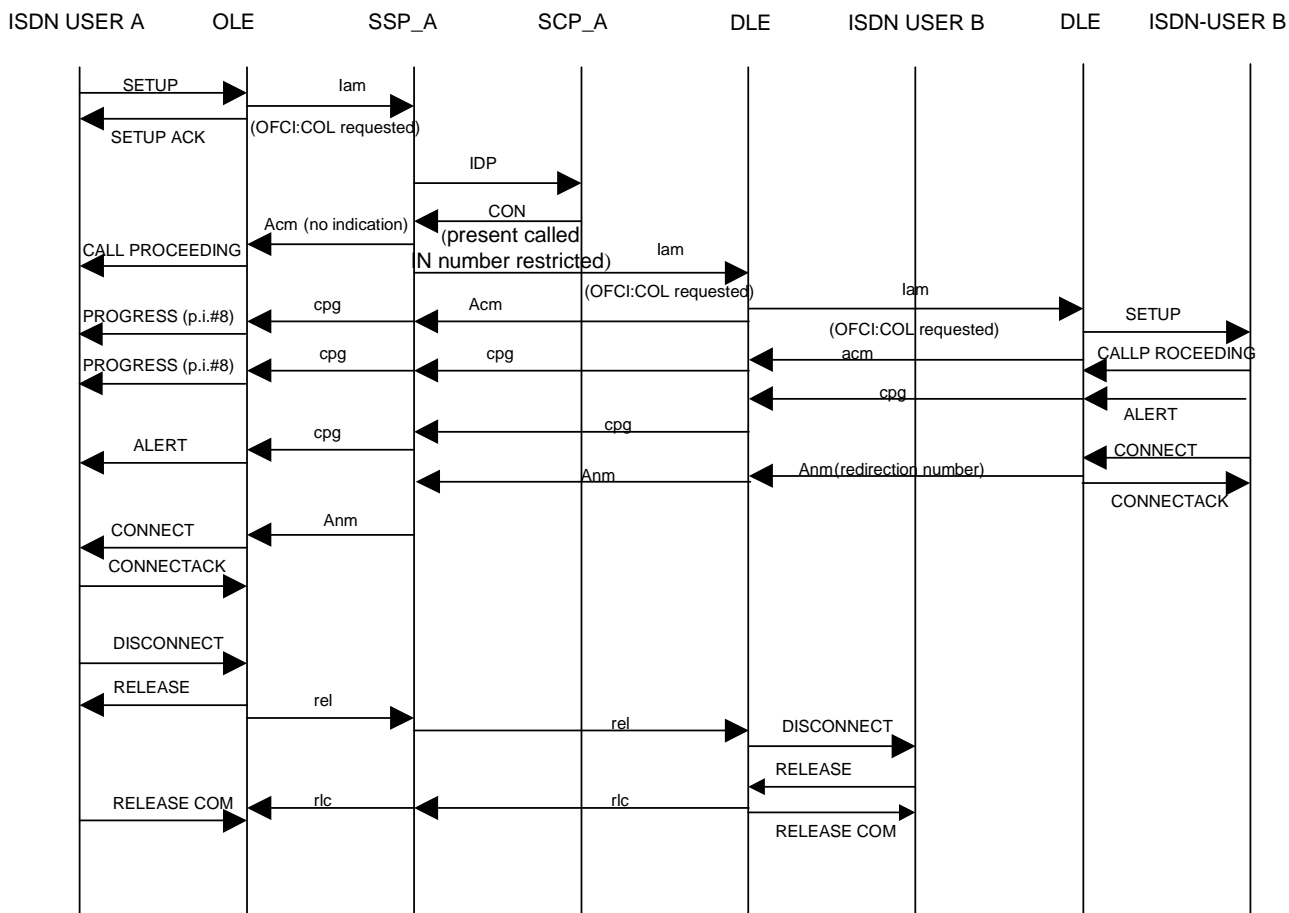


NOTE: The sending of a early ACM is optional.

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 the relevant messages

II ___xx NS COLP 10	Other ref.: Q.1601 clause 12.5.1	
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/COLP	
ISDN selection criteria:	Numb_Trans,	
Test 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 ISUP/INAP Interface parameter Values (note):	<p>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).</p> <p>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.</p> <p>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.</p> <p>Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.</p>	
PCO / PO ISDN/INAP interface parameter Values (note):	<p>Initial Detection point No action</p> <p>Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.</p> <p>Receiving of a Release message Verify that the IUT can successfully release the call.</p>	
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:		

III__SPNS_COLP_10



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 CFxx 01_xx	Other ref.: Q.1601 clause 10.1.1.1.4	
TSS reference:	ISDN to ISDN/Number translation services/Supplementary Services/CFxx	
ISDN selection criteria:	Numb_Trans,	
Test purpose:	<p>User A attempts a call to user B.</p> <p>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.</p> <p>The called user B has activated CFxx defined with the Parameter Value CFxx. Call forwarding to user C takes place.</p>	
PCO / PO ISUP/INAP Interface parameter Values (note):	<p>Initial Detection point No action</p> <p>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. 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.</p> <p>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.</p> <p>Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.</p>	
PCO / PO ISDN/INAP interface parameter Values (note):	<p>Initial Detection point No action</p> <p>Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.</p> <p>Receiving of a Release message Verify that the IUT can successfully release the call.</p>	
ISDN parameter values:	<p>BC = BC_ID Synchronous/ asynchronous mode: MODE user rate: USER_RATE</p> <p>LLC = BC_ID Synchronous/ asynchronous mode: MODE user rate: USER_RATE</p> <p>HLC = HLC_ID</p>	
Comments:		

III_SPNS_CFxx_01_CFU

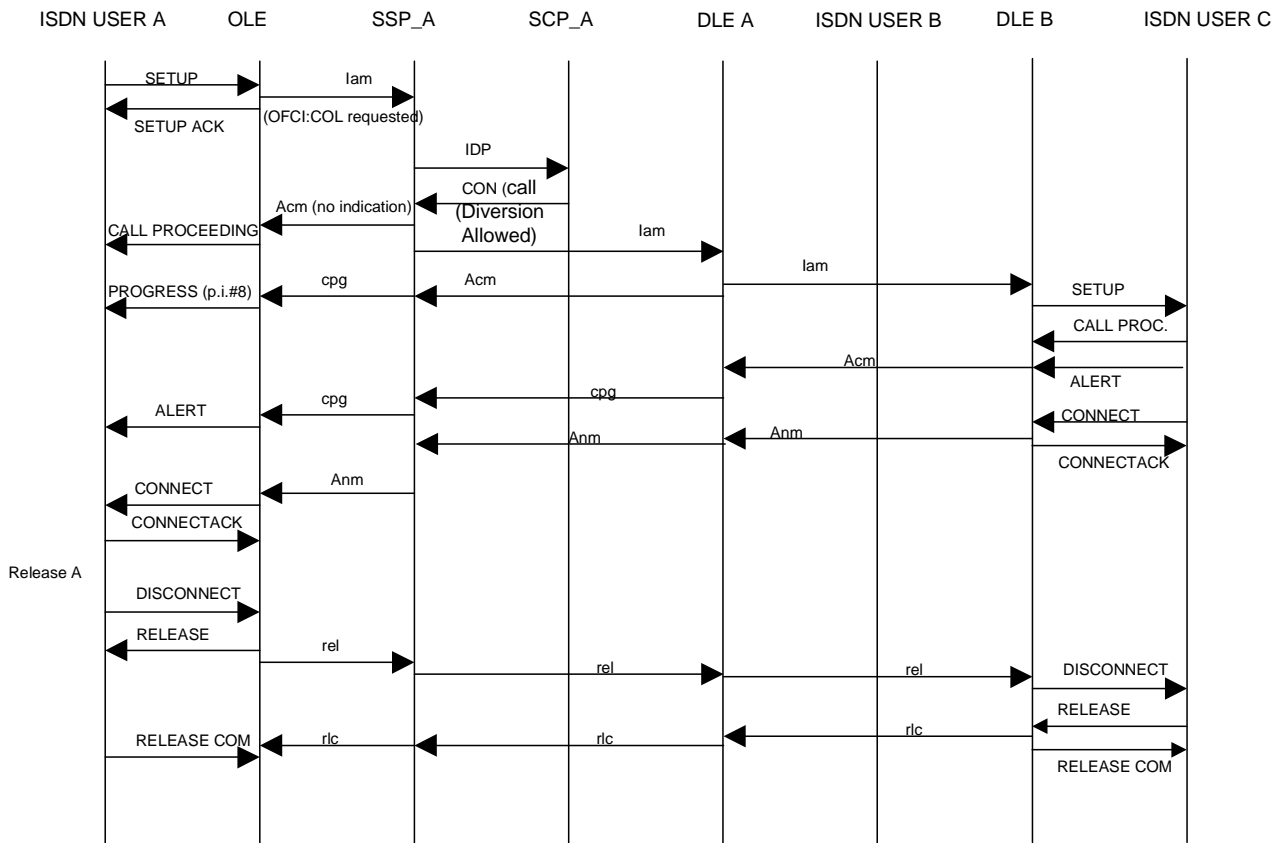


Figure 112: Number translation services; Supplementary Service CFU with the "callDiversionAllowed" parameter received in CON Message

IIG_SPNS_CFx_x_01_CFB

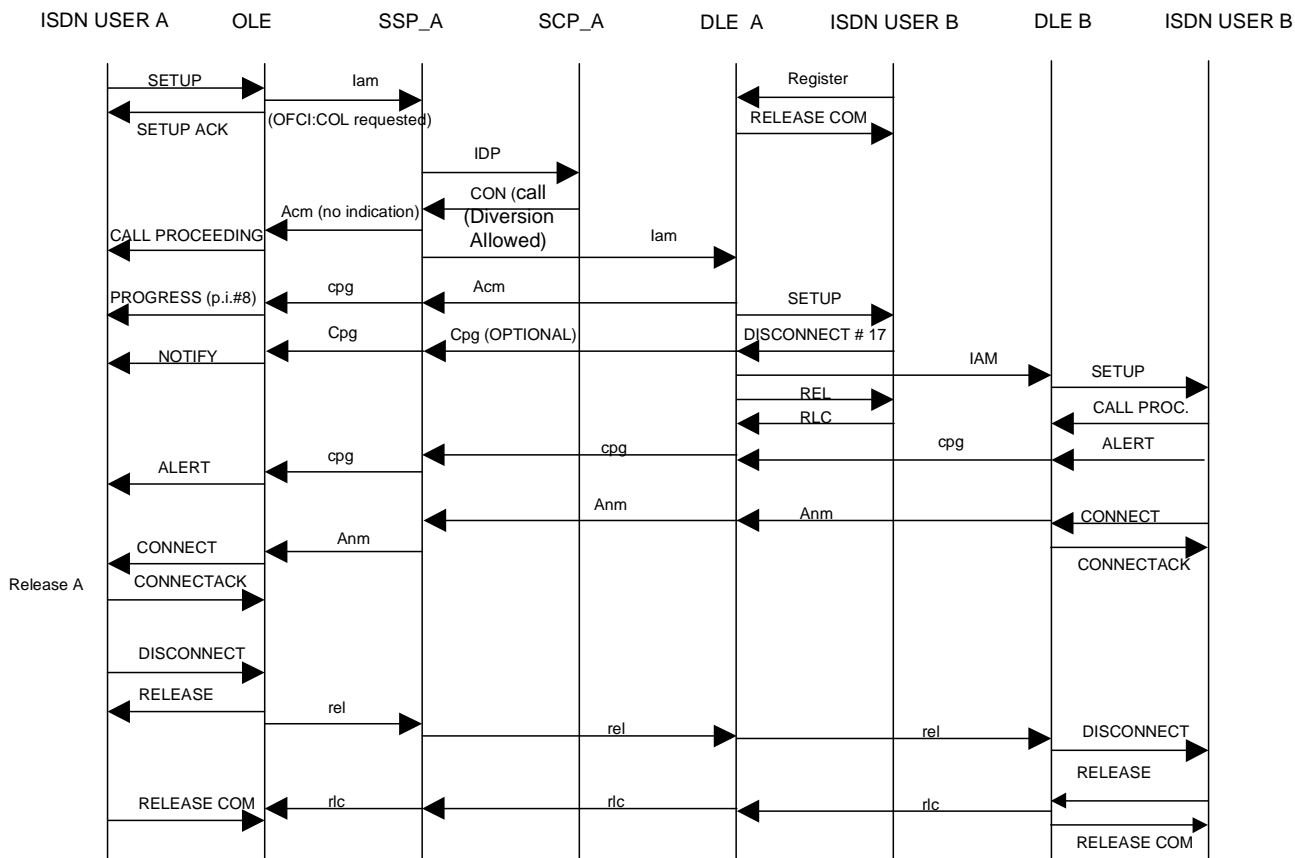


Figure 113: Number translation services; Supplementary Service CFB with the "callDiversionAllowed" parameter received in CON Message

II____xx NS CFxx 02	Other ref.: Q.1601 clause 12.1	
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/CFxx	
ISDN selection criteria:	Numb_Trans,	
Test purpose:	<p>User A attempts a call to number B. 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:</p> <ul style="list-style-type: none"> a) generic notification indicator parameter with "call is diverting"; b) call diversion information parameter; c) redirection number parameter; d) redirection number restriction parameter. 	
PCO / PO ISUP/INAP Interface parameter Values (note):	<p>Initial Detection point No action</p> <p>Connect Operation If "suppress information" was received in the INAP serviceInteractionIndicatorsTwo (call diversion notification treatment indicator), then the following parameters shall be discarded, if received:</p> <ul style="list-style-type: none"> a) generic notification indicator parameter with "call is diverting"; b) call diversion information parameter; c) redirection number parameter; d) redirection number restriction parameter. <p>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.</p> <p>Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.</p>	
PCO / PO ISDN/INAP interface parameter Values (note):	<p>Initial Detection point No action</p> <p>Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.</p> <p>Receiving of a Release message Verify that the IUT can successfully release the call.</p>	
ISDN parameter values:	<p>BC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE</p> <p>LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE</p> <p>HLC = HLC_ID</p>	
Comments:		

III_SPNS_CFxx_02_CFU

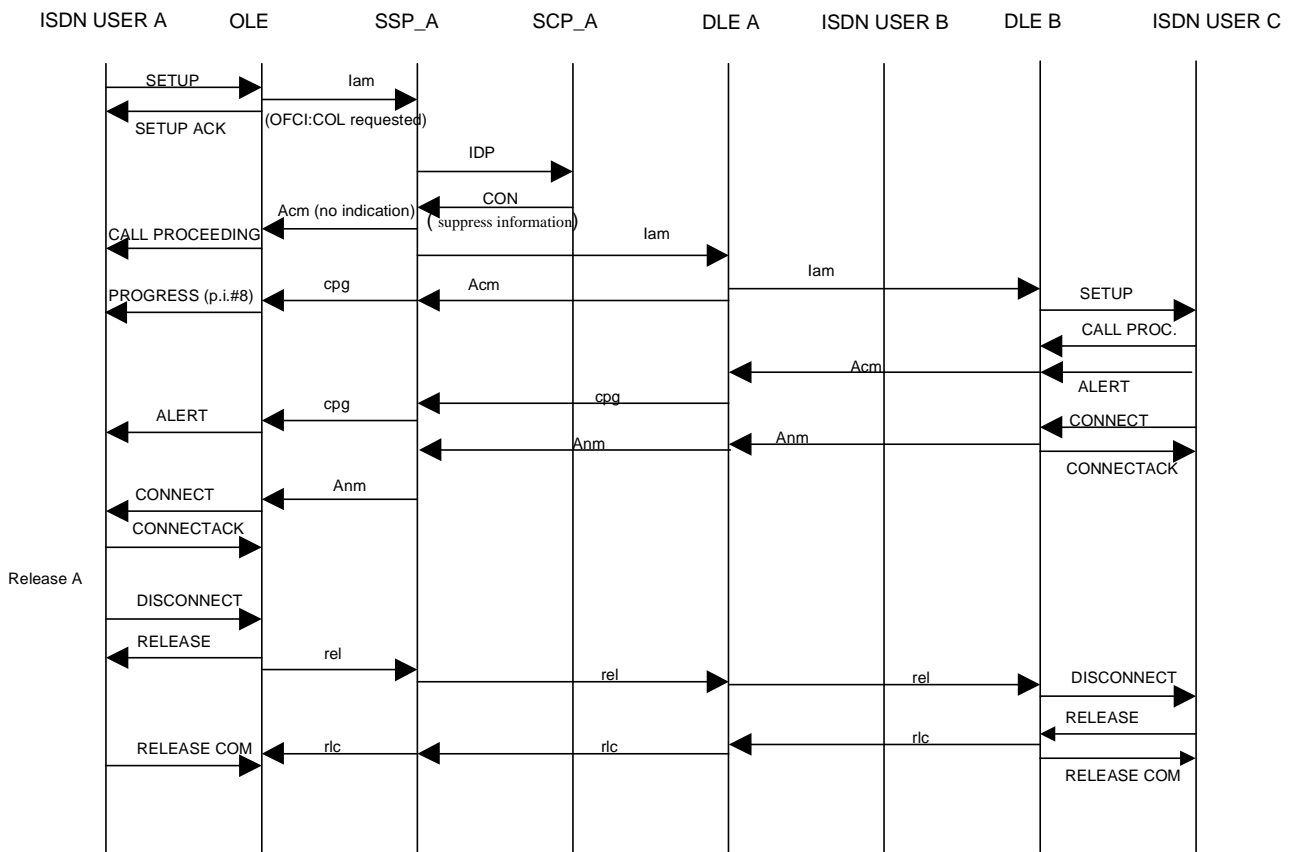


Figure 114: Number translation services; Supplementary Service CFU "suppress information" was received in the INAP serviceInteractionIndicatorsTwo

III_SPNS_CFxx_02_CFB

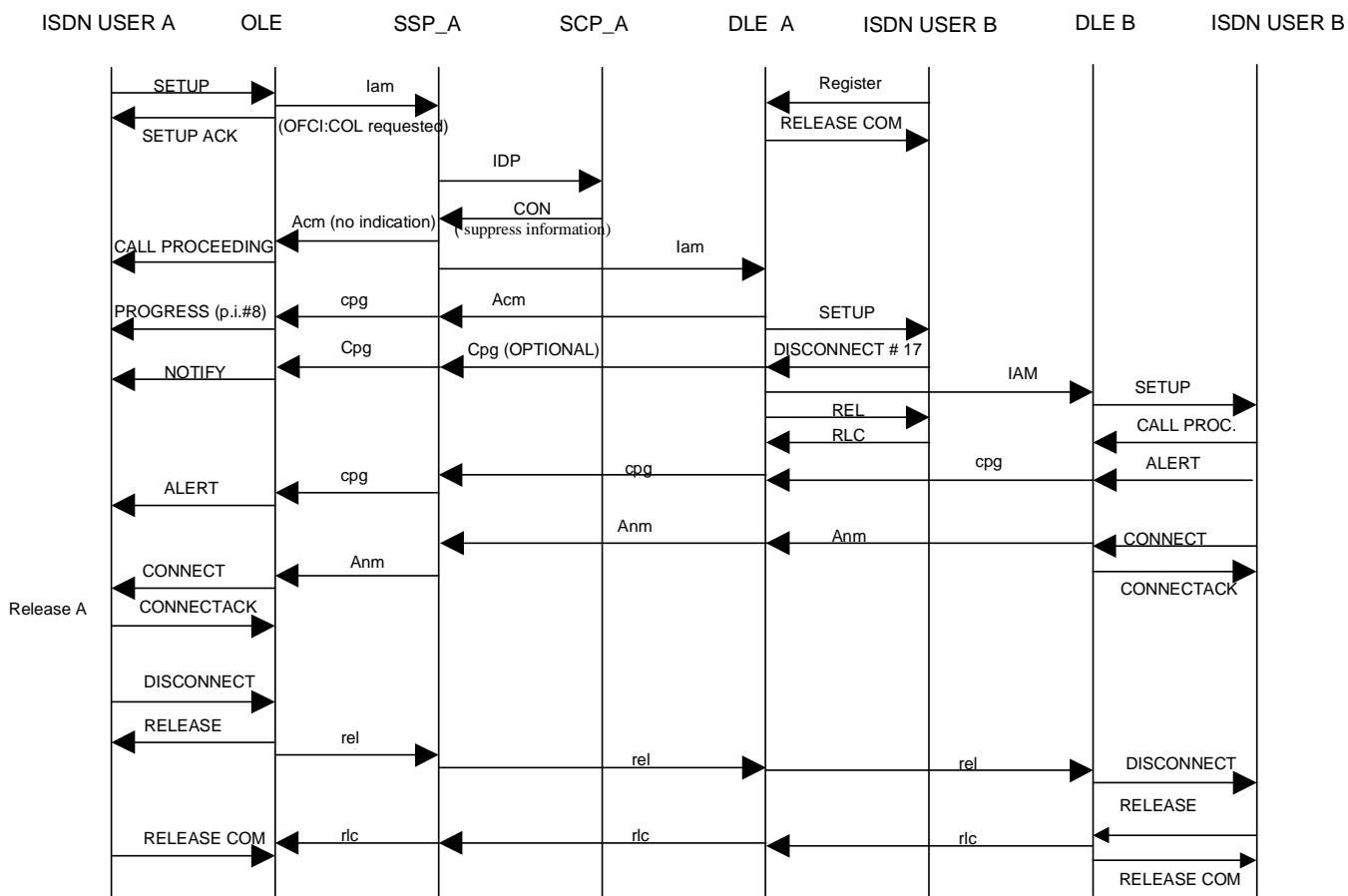


Figure 115: Number translation services; Supplementary Service CFB "suppress information" was received in the INAP serviceInteractionIndicatorsTwo

III__SPNS_CFx_x_02_CFNR

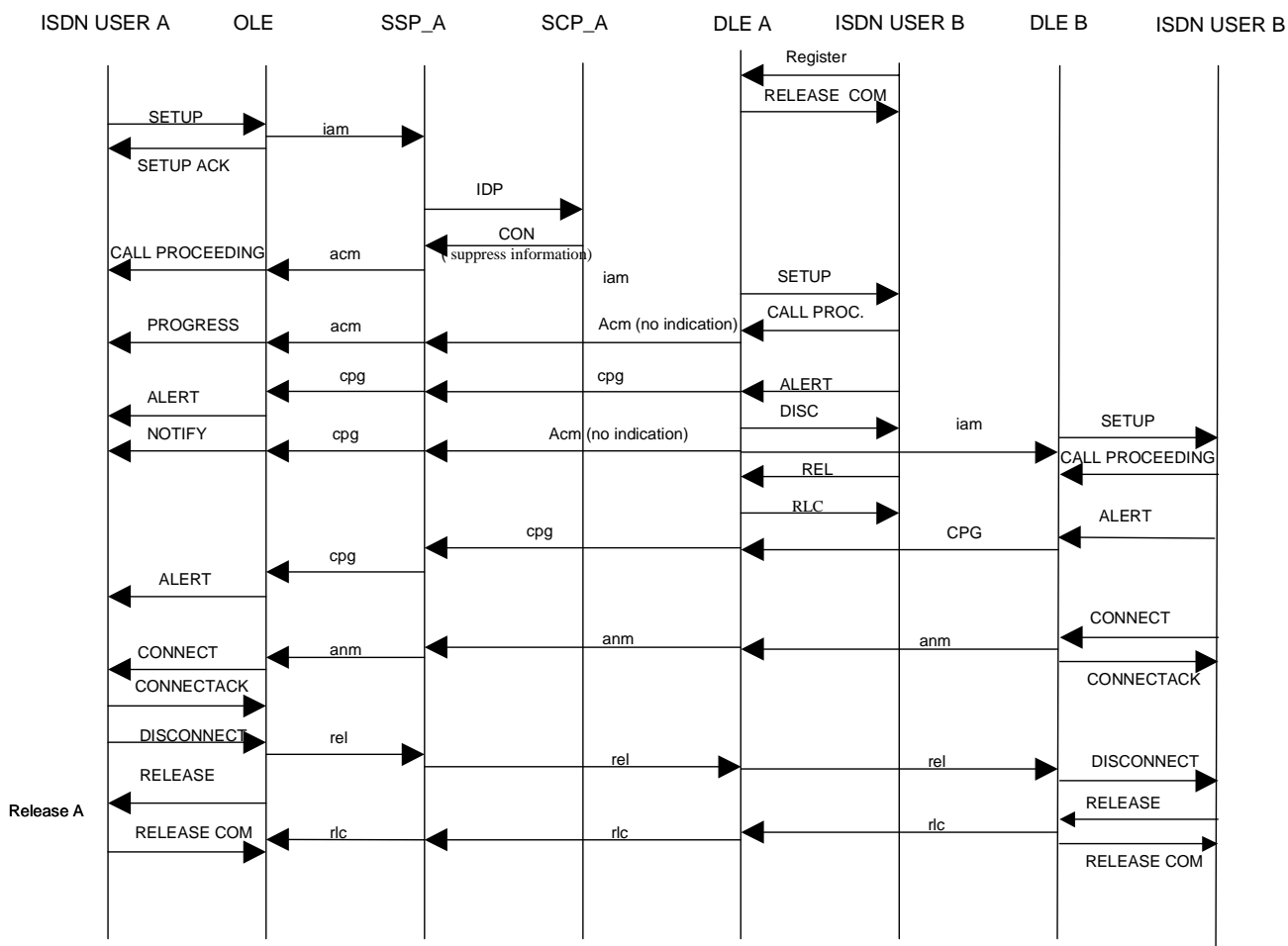


Figure 116: Number translation services; Supplementary Service CFNR"suppress information" was received in the INAP serviceInteractionIndicatorsTwo

III__xx NS CFU 01	Other ref.: 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 criteria:	Numb_Trans,	
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 ISUP/INAP Interface parameter Values (note):	Initial Detection point No action 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. 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 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	
Comments:		

III_SPNS_CFU_01

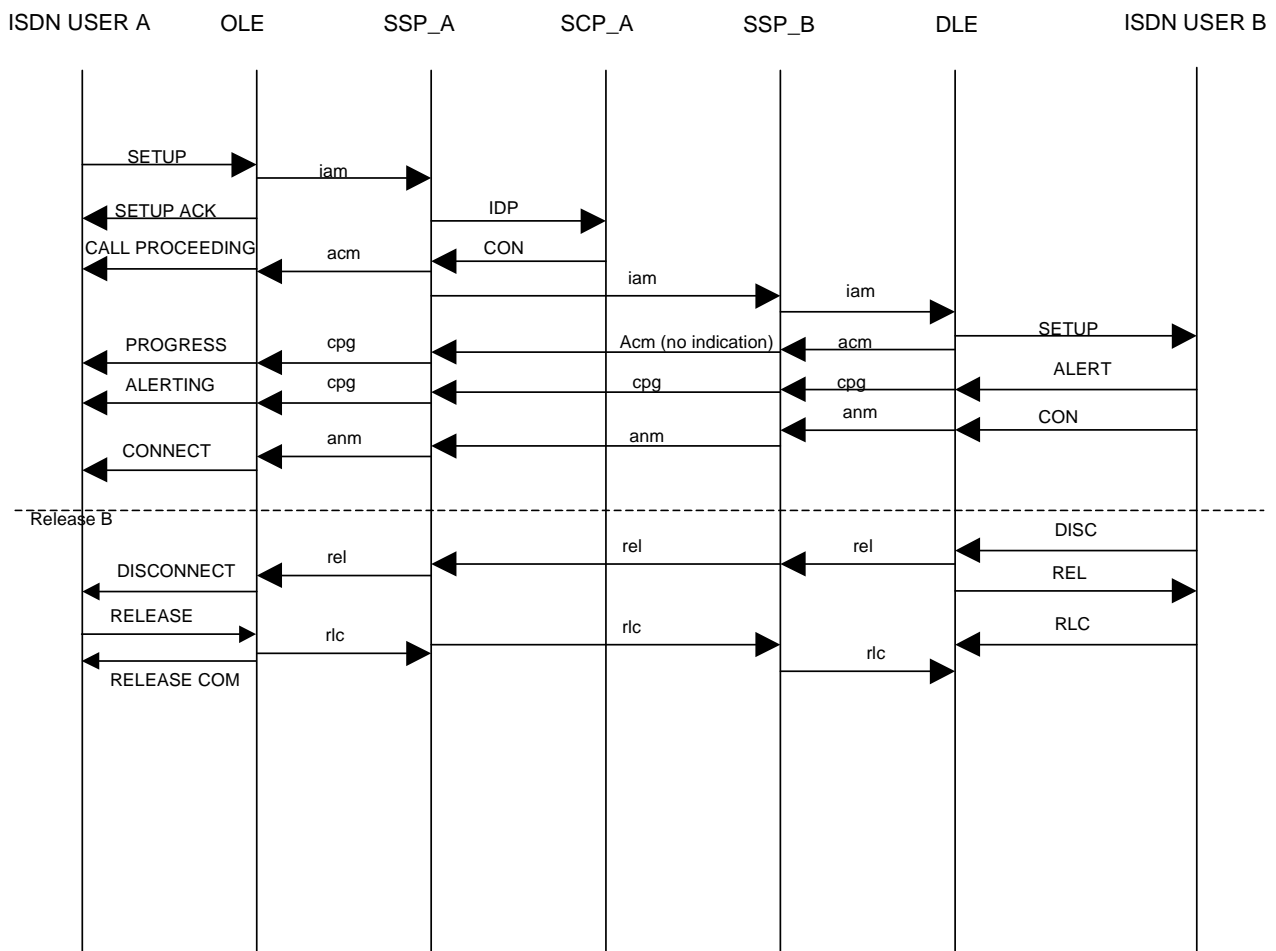


Figure 117: Number translation services; Supplementary Service CFU "call diversion not allowed" information" was received in the INAP serviceInteractionIndicatorsTwo

II____xx NS CFB 01	Other ref.: 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 criteria:	Numb_Trans,	
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 ISUP/INAP Interface parameter Values (note):	Initial Detection point No action Connect Operation / Continue operation 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 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	
Comments:		

II ___xx NS CFNR 01	Other ref.: Q.1601 clauses 10.1.1.1.1.4 and 12.1.2.1	
TSS reference:	ISDN to ISDN/Number translation services/Supplementary Services/CF	
ISDN selection criteria:	Numb_Trans,	
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 ISUP/INAP Interface parameter Values (note):	<p>Initial Detection point No action</p> <p>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. 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.</p> <p>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.</p> <p>Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.</p>	
PCO / PO ISDN/INAP interface parameter Values (note):	<p>Initial Detection point No action</p> <p>Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.</p> <p>Receiving of a Release message Verify that the IUT can successfully release the call.</p>	
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:		

II__xx NS CD 01	Other ref.: Q.1601 clauses 10.1.1.1.1.4 and 12.1.2.1	
TSS reference:	ISDN to ISDN/Number translation services/Supplementary Services/CF	
ISDN selection criteria:	Numb_Trans,	
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 ISUP/INAP Interface parameter Values (note):	<p>Initial Detection point No action</p> <p>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. 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.</p> <p>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.</p> <p>Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.</p>	
PCO / PO ISDN/INAP interface parameter Values (note):	<p>Initial Detection point No action</p> <p>Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.</p> <p>Receiving of a Release message Verify that the IUT can successfully release the call.</p>	
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:		

II____xx NS_ CONF 01	Other ref.: Q.1601 clause 12.4	
TSS reference:	ISDN to ISDN/Number translation services/Supplementary Services/CONF	
ISDN selection criteria:	Numb_Trans,	
Test purpose:	<p>User A attempts a call to user B.</p> <p>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.</p> <p>Ensure that user B can establish a conference call with user A and MS C.</p>	
PCO / PO ISUP/INAP Interface parameter Values (note):	<p>Initial Detection point No action</p> <p>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. If Connect Operation applies an ACM message is sent to the preceding exchange.</p> <p>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.</p> <p>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.</p> <p>Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.</p>	
PCO / PO ISDN/INAP interface parameter Values (note):	<p>Initial Detection point No action</p> <p>Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.</p> <p>Receiving of a Release message Verify that the IUT can successfully release the call.</p>	
ISDN parameter values:	<p>BC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE</p> <p>LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE</p> <p>HLC = HLC_ID</p>	
Comments:		

II ___xx NS CONF 02	Other ref.: Q.1601	
TSS reference:	ISDN to ISDN/Number translation services/Supplementary Services/CONF	
ISDN selection criteria:	Numb_Trans,	
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 ISUP/INAP interface parameter Values (note):	Initial Detection point No action 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. 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.	
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	
Comments:		

II ___xx NS CONF 03	Other ref.: Q.1601	
TSS reference:	ISDN to ISDN/Number translation services/Supplementary Services/CONF	
ISDN selection criteria:	Numb_Trans,	
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 ISUP/INAP Interface parameter Values (note):	<p>Initial Detection point No action</p> <p>Connect Operation / Continue operation 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.</p> <p>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.</p> <p>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.</p> <p>Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.</p>	
PCO / PO ISDN/INAP interface parameter Values (note):	<p>Initial Detection point No action</p> <p>Sending of backward messages Verify that the IUT can successfully map the backward messages CALL PROCEEDING, ALERTING, PROGRESS or CONNECT to the originating side.</p> <p>Receiving of a Release message Verify that the IUT can successfully release the call.</p>	
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:		

II ___xx NS CONF 04	Other ref.: Q.1601	
TSS reference:	ISDN to ISDN/Number translation services/Supplementary Services/CONF	
ISDN selection criteria:	Numb_Trans,	
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. Ensure that user A can not establish a conference call with user B and user C.	
PCO / PO ISUP/INAP Interface parameter Values (note):	Initial Detection point No action Connect Operation / Continue operation 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 ISDN/INAP interface parameter Values (note):	Initial Detection point No action Sending of backward messages No action Receiving of a Release message 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:		

II ___xx NS CCBS 01	Other ref.: Q.1601 clause 12	
TSS reference:	ISDN to ISDN/Number translation services/Supplementary Services/CCBS	
ISDN selection criteria:	Numb_Trans,	
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 ISUP/INAP Interface parameter Values (note):	Initial Detection point No action 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. 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 ISDN/INAP interface parameter Values (note):	Initial Detection point No action Sending of backward messages No action Receiving of a Release message 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:		

II ___xx NS CCBS 02	Other ref.: Q.1601 clause 12	
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/CCBS	
ISDN selection criteria:	Numb_Trans,	
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 ISUP/INAP Interface parameter Values (note):	Initial Detection point No action 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. 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 ISDN/INAP interface parameter Values (note):	Initial Detection point No action Sending of backward messages No action Receiving of a Release message 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:		

II ___xx NS UUS1i 01	Other ref.: Q.1601 clause 10.1.3.2.1	
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/UUS1	
ISDN selection criteria:	Numb_Trans,	
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 UUS1 message should not be sent to user B.	
PCO / PO ISUP/INAP Interface parameter Values (note):	Initial Detection point 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. 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 ISDN/INAP interface parameter Values (note):	Initial Detection point No action Sending of backward messages No action Receiving of a Release message 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:		

II ___xx NS UUS1e 02	Other ref.: Q.1601 clause 10.1.3.2.1	
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/UUS1	
ISDN selection criteria:	Numb_Trans,	
Test purpose:	User A is sending a UUS1e message to user B. If the user-to-user service 1 was explicitly requested as "not essential", the user-to-user indicators parameter will be discarded 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 ISUP/INAP Interface parameter Values (note):	Initial Detection point If the user-to-user service 1 was explicitly requested as "not essential", the user-to-user indicators parameter will be discarded from the IAM and service 1 will be indicated as "not provided" in the ACM. 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 ISDN/INAP interface parameter Values (note):	Initial Detection point No action Sending of backward messages No action Receiving of a Release message 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:		

II ___xx NS UUS1e 03	Other ref.: Q.1601 clause 10.1.3.2.1	
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/UUS1	
ISDN selection criteria:	Numb_Trans,	
Test purpose:	User A is sending a UUS1e message to user B. If the user-to-user service 1 was explicitly requested as "essential", the call is cleared with cause value #29 and diagnostics in the REL message.	
PCO / PO ISUP/INAP Interface parameter Values (note):	Initial Detection point If the user-to-user service 1 was explicitly requested as "essential", the call is cleared with cause value #29 and diagnostics in the REL message. 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 If the user-to-user service 1 was explicitly requested as "essential", the call is cleared with cause value #29 and diagnostics in the REL message. 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:		

II ___xx NS UUS2 01	Other ref.: Q.1601 clause 10.1.3.2.1	
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/UUS2	
ISDN selection criteria:	Numb_Trans,	
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. The UUS2 message should not be sent to user B.	
PCO / PO ISUP/INAP Interface parameter Values (note):	Initial Detection point 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. 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 ISDN/INAP interface parameter Values (note):	Initial Detection point No action Sending of backward messages No action Receiving of a Release message 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:		

II ___xx NS US2e 02	Other ref.: Q.1601 clause 10.1.3.2.1	
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/UUS2	
ISDN selection criteria:	Numb_Trans,	
Test purpose:	User A is sending a UUS2 message to user B. If the user-to-user service 2 was explicitly requested as "essential", the call is cleared with cause value #29 and diagnostics in the REL message.	
PCO / PO ISUP/INAP Interface parameter Values (note):	Initial Detection point If the user-to-user service 2 was explicitly requested as "essential", the call is cleared with cause value #29 and diagnostics in the REL message. 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 If the user-to-user service 1 was explicitly requested as "essential", the call is cleared with cause value #29 and diagnostics in the REL message. 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:		

II ___xx NS UUS3 01	Other ref.: Q.1601 clause 10.1.3.2.1	
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/UUS3	
ISDN selection criteria:	Numb_Trans,	
Test purpose:	User A is sending a UUS3 message to user B. The <i>Service request is the during call setup</i> . If the user-to-user service 3 was explicitly requested as "not essential", the user-to-user indicators parameter will be discarded from the IAM and service 3 will be indicated as "not provided" in the ACM. The UUS3 message should not be sent to user B.	
PCO / PO ISUP/INAP Interface parameter Values (note):	Initial Detection point If the user-to-user service 3 was explicitly requested as "not essential", the user-to-user indicators parameter will be discarded from the IAM and service 3 will be indicated as "not provided" in the ACM. 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 ISDN/INAP interface parameter Values (note):	Initial Detection point No action Sending of backward messages No action Receiving of a Release message 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:		

II ___xx NS UUS3 02	Other ref.: Q.1601 clause 10.1.3.2.1	
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/UUS3	
ISDN selection criteria:	Numb_Trans,	
Test purpose:	User A is sending a UUS3 message to user B. The <i>Service request is the during call setup</i> . 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 ISUP/INAP Interface parameter Values (note):	Initial Detection point If the user-to-user service 1 was explicitly requested as "essential", the call is cleared with cause value #29 and diagnostics in the REL message. 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 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. 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:		

II ___xx NS UUS3 03	Other ref.: Q.1601 clause 10.1.3.2.1	
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/UUS3	
ISDN selection criteria:	Numb_Trans,	
Test purpose:	<p>User A is sending a UUS3 message to user B. The <i>service request is after the call setup.</i></p> <p>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.</p> <p>The UUS3 message should not be sent to user B.</p>	
PCO / PO ISUP/INAP Interface parameter Values (note):	<p>Initial Detection point 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.</p> <p>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.</p> <p>Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.</p>	
PCO / PO ISDN/INAP interface parameter Values (note):	<p>Initial Detection point No action</p> <p>Sending of backward messages No action</p> <p>Receiving of a Release message No action</p>	
ISDN parameter values:	<p>BC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE</p> <p>LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE</p> <p>HLC = HLC_ID</p>	
Comments:		

II____xx NS MCID 01	Other ref.: Q.1601 clause 12.7	
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/MCID	
ISDN selection criteria:	Numb_Trans,	
Test purpose:	<p>Ensure that if the MCID is invoked by the called user in the active call state, the call is registered.</p> <p>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 party identification parameter, if available, into the IRS message.</p>	
PCO / PO ISUP/INAP Interface parameter Values (note):	<p>Initial Detection point 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 party identification parameter, if available, into the IRS message.</p> <p>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.</p> <p>Receiving of Release message Verify that the IUT can successfully release the call like an ordinary transit exchange.</p>	
PCO / PO ISDN/INAP interface parameter Values (note):	<p>Initial Detection point No action</p> <p>Sending of backward messages No action</p> <p>Receiving of a Release message No action</p>	
ISDN parameter values:	<p>BC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE</p> <p>LLC = BC_ID synchronous/ asynchronous mode: MODE user rate: USER_RATE</p> <p>HLC = HLC_ID</p>	
Comments:		

II__xx NS ECT 01	Other ref.: Q.1601 clause 12.6.1	
TSS reference:	ISDN to ISDN/ Number translation services/Supplementary Services/ECT	
ISDN selection criteria:	Numb_Trans,	
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 ISUP/INAP Interface parameter Values (note):	Initial Detection point If "suppress information" was received in the INAP serviceInteractionIndicatorsTwo (call transfer notification treatment indicator), then the following parameter shall be discarded, if received: <ul style="list-style-type: none"> 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 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 No action Receiving of a Release message 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:		

Annex A (normative): GSM SETUP_PAR_ID parameter values

Values for test purposes GG_xx N_xx	
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
VA_03	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 HLC_ID = -
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 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 USER_RATE: 1,2 kbit/s HLC_ID = -

Values for test purposes GG_xx 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 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 TCH_FX_X: 4,8
VA_12	GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via 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 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 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 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

Values for test purposes GG_xx 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 TCH_FX_X: 14,4
VA_18	GSM_BC_ID = 3,1 kHz audio ex PLMN, voice band via 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 GG_xx 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 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 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 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 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 MODE: - G_USER_RATE: - LLC_ID = - MODE: - USER_RATE: - HLC_ID = Facsimile G2/G3

Annex B (normative): ISDN SETUP_PAR_ID parameter values

Values for test purposes IG <u>xx N_xx</u> and II <u>xx N_xx</u>	
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
VA_03	BC_ID = 3,1 kHz audio, voice band via modem 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 MODE: synchronous USER_RATE: 4,8 kbit/s LLC_ID = 3,1 kHz audio MODE: synchronous USER_RATE: 4,8 kbit/s 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 <u>xx N_xx</u> and II <u>xx N_xx</u>	
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 = -
VA_11	BC = 3,1 kHz audio, voice band data via modem, MODE: synchronous USER_RATE: 14,4 kbit/s
VA_12	BC_ID = 3,1 kHz audio, voice band via modem 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 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 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 USER_RATE: 19,2 kbit/s
VA_20	BC_ID = 3,1 kHz audio, voice band via modem MODE: asynchronous USER_RATE: 28,8 kbit/s
VA_21	BC_ID = 3,1 kHz audio, voice band via modem MODE: asynchronous USER_RATE: 34,4 kbit/s
VA_22	BC_ID = 3,1 kHz audio, voice band via modem MODE: asynchronous USER_RATE: 48,0 kbit/s
VA_23	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 IG <u>xx N_xx</u> and II <u>xx N_xx</u>	
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 = -
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 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 = -
VA_29	BC_ID = UDI 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

Annex C (normative): Interface parameter values

PCO / PO ISUP/CAP. Interface parameter Values for test purpose GG__xx N_ 01				
	ISUP message IAM	CAP operation InitialIDP	CAP operation ContinueWithArgument	ISUP message IAM
VA_01	IAM_PAR_ID = Called party number [<i>Nature of address indicator Internal Network Number indicator Numbering plan indicator</i>]	InitialIDP_PAR_ID = calledPartyNumber	-	IAM_PAR_ID = Called party number [<i>Nature of address indicator Internal Network Number indicator Numbering plan indicator</i>]
VA_02	IAM_PAR_ID = Calling party number [<i>Nature of address indicator Number Incomplete indicator (NI) Numbering plan indicator Address presentation restricted indicator Screening indicator</i>]	InitialIDP_PAR_ID =callingPartyNumber	-	IAM_PAR_ID = Calling party number [<i>Nature of address indicator Number Incomplete indicator (NI) Numbering plan indicator Address presentation restricted indicator Screening indicator</i>]
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 [<i>Odd/even indicator Nature of address indicator Internal Network Number indicator Numbering plan indicator Address presentation restricted indicator Screening indicator Address signals]</i>	InitialIDP_PAR_ID =locationNumber	-	IAM_PAR_ID = Location number [<i>Odd/even indicator Nature of address indicator Internal Network Number indicator Numbering plan indicator Address presentation restricted indicator Screening indicator Address signals]</i>
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)	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"

PCO / PO ISUP/CAP. Interface parameter Values for test purpose GG_xx N_01				
	ISUP message IAM	CAP operation InitialIDP	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 = RedirectionInformation	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 GG_xx N_02				
	ISUP message IAM	CAP operation InitialIDP	CAP operation ContinueWithArgument	ISUP message IAM
VA_01	IAM_PAR_ID = Called party number [<i>Nature of address indicator</i> <i>Internal Network Number indicator</i> <i>Numbering plan indicator</i>]	InitialIDP_PAR_ID = calledPartyNumber	-	IAM_PAR_ID = Called party number [<i>Nature of address indicator</i> <i>Internal Network Number indicator</i> <i>Numbering plan indicator</i>]
VA_02	IAM_PAR_ID = Calling party number [<i>Nature of address indicator</i> <i>Number Incomplete indicator (NI)</i> <i>Numbering plan indicator</i> <i>Address presentation restricted indicator</i> <i>Screening indicator</i>]	InitialIDP_PAR_ID = callingPartyNumber	-	IAM_PAR_ID = Calling party number [<i>Nature of address indicator</i> <i>Number Incomplete indicator (NI)</i> <i>Numbering plan indicator</i> <i>Address presentation restricted indicator</i> <i>Screening indicator</i>]
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

PCO / PO ISUP/CAP. Interface parameter Values for test purpose GG_xx N_02				
	ISUP message IAM	CAP operation InitialIDP	CAP operation ContinueWithArgument	ISUP message IAM
VA_05	IAM_PAR_ID = Location number [<i>Odd/even indicator</i> <i>Nature of address indicator</i> <i>Internal Network Number indicator</i> <i>Numbering plan indicator</i> <i>Address presentation restricted indicator</i> <i>Screening indicator</i> <i>Address signals</i>]	InitialIDP_PAR_ID =locationNumber	-	IAM_PAR_ID = Location number [<i>Odd/even indicator</i> <i>Nature of address indicator</i> <i>Internal Network Number indicator</i> <i>Numbering plan indicator</i> <i>Address presentation restricted indicator</i> <i>Screening indicator</i> <i>Address signals</i>]
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

PCO / PO ISUP/CAP Interface parameter Values for test purpose GG__xx N_03 to GG__xx N_05, GG__xx I_01 to GG__xx I_03, GG__xx NSCFxx03				
	ISUP message IAM	CAP operation InitialDP	CAP operation Connect	ISUP message IAM
VA_01	IAM_PAR_ID = Called party number [<i>Nature of address indicator</i> <i>Internal Network Number indicator</i> <i>Numbering plan indicator</i>]	InitialIDP_PAR_ID = calledPartyNumber	CONNECT_PAR_ID = destinationRoutingAddress	IAM_PAR_ID = Called party number [<i>Nature of address indicator</i> <i>Internal Network Number indicator</i> <i>Numbering plan indicator</i>]
VA_02	IAM_PAR_ID = Calling party number [<i>Nature of address indicator</i> <i>Number Incomplete indicator (NI)</i> <i>Numbering plan indicator</i> <i>Address presentation restricted indicator</i> <i>Screening indicator</i>]	InitialIDP_PAR_ID = callingPartyNumber	-	IAM_PAR_ID = Calling party number [<i>Nature of address indicator</i> <i>Number Incomplete indicator (NI)</i> <i>Numbering plan indicator</i> <i>Address presentation restricted indicator</i> <i>Screening indicator</i>]
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 [<i>Odd/even indicator</i> <i>Nature of address indicator</i> <i>Internal Network Number indicator</i> <i>Numbering plan indicator</i> <i>Address presentation restricted indicator</i> <i>Screening indicator</i> <i>Address signals</i>]	InitialIDP_PAR_ID = locationNumber	-	IAM_PAR_ID = Location number [<i>Odd/even indicator</i> <i>Nature of address indicator</i> <i>Internal Network Number indicator</i> <i>Numbering plan indicator</i> <i>Address presentation restricted indicator</i> <i>Screening indicator</i> <i>Address signals</i>]
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 (1 st 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	Forward call indicators	-	-	Forward call indicators
VA_10	IAM_PAR_ID = User service information prime (1 st 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 (2 nd priority) or TMR
VA_11	IAM_PAR_ID = Redirecting number	InitialIDP_PAR_ID = redirectingPartyID	CONNECT_PAR_ID = redirecting PartyId	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 GG__xx N_03 to GG__xx N_05, GG__xx I_01 to GG__xx I_03, GG__xx NSCFxx03				
	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

PCO / PO A/CAP Interface parameter Values for test purpose GG__xx N_01 to GG__xx N_05, GG__xx I_01 to GG__xx I_03, GG__xx NSCFxx03		
	SETUP	CAP operation InitialDP
VA_01	SETUP_PAR_ID = Called party number	InitialDP_PAR_ID = calledPartyNumber
VA_02	SETUP_PAR_ID = Calling party number	InitialDP_PAR_ID =callingPartyNumber
VA_03	SETUP_PAR_ID = Calling party subaddress	InitialDP_PAR_ID =callingPartySubaddress
VA_04	SETUP_PAR_ID = Original called number	InitialDP_PAR_ID =originalCalledPartyID
VA_05	SETUP_PAR_ID = HLC 1 (1 st priority) HLC 2 (2 nd priority)	InitialDP_PAR_ID=highLayerCompatibility
VA_06	SETUP_PAR_ID = BC 1 (1 st priority) SETUP_PAR_ID = BC 2 (2 nd priority)	InitialDP_PAR_ID =bearerCapability

PCO / PO ISUP/INAP Interface parameter Values for test purpose IG__xx N_01, II__xx N_01		
	ISUP message IAM	INAP operation InitialDP
VA_01	IAM_PAR_ID = Called party number <i>[Nature of address indicator Internal Network Number indicator Numbering plan indicator]</i>	InitialDP_PAR_ID = calledPartyNumber
VA_02	IAM_PAR_ID = Calling party number <i>[Nature of address indicator Number Incomplete indicator (NI) Numbering plan indicator Address presentation restricted indicator Screening indicator]</i>	InitialDP_PAR_ID =callingPartyNumber
VA_03	Calling party subaddress IE contained in access transport	-
VA_04	IAM_PAR_ID = Calling party's category	InitialDP_PAR_ID =callingPartysCategory
VA_05	IAM_PAR_ID = Location number <i>[Odd/even indicator Nature of address indicator Internal Network Number indicator Numbering plan indicator Address presentation restricted indicator Screening indicator Address signals]</i>	InitialDP_PAR_ID =locationNumber
VA_06	IAM_PAR_ID = Original called number	InitialDP_PAR_ID =originalCalledPartyID

PCO / PO ISUP/INAP Interface parameter Values for test purpose IG __xx N_ 01, II __xx N_ 01		
	ISUP message IAM	INAP operation InitialIDP
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 IG __xx N_ 02, II __xx N_ 02				
	ISUP message IAM	INAP operation InitialIDP	INAP operation ContinueWithArgument	ISUP message IAM
VA_01	IAM_PAR_ID = Called party number [<i>Nature of address indicator</i> <i>Internal Network Number indicator</i> <i>Numbering plan indicator</i>]	InitialIDP_PAR_ID = calledPartyNumber	-	IAM_PAR_ID = Called party number [<i>Nature of address indicator</i> <i>Internal Network Number indicator</i> <i>Numbering plan indicator</i>]
VA_02	IAM_PAR_ID = Calling party number [<i>Nature of address indicator</i> <i>Number Incomplete indicator (NI)</i> <i>Numbering plan indicator</i> <i>Address presentation restricted indicator</i> <i>Screening indicator</i>]	InitialIDP_PAR_ID =callingPartyNumber	callingPartyNumber	IAM_PAR_ID = Calling party number [<i>Nature of address indicator</i> <i>Number Incomplete indicator (NI)</i> <i>Numbering plan indicator</i> <i>Address presentation restricted indicator</i> <i>Screening indicator</i>]
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

PCO / PO ISUP/INAP				
Interface parameter Values for test purpose IG_xx N_02, II_xx N_02				
	ISUP message IAM	INAP operation InitialIDP	INAP operation ContinueWithArgument	ISUP message IAM
VA_05	IAM_PAR_ID = Location number [<i>Odd/even indicator</i> <i>Nature of address indicator</i> <i>Internal Network Number indicator</i> <i>Numbering plan indicator</i> <i>Address presentation restricted indicator</i> <i>Screening indicator</i> <i>Address signals</i>]	InitialIDP_PAR_ID =locationNumber	-	IAM_PAR_ID = Location number [<i>Odd/even indicator</i> <i>Nature of address indicator</i> <i>Internal Network Number indicator</i> <i>Numbering plan indicator</i> <i>Address presentation restricted indicator</i> <i>Screening indicator</i> <i>Address signals</i>]
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 = RedirectionInformation	InitialIDP_PAR_ID = Redirection Information	CONNECT_PAR_ID = RedirectionInformation	IAM_PAR_ID = redirectionInformation
VA_13	CCSS	-	-	CCSS
VA_14	Access Transport	isdAccessRelated Information	isdAccessRelated Information	Access Transport
VA_15	Generic Number	GenericNumbers	GenericNumbers	Generic Number
VA_16	TNS	carrier	carrier	TNS
VA_17	Calling geodetic location	callingGeodeticLocation		
VA_18			ServiceInteractionIndicator sTwo	See Mapping of the INAP serviceInteractionIndicators (sTwo) in the chapter Supplementary Services

PCO / PO ISUP/INAP. Interface parameter Values for test purpose IG_xx N_03, II_xx N_03				
	ISUP message IAM	INAP operation InitialIDP	INAP operation Connect	ISUP message IAM
VA_01	IAM_PAR_ID = Called party number [<i>Nature of address indicator Internal Network Number indicator Numbering plan indicator</i>]	InitialIDP_PAR_ID = calledPartyNumber	DestinationRouting Address	IAM_PAR_ID = Called party number [<i>Nature of address indicator Internal Network Number indicator Numbering plan indicator</i>]
VA_02	IAM_PAR_ID = Calling party number [<i>Nature of address indicator Number Incomplete indicator (NI) Numbering plan indicator Address presentation restricted indicator Screening indicator</i>]	InitialIDP_PAR_ID =callingPartyNumber	CallingPartyNumber	IAM_PAR_ID = Calling party number [<i>Nature of address indicator Number Incomplete indicator (NI) Numbering plan indicator Address presentation restricted indicator Screening indicator</i>]
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 [<i>Odd/even indicator Nature of address indicator Internal Network Number indicator Numbering plan indicator Address presentation restricted indicator Screening indicator Address signals]</i>	InitialIDP_PAR_ID =locationNumber	-	IAM_PAR_ID = Location number [<i>Odd/even indicator Nature of address indicator Internal Network Number indicator Numbering plan indicator Address presentation restricted indicator Screening indicator Address signals]</i>
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 parameter Values for test purpose IG_xx N_03, II_xx N_03				
	ISUP message IAM	INAP operation InitialIDP	INAP operation Connect	ISUP message 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 = 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	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		
			ServiceInteractionIndicatorsTwo	See Mapping of the INAP serviceInteractionIndicatorsTwo)

PCO / PO ISUP/INAP Interface parameter Values for test purpose IG_xx N_04, II_xx N_04				
	ISUP message IAM	INAP operation InitialIDP	INAP operation Connect	ISUP message IAM
VA_01	IAM_PAR_ID = Called party number [<i>Nature of address indicator Internal Network Number indicator Numbering plan indicator</i>]	InitialIDP_PAR_ID = calledPartyNumber	DestinationRouting Address	IAM_PAR_ID = Called party number [<i>Nature of address indicator Internal Network Number indicator Numbering plan indicator</i>]
VA_02	IAM_PAR_ID = Calling party number [<i>Nature of address indicator Number Incomplete indicator (NI) Numbering plan indicator Address presentation restricted indicator Screening indicator</i>]	InitialIDP_PAR_ID =callingPartyNumber	CallingPartyNumber	IAM_PAR_ID = Calling party number [<i>Nature of address indicator Number Incomplete indicator (NI) Numbering plan indicator Address presentation restricted indicator Screening indicator</i>]
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

PCO / PO ISUP/INAP				
Interface parameter Values for test purpose IG_xx 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 [<i>Odd/even indicator</i> <i>Nature of address indicator</i> <i>Internal Network Number indicator</i> <i>Numbering plan indicator</i> <i>Address presentation restricted indicator</i> <i>Screening indicator</i> <i>Address signals</i>]	InitialIDP_PAR_ID =locationNumber	-	IAM_PAR_ID = Location number [<i>Odd/even indicator</i> <i>Nature of address indicator</i> <i>Internal Network Number indicator</i> <i>Numbering plan indicator</i> <i>Address presentation restricted indicator</i> <i>Screening indicator</i> <i>Address signals</i>]
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"	AdditionalCallingPartyNumber	-	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 = RedirectionInformation	InitialIDP_PAR_ID = Redirection Information	CONNECT_PAR_ID = RedirectionInformation	IAM_PAR_ID = redirectionInformation
VA_13	CCSS	-	-	CCSS
VA_14	Access Transport	IsdnAccessRelatedInformation	IsdnAccessRelatedInformation	Access Transport
VA_15	Generic Number	GenericNumbers	GenericNumbers	Generic Number
VA_16	TNS	carrier	Carrier	TNS
VA_17	Calling geodetic location	CallingGeodeticLocation		
			ServiceInteractionIndicatorsTwo	See Mapping of the INAP serviceInteractionIndicators Two)

PCO / PO ISDN/INAP		
Interface parameter Values for test purposes: IG __xx N_01 to IG __xx N_05, IG __xx I_01 to IG __xx I_04, II __xx N_01 to II __xx N_05, II __xx I_01 to II __xx I_04		
	SETUP	INAP operation InitialDP
VA_01	SETUP_PAR_ID = Called party number	InitialDP_PAR_ID = calledPartyNumber
VA_02	SETUP_PAR_ID = Calling party number	InitialDP_PAR_ID =callingPartyNumber
VA_03	SETUP_PAR_ID = Calling party subaddress	InitialDP_PAR_ID =callingPartySubaddress
VA_04	SETUP_PAR_ID = Original called number	InitialDP_PAR_ID =originalCalledPartyID
VA_05	SETUP_PAR_ID = HLC 1 (1 st priority) HLC 2 (2 nd priority)	InitialDP_PAR_ID=highLayerCompatibility
VA_06	SETUP_PAR_ID = BC 1 (1 st priority) SETUP_PAR_ID = BC 2 (2 nd priority)	InitialDP_PAR_ID =bearerCapability

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History

Document history		
V1.1.1	September 2002	Publication