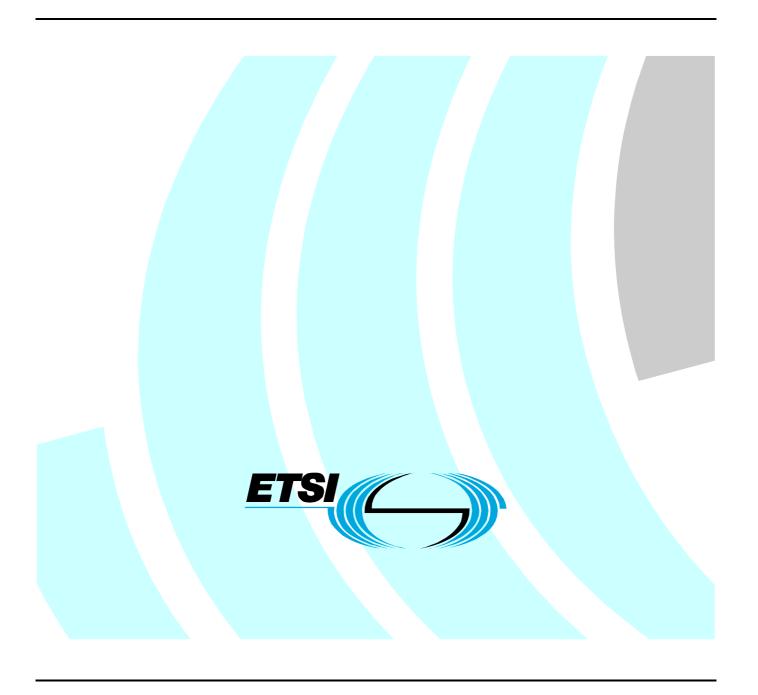
# ETSITS 186 002-3 V1.3.1 (2010-06)

Technical Specification

Telecommunications and Internet Converged Services and Protocols for Advanced Networking (TISPAN); Interworking between Session Initiation Protocol (SIP) and Bearer Independent Call Control Protocol (BICC) or ISDN User Part (ISUP);

Part 3: Test Suite Structure and Test Purposes (TSS&TP) for Profile C



#### Reference

RTS/TISPAN-06059-3-NGN-R1

Keywords

BICC, ISUP, SIP, testing, TSS&TP

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#### **Foreword**

This Technical Specification (TS) has been produced by ETSI Technical Committee Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN).

The present document is part 3 of a multi-part deliverable covering the Interworking between Session Initiation Protocol (SIP) and Bearer Independent Call Control Protocol (BICC) or ISDN User Part (ISUP), as identified below:

- Part 1: "Protocol Implementation Conformance Statement (PICS)";
- Part 2: "Test Suite Structure and Test Purposes (TSS&TP) for Profile A and B";
- Part 3: "Test Suite Structure and Test Purposes (TSS&TP) for Profile C";
- Part 4: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) for Profiles A and B";
- Part 5: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) for Profile C".

### 1 Scope

The present document specifies the network Test Suite Structure and Test Purposes (TSS and TP) Interworking between Session Initiation Protocol (SIP) and Bearer Independent Call Control Protocol (BICCP) ISDN User Part (ISUP) for the Profile C (SIP-I) described in the ITU-T Recommendation Q.1912.5 [1] and EN 383 001 [2].

.A further part of the present document specifies the Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma based on the present document.

### 2 References

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the reference document (including any amendments) applies.

Referenced documents which are not found to be publicly available in the expected location might be found at <a href="http://docbox.etsi.org/Reference">http://docbox.etsi.org/Reference</a>.

NOTE: While any hyperlinks included in this clause were valid at the time of publication ETSI cannot guarantee their long term validity.

#### 2.1 Normative references

The following referenced documents are necessary for the application of the present document.

[1]	ITU-T Recommendation Q.1912.5: "Interworking between Session Initiation Protocol (SIP) and Bearer Independent Call Control protocol or ISDN User Part".
[2]	ETSI EN 383 001: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); Interworking between Session Initiation Protocol (SIP) and Bearer Independent Call Control (BICC) Protocol or ISDN User Part (ISUP) [ITU-T Recommendation Q.1912.5, modified]".
[3]	ITU-T Recommendation Q.850 (1998): "Usage of cause and location in the Digital Subscriber Signalling System No. 1 and the Signalling System No. 7 ISDN User Part".
[4]	IETF RFC 3261 (2002): "SIP: Session Initiation Protocol".
[5]	IETF RFC 3312 (2002): "Integration of Resource Management and Session Initiation Protocol (SIP)".
[6]	ISO/IEC 9646-1 (1994): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
[7]	ISO/IEC 9646-3 (1992): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 3: The Tree and Tabular Combined Notation (TTCN)".
[8]	ISO/IEC 9646-7 (1995): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".
[9]	ITU-T Recommendation E.164: "The international public telecommunication numbering plan".
[10]	IETF RFC 3311 (2002): "The Session Initiation Protocol (SIP) UPDATE Method".
[11]	ITU-T Recommendation Q.1902.4: "Bearer Independent Call Control protocol (Capability Set 2): Basic call procedures".

#### 2.2 Informative references

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

[i.1] ITU-T Recommendation Q.730: "ISDN user part supplementary services". [i.2] ITU-T Recommendation Q.731: "Stage 3 description for the number identification supplementary services using SS No.7". ITU-T Recommendation Q.731.7: "Malicious call identification (MCID)". [i.3] ITU-T Recommendation Q.732: "Call diversion services". [i.4] ITU-T Recommendation Q.732.7: "Explicit Call Transfer". [i.5]ITU-T Recommendation O.733: "Stage 3 description for call completion supplementary services [i.6] using Signalling System No. 7: Terminal portability (TP)". [i.7] ITU-T Recommendation Q.734: "Stage 3 description for multiparty supplementary services using Signalling System No. 7: Conference calling". ITU-T Recommendation Q.734.2: "Three-party service". [i.8] ITU-T Recommendation Q.735: "Closed user group (CUG)". [i.9] [i.10] ITU-T Recommendation Q.737: "User-to-user signalling (UUS)". [i.11] ITU-T Recommendation Q.784: "ISUP basic call test specification". [i.12] ITU-T Recommendations Q.764: "Signalling System No. 7 - ISDN User Part signalling procedures".

### 3 Definitions and abbreviations

#### 3.1 Definitions

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

- terms defined in SIP/ISUP interworking reference specification;
- terms defined in ISDN layer 3 reference specification;
- terms defined in ISDN User Part (ISUP) reference specification terms defined in ISO/IEC 9646-1 [6], ISO/IEC 9646-3 [7] and in ISO/IEC 9646-7 [8].

**Abstract Test Case (ATC):** complete and independent specification of the actions required to achieve a specific test purpose, defined at the level of abstraction of a particular Abstract Test Method, starting in a stable testing state and ending in a stable testing state

**Abstract Test Method (ATM):** description of how an SUT is to be tested, given at an appropriate level of abstraction to make the description independent of any particular realization of a Means Of Testing, but with enough detail to enable abstract test cases to be specified for this method

Abstract Test Suite (ATS): test suite composed of abstract test cases

**Implementation Under Test (SUT):** implementation of one or more OSI protocols in an adjacent user/provider relationship, being part of a real open system which is to be studied by testing

**Means of Testing (MOT):** combination of equipment and procedures that can perform the derivation, selection, parameterization and execution of test cases, in conformance with a reference standardized ATS, and can produce a conformance log

PICS proforma: document, in the form of a questionnaire, which when completed for an implementation or system becomes the PICS

PIXIT proforma: document, in the form of a questionnaire, which when completed for the SUT becomes the PIXIT

**Point of Control and Observation (PCO):** point within a testing environment where the occurrence of test events is to be controlled and observed, as defined in an Abstract Test Method

**pre-test condition:** setting or state in the SUT which cannot be achieved by providing stimulus from the test environment

**Protocol Implementation Conformance Statement (PICS):** statement made by the supplier of a protocol claimed to conform to a given specification, stating which capabilities have been implemented

**Protocol Implementation eXtra Information for Testing (PIXIT):** statement made by a supplier or implementor of an SUT (protocol) which contains or references all of the information related to the SUT and its testing environment, which will enable the test laboratory to run an appropriate test suite against the SUT

SIP number: number conforming to the numbering and structure specified in ITU-T Recommendation E.164 [9]

System Under Test (SUT): real open system in which the SUT resides

**user:** access protocol entity at the user side of the user-network interface where a T reference point or coincident S and T reference point applies

# 3.1.1 SIP Profile C for interworking between SIP with MIME encoding of ISUP and BICC/ISUP

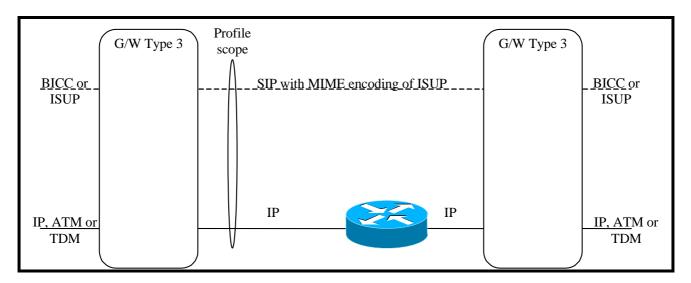


Figure 1: Profile scope for SIP with MIME encoding of ISUP interworking with BICC/ISUP with type 3 gateways

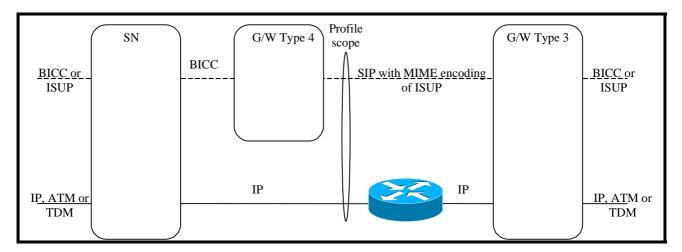


Figure 2: Profile scope for SIP, with MIME encoding of ISUP interworking with BICC/ISUP with type 3 and 4 gateways

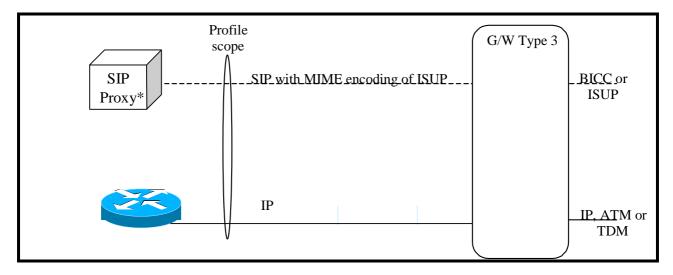


Figure 3: Profile scope for SIP with MIME encoding of ISUP interworking with BICC/ISUP with type 3 gateways

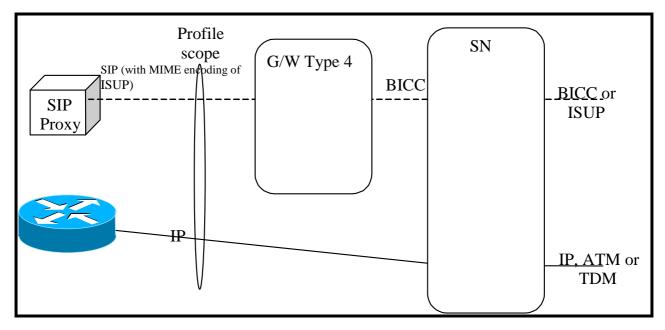


Figure 4: Profile scope for SIP, with MIME encoding of ISUP interworking with BICC/ISUP with type 4 gateway

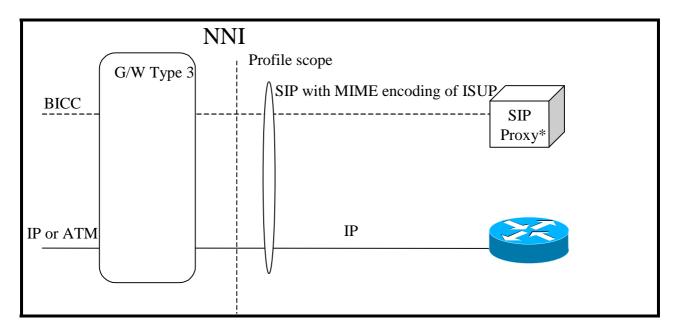


Figure 5: Profile scope for SIP, with MIME encoding of ISUP interworking with BICC/ISUP with type 3 gateway

### 3.2 Abbreviations

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

3PTY	Three-Party
ACM	Address Complete Message
ANM	ANswer Message
ASP	Abstract Service Primitive
ATC	Abstract Test Case
ATM	Abstract Test Method
ATP	Access Transport Parameter
ATS	Abstract Test Suite
AVP	Attribute-Value Pairs

BC Bearer Capability

BCI Backward Call Indicators

BICC Bearer Independent Call Control protocol
BICCP Bearer Independent Call Control Protocol
BLA BLocking Acknowledgement message

BLO BLOcking message CC Country Code

CCBS Completion of Communication to Busy Subscriber

CD Call Deflection
CDIV Call DIVersion
CFB Call Forwarding Busy
CFN ConFusioN message

CFNR Communications Forwarding No Reply

CFU Call Forwarding Unconditional

CGB Circuit Group Blocking

CGBA Circuit Group Blocking Acknowledgement message

CGU Circuit Group Unblocking message

CGUA Circuit Group Unblocking Acknowledgement message

CLIP Calling Line Identification Presentation
CLIR Calling Line Identification Restriction

COL COnnected Line

COLP COnnected Line identification Presentation COLR COnnected Line identification Restriction

CON CONnect message **CONF** CONFerence calling COnTinuity message COT **CPG** Call Progress Message **CPS** Calling Party's Category **CTNb** ConnecTed Number **CUG** Closed User Group Call Waiting CW

DISC DISConnect message
DLE Destination Local Exchange
DSS1 Digital Subscriber System no. 1

ECT Explicit Call transfer
FAA FAcility Accepted message

FAC FACility message

FAR FAcility Request message FCI Forward Call Indicators FRJ Facility ReJect message

GRA circuit Group Reset Acknowledgement message

GRS Group ReSet

HLC High Layer Compatibility

HOLD
IA
Incomming Access
IAM
Initial Address Message
ICB
Incomming Call Barred
IDR
IDentification Request message
I-IWU
Incoming InterWorking Unit

I-MGCF Incoming Media Gateway Control Function

IRS Identification ResponSe message
ISDN Integrated Services Digital Network

ISUP ISDN User Part

ITU International Telecommunication Union

IUT Implementation Under Test
LOP LOop Prevention message
MCID Malicious Call IDentification
MGCF Media Gateway Control Function
MIME Multi-purpose Internet Mail Extension

MOT Means Of Testing

NCI Nature of Connection Indicators NDC National Destination Code OA **Outgoing Access** 

OBCI Optional Backward Call Indicators Outgoing InterWorking Unit O-IWU Originating Local Exchange **OLE** 

Outgoing Media Gateway Control Function O-MGCF

Open Systems Interconnection OSI Pulse Code Modulation A-law **PCMA PCMU** Pulse Code Modulation µ-law **PCO** Point of Control and Observation

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

PT Pay load Type

PTC Parallel Test Component REL RELease message

**RESUME RES** 

ReLease Complete message **RLC** 

ReSet Circuit **RSC** RTP Real Time Protocol

SAM Subsequent Address Message SDP Session Description Protocol SeGmentation Message **SGM** Session Initiation Protocol SIP

SIP-I Session Initiation Protocol with encapsulated ISUP

SN Subscriber Number SS Supplementary Services

SUBaddressing SUB **SUS SUSPEND SUT** System Under Test

**TMR** Transmission Medium Requirement

TON Type Of Number TP Test Purpose TSS Test Suite Structure User-Network Interface UNI UPA User Part Available message User Part Test message UPT Uniform Resource Identifier URI

User Service Information parameter USI

**USR** User-to User message **UUS** User to User Signalling

# 4 Test Suite Structure (TSS)

# 4.1 Interworking from SIP to BICC/ISUP (outgoing call)

SIP -ISUP basic call		
	Sending of the Initial Address Message (IAM)	TP101xxx
	Sending of the Subsequent Address Message (SAM)	TP102xxx
	Sending of COT	TP103xxx
	Receipt of the Address Complete Message (ACM)	TP104xxx
	Receipt of the Call Progress Message (CPG)	TP105xxx
	Receipt of the ANswer Message (ANM)	TP106xxx
	Receipt of the CONnect message (CON)	TP107xxx
	Receipt of the RELease message (REL)	TP108xxx
	Autonomous release at I-IWU	TP109xxx
	Receipt of the BYE, CANCEL message / sending of a REL	TP110xxx
	message	
	Receipt of ReSet Circuit message (RSC), circuit Group ReSet	TP111xxx
	message (GRS) or Circuit Group Blocking message (CGB)	
	with the indication hardware failure oriented	
	Receipt of the SUSPEND Message (SUS)	TP112xxx
	Receipt of the RESUME Message (RES)	TP113xxx

# 4.2 Interworking from BICC/ISUP to SIP (incoming call)

ISUP-SIP basic call		
	Sending of the INVITE message	TP301xxx
	Receipt of the Subsequent Address Message (SAM)	TP302xxx
	Sending of the Address Complete Message (ACM)	TP303xxx
	Sending of the Call Progress Message (CPG)	TP304xxx
	Sending of the ANswer Message (ANM)	TP305xxx
	Sending of the CONnect message (CON)	TP306xxx
	Receipt of the RELease message (REL)	TP307xxx
	Sending of the RELease Message (REL)	TP308xxx
	Receipt of ReSet Circuit message (RSC), circuit Group ReSet	TP309xxx
	message (GRS) or Circuit Group Blocking message (CGB)	
	with the indication hardware failure oriented	
	Receipt of Confusion message	TP310xxx
	Receipt of Suspend message	TP311xxx
	Receipt of a Blocking message	TP312xxx
	Receipt of a user part test message	TP313xxx
	Segmentation	TP314xxx

# 4.3 Supplementary services supported by encapsulation

ISUP-SIP/SIP-ISUP		
	Calling Line Identification Presentation (CLIP)	TP401xxx
	Calling line Identification Restriction (CLIR)	TP402xxx
	COnnected Line identification Presentation (COLP)	TP403xxx
	COnnected Line identification Restriction (COLR)	TP404xxx
	Terminal Portability (TP)	TP405xxx
	SUBaddressing (SUB)	TP406xxx
	Malicious Call IDentification (MCID)	TP407xxx
	Call HOLD (HOLD)	TP408xxx
	Call Waiting (CW)	TP409xxx
	Call DIVersion (CDIV)	TP410xxx
	CONFerence calling (CONF)	TP411xxx
	Explicit Call transfer (ECT)	TP412xxx
	Three-Party (3PTY)	TP413xxx
	User to User Signalling (UUS)	
	User-to-user service 1	TP4140xx
	User-to-user service 2	TP4141xx
	User-to-user service 3	TP4142xx

# 4.4 Interworking SIP-I/ISDN basic call (outgoing)

SIP-I_ISDN basic call outgoing		
	Sending of the SETUP Message	TP501xxx
	Sending of the INFO	TP502xxx
	Receipt of the ALERTING - CALL PROCEEDING -	TP503xxx
	PROGRESS Message	
	Receipt of the CONNECT Message	TP504xxx
	Initiation of the release procedure from the ISDN side	TP505xxx
	Receipt of BYE / CANCEL messages	TP506xxx

# 4.5 Interworking SIP-I/ISDN basic call (incoming)

SIP-I_ISDN basic call incoming		
	Sending of the INVITE message	TP601xxx
	Overlap sending	TP602xxx
	Receipt of the ALERTING - CALL PROCEEDING - PROGRESS Message	TP603xxx
	Sending of the CONNECT message	TP604xxx
	Receipt of the Release message (RELEASE)	TP605xxx
	Receipt of a backward BYE, CANCEL Message	TP606xxx
	Autonomous release at the MG	TP607xxx

### 4.6 Interworking SIP-I/ISDN Supplementary Services

SIP-I_ISDN_Supplementary_Services		
	Calling Line Identification Presentation (CLIP)	TP701xxx
	Calling Line Identification Restriction (CLIR)	TP702xxx
	Connected Line Identification Presentation (COLP)	TP703xxx
	Connected Line Identification Restriction (COLR)	TP704xxx
	Terminal Portability (TP)	TP705xxx
	User-to-User Signalling (UUS)	
	User-to-User Signalling Service 1 (UUS1)	TP7060xx
	User-to-User Signalling Service 2 (UUS2)	TP7061xx
	User-to-User Signalling Service 3 (UUS3)	TP7062xx
	Closed User Group (CUG)	TP707xxx
	SUB-addressing (SUB)	TP708xxx
	Malicious Call Identification (MCID)	TP709xxx
	Conference call (CONF)	TP710xxx
	Explicit Call Transfer (ECT)	TP711xxx
	Call Diversion (CFB, CFNR, CFU, CD)	TP712xxx
	Call HOLD (HOLD)	TP713xxx
	Call Waiting (CW)	TP714xxx
	Three Party Service (3PTY)	TP715xxx

# 5 Test Purposes (TP)

#### 5.1 Introduction

For each test requirement a Test Purpose (TP) is defined.

#### 5.1.1 Test Purpose (TP) naming convention

For each test requirement a Test Purpose (TP) is defined.

All test purposes belong to the main group ISUP\_SIP\_Interworking. Groups are organized according to the Test Suite Structure (TSS). Each test purpose is presented in a separate table. The first row of the table contains the following items:

- TP: Identifier of the test purpose.
- SIP reference: the reference to the requirement in the DSS1 layer 3 Recommendation, which led to the TP.
- ISUP reference: the reference to the requirement in the interworking specification and the requirement in the SIP-UP Recommendation, which led to the TP.

### 5.1.2 Source of test purpose definition

The Test Purposes (TPs) have been developed based on ITU-T Recommendation Q.1912.5 [1].

### 5.1.3 Test purpose structure

The Test Purpose (TP) structure is according to the Test Suite Structure (TSS).

# 5.2 Test purposes for the basic cal

## 5.2.1 Interworking from SIP-I to ISUP (outgoing call)

### 5.2.1.1 Sending of the Initial Address Message (IAM)

TP101001	SIP reference: RFC 3261 [4]		]	ISUP reference:		
				Q.1912.5 [1], clause 6.1.2 (i,1)		
TSS reference	SIP-ISUP/Basic call/Sending	g of the I	nitial Addı	ress Mes	sage (	(IAM)
SIP selection	NOT PICS 4/4 AND NOT PI	CS 4/5				
criteria						
ISUP selection	NOT PICS 1/6					
criteria						
Test purpose	Ensure that if the SUT upon	receipt of	of the first	INVITE	with su	ufficient digits, with a SDP
	offer:					
	<ul> <li>the SUT shall delete μ-l</li> </ul>	aw (PCN	ЛU), if pre	sent, from	m the i	media description that it will
	send back in the SDP a	nswer;				
	<ul> <li>the SUT shall immediate</li> </ul>	ely send	out the IA	۱M.		
SIP parameter	SIP INVITE: Audio RTP/AVF	908				
values	200 OK: Audio RTP/AVP 8	200 OK: Audio RTP/AVP 8				
ISUP parameter	IAM USI: A-law or absent					
values						
Comments	SIP-I		SU	IT		ISUP
	INVITE(IAM)	<b>→</b>			→	IAM
	180 Ringing(ACM)	+			<b>←</b>	ACM
	200 OK INVITE(ANM)	+			+	ANM
ACK →						
	Conversation					
	BYE(REL) →				<b>→</b>	REL
	200 OK BYE(RLC) ←					RLC

TP101002	SIP reference: RFC 3	3261 [4]			ISUP reference:	
				Q.1912.5 [1], clause 6.1.2 (i,2ai)		
TSS reference	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)					
SIP selection	PICS 4/4 AND PICS 4/5			•		
criteria						
ISUP selection	PICS 1/4 AND NOT PICS 1/6	AND PI	CS 4/1			
criteria						
Test purpose	Ensure that if the SUT upon re					
	offer 100rel extensions and p					
	<ul> <li>the SUT shall delete μ-la</li> </ul>	w (PCMI	U), if pre	sent, from th	ne media description that it will	
	send back in the SDP an	,				
					de with the coding of the Nature	
	of Connection Indicators		er: <b>"CO</b>	T to be exp	ected".	
SIP parameter	SIP INVITE: Audio RTP/AVP	8 0				
values	200 OK: Audio RTP/AVP 8					
ISUP parameter	IAM Continuity Indicator: COT		expected	l, USI: A-law	or absent	
values	COT; Continuity Indicator: co	ntinuity			liai ia	
Comments	SIP-I		SL		ISUP	
	INVITE(IAM)	<b>→</b>		-	IAM	
	183 Session Progress	+				
	PRACK	<b>→</b>				
	200 OK PRACK	+				
	UPDATE	<b>→</b>		-	COT	
	200 OK UPDATE	+				
			reconditi	ons met		
	180 Ringing(ACM)	+		•	7.10	
	200 OK INVITE(ANM)	+		•	- ANM	
	ACK	<b>→</b>				
	Conver					
	BYE(REL)	<b>→</b>				
	200 OK BYE(RLC)	<b>←</b>		•	RLC RLC	

TP101003	SIP reference: RFC 3	261 [4]	]			SUP reference:		
						5 [1], clause 6.1.2 (i,2ai)		
TSS reference		SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)						
SIP selection	PICS 4/4 AND PICS 4/5							
criteria								
ISUP selection	PICS 1/4 AND NOT PICS 1/6	AND F	PICS 4/1					
criteria								
Test purpose	Ensure that if the SUT upon re							
	offer 100rel extensions and p							
			/IU), if pre	sent, froi	m the	media description that it will		
	send back in the SDP and	,						
						with the coding of the Nature		
	of Connection Indicators	•	eter: " <b>CO</b>	Γto be e	xpect	ed".		
SIP parameter	SIP INVITE: Audio RTP/AVP	8 0						
values	200 OK: Audio RTP/AVP 8							
ISUP parameter	IAM Continuity Indicator: COT			<b>I</b> , USI: A	-law o	r absent		
values	COT; Continuity Indicator: co	ntinuit						
Comments	SIP-I		SL	JT		ISUP		
	INVITE(IAM)	<b>→</b>			→	IAM		
	183 Session Progress	+						
	PRACK	<b>→</b>						
	200 OK PRACK	+						
	UPDATE	<b>→</b>			<b>→</b>	COT		
	200 OK UPDATE	+						
		F	Precondit	ons met				
	180 Ringing(ACM)	+			<b>←</b>	ACM		
	200 OK INVITE(ANM)	<b>4</b>			+	ANM		
	ACK	<b>→</b>						
			Conver	sation				
	BYE(REL)	<b>→</b>			<b>→</b>	REL		
	200 OK BYE(RLC)	+		•	+	RLC		

TP101004	SIP reference: RFC	3261 [4]				ISUP reference:			
						5 [1], clause 6.1.2 (i,2aii)			
TSS reference	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)								
SIP selection criteria	PICS 4/4 AND PICS 4/5	PICS 4/4 AND PICS 4/5							
ISUP selection criteria	PICS 1/5 AND NOT PICS 1/6	PICS 1/5 AND NOT PICS 1/6 AND PICS 4/1							
Test purpose	<ul> <li>offer 100rel extensions and place the SUT shall delete place send back in the SDP are the IAM shall be sent our indicator "continuity cheeps".</li> </ul>	send back in the SDP answer;							
SIP parameter	SIP INVITE: Audio RTP/AVP								
values	200 OK: Audio RTP/AVP 8								
ISUP parameter	IAM Continuity Indicator: cor	ntinuity	check re	quired o	n this	circuit or continuity check			
values	performed on previous circ COT Continuity Indicator: co					·			
Comments	SIP-I		SU	T		ISUP			
	INVITE(IAM)	<b>→</b>			<b>→</b>	IAM			
	183 Session Progress	+							
	PRACK	<b>→</b>							
	200 OK PRACK	+							
	UPDATE	<b>→</b>			<b>→</b>	СОТ			
	200 OK UPDATE	+							
		F	Preconditi	ons met					
	180 Ringing(ACM)	+			+	ACM			
	200 OK INVITE(ANM)	+			+	ANM			
	ACK	<b>→</b>							
			Convers	sation					
	BYE(REL)	<b>→</b>			<b>→</b>	REL			
	200 OK BYE(RLC)	+	_		+	RLC			

TP101005	SIP reference: RFC				912.5	ISUP reference: 5 [1], clause 6.1.2 (i,2aii)			
TSS reference	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)								
SIP selection criteria	PICS 4/4 AND PICS 4/5								
ISUP selection criteria	PICS 1/5 AND NOT PICS 1/6	6 AND PI	ICS 4/1						
Test purpose	<ul> <li>offer 100rel extensions and p</li> <li>the SUT shall delete µ-lasend back in the SDP ar</li> <li>the IAM shall be sent ou indicator "continuity che</li> </ul>	send back in the SDP answer;							
SIP parameter	SIP INVITE: Audio RTP/AVP								
values	200 OK: Audio RTP/AVP 8								
ISUP parameter					n this	circuit or continuity check			
values	performed on previous circ COT Continuity Indicator: co				ıl				
Comments	SIP-I		SU	T		ISUP			
	INVITE(IAM)	<b>→</b>			<b>→</b>	IAM			
	183 Session Progress	+							
	PRACK	<b>→</b>							
	200 OK PRACK	+							
	UPDATE	<b>→</b>			<b>+</b>	COT			
	200 OK UPDATE	+							
		Р	reconditi	ons met					
	180 Ringing(ACM)	+			+	ACM			
	200 OK INVITE(ANM)	+			+	ANM			
	ACK	<b>→</b>							
			Convers	sation					
	BYE(REL)	<b>→</b>			<b>→</b>	REL			
	200 OK BYE(RLC)	+	-	-	+	RLC			

TP101006	SIP reference: RFC 3	261 [4]	]		-	SUP reference:		
						5 [1], clause 6.1.2 (i,2b)		
TSS reference	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)							
SIP selection	PICS 4/4 AND PICS 4/5							
criteria								
ISUP selection	NOT PICS 1/6 AND PICS 4/1							
criteria								
Test purpose	Ensure that if the SUT upon re							
	offer 100rel extensions and p							
			ИU), if pre	sent, from	the r	media description that it will		
	send back in the SDP and	,						
	<ul> <li>the IAM shall be deferred</li> </ul>	until a	II precond	litions hav	e bee	en met.		
SIP parameter	SIP INVITE: Audio RTP/AVP	8 0						
values	200 OK: Audio RTP/AVP 8							
ISUP parameter	IAM USI: A-law or absent							
values								
Comments	SIP-I		SU	IT		ISUP		
	INVITE(IAM)	<b>→</b>						
	183 Session Progress	+						
	PRACK	<b>→</b>						
	200 OK PRACK	+						
	UPDATE	<b>→</b>			<b>→</b>	IAM		
	200 OK UPDATE	+						
		F	Preconditi	ons met				
	180 Ringing(ACM)	<b>←</b>			<b>←</b>	ACM		
	200 OK INVITE(ANM)	+			<b>←</b>	ANM		
	ACK	<b>→</b>						
			Convers	sation				
	BYE(REL)	<b>→</b>			<b>→</b>	REL		
	200 OK BYE(RLC)	+			+	RLC		

TP101007	SIP reference: RFC 3	3261 [4	]		ı	SUP reference:		
				Q.	1912.	5 [1], clause 6.1.2 (i,2b)		
TSS reference	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)							
SIP selection	PICS 4/4 AND PICS 4/5							
criteria								
ISUP selection	NOT PICS 1/6 AND PICS 4/1							
criteria								
Test purpose	Ensure that if the SUT upon r							
	offer 100rel extensions and p							
	<ul> <li>the SUT shall delete μ-la</li> </ul>	w (PCN	/IU), if pre	sent, fron	n the	media description that it will		
	send back in the SDP an	,						
	<ul> <li>the IAM shall be deferred</li> </ul>	d until a	II precond	litions hav	ve bee	en met.		
SIP parameter	SIP INVITE: Audio RTP/AVP	8 0						
values	200 OK: Audio RTP/AVP 8							
ISUP parameter	IAM USI: A-law or absent							
values								
Comments	SIP-I		SL	JT		ISUP		
	INVITE(IAM)	<b>→</b>						
	183 Session Progress	+						
	PRACK	<b>→</b>						
	200 OK PRACK	+						
	UPDATE	→			<b>→</b>	IAM		
	200 OK UPDATE	+						
			Preconditi	ons met				
	180 Ringing(ACM)	+			+	ACM		
	200 OK INVITE(ANM)	<b>←</b>			<b>←</b>	ANM		
	ACK	<b>→</b>						
			Conver	sation				
	BYE(REL)	<b>→</b>			<b>→</b>	REL		
	200 OK BYE(RLC)	+			+	RLC		

TP101008	SIP reference: RFC	3261 [4]		I;	SUP reference:			
			Q.19	912.	5 [1], clause 6.1.2 (i,1)			
TSS reference	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)							
SIP selection	NOT PICS 4/4 AND NOT 4/5							
criteria								
ISUP selection	PICS 1/6							
criteria	- 1 · · · · · · · · · · · · · · · · · ·			.1	<u> </u>			
Test purpose	Ensure that if the SUT upon offer:	receipt of the fir	St INVITE WI	tn su	ifficient digits, with a SDP			
	******	(DOMA) :{ b		> B # A Y	) (DOMII)			
					) and µ-law (PCMU) were			
	present in the offer of the	e media descrip	tion, that it w	/III SE	and it back in the SDP			
	answer;		1004					
OID	• the SUT shall immediate	•	IAIVI.					
SIP parameter	SIP INVITE: Audio RTP/AVP	0.8						
values	200 OK: Audio RTP/AVP 0							
ISUP parameter	IAM USI: μ-law							
values								
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM)	→		<b>→</b>	IAM			
	180 Ringing(ACM)	+		<b>←</b>	ACM			
	200 OK INVITE(ANM)	+		<del>(</del>	ANM			
	ACK	<b>→</b>		,				
		Conv	ersation					
	BYE(REL)	<b>→</b>		<b>→</b>	REL			
	200 OK BYE(RLC)	+		<del>(</del>	RLC			

TP101009	SIP reference: RFC	3261 [4]			ISUP reference:		
					5 [1], clause 6.1.2 (i,2ai)		
TSS reference	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)						
SIP selection	PICS 4/4 AND PICS 4/5						
criteria							
ISUP selection	PICS 1/4 AND PICS 1/6 AND	PICS 4	·/1				
criteria							
Test purpose	<ul> <li>Ensure that if the SUT upon receipt of the first INVITE with sufficient digits, with a SDP offer 100rel extensions and preconditions extensions in the SIP Supported header:</li> <li>the SUT shall delete A-law (PCMA) if both A-law (PCMA) and μ-law (PCMU) were present in the offer of the media description, that it will send it back in the SDP answer:</li> <li>the IAM shall be sent out immediately on the BICC side with the coding of the Nature of Connection Indicators parameter: "COT to be expected".</li> </ul>						
SIP parameter	SIP INVITE: Audio RTP/AVP				_		
values	200 OK: Audio RTP/AVP 0						
ISUP parameter	IAM USI: μ-law; Nature of Co	nnection	n Indicato	rs parameter:	"COT to be expected" COT;		
values	Continuity Indicator: continui	ity					
Comments	SIP-I		SU	IT	ISUP		
	INVITE(IAM)	<b>→</b>		→	IAM		
	183 Session Progress	<b>←</b>					
	PRACK	<b>→</b>					
	200 OK PRACK	<b>←</b>					
	UPDATE	<b>→</b>		→	COT		
	200 OK UPDATE	<b>←</b>					
		F	reconditi	ons met			
	180 Ringing(ACM)	+		+	ACM		
	200 OK INVITE(ANM)	+		+	ANM		
	ACK	<b>→</b>					
			Convers	sation			
	BYE(REL)	<b>→</b>		→	REL		
	200 OK BYE(RLC)	+		+	RLC		

TP101010	SIP reference: RFC 3261 [4]			Q.191	ISUP reference: 2.5 [1], clause 6.1.2	2 (i,2ai)	
TSS reference	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)						
SIP selection	PICS 4/4 AND PICS 4/5						
criteria							
ISUP selection	PICS 1/4 AND PICS 1/6 AND	PICS 4	/1				
criteria							
Test purpose	<ul> <li>Ensure that if the SUT upon receipt of the first INVITE with sufficient digits, with a SDP offer 100rel extensions and preconditions extensions in the SIP Require header:</li> <li>the SUT shall delete A-law (PCMA) if both A-law (PCMA) and μ-law (PCMU) were present in the offer of the media description, that it will send it back in the SDP answer;</li> <li>the IAM shall be sent out immediately on the BICC side with the coding of the Nature of Connection Indicators parameter: "COT to be expected".</li> </ul>						
SIP parameter	SIP INVITE: Audio RTP/AVP						
values	200 OK: Audio RTP/AVP 0						
ISUP parameter	IAM USI: μ-law; Nature of Co	nnection	Indicato	rs paramete	r: "COT to be expe	cted" COT;	
values	Continuity Indicator: continui	ity		•	•		
Comments	SIP-I		SU	Т	ISUP		
	INVITE(IAM)	<b>→</b>		-	IAM		
	183 Session Progress	+					
	PRACK	<b>→</b>					
	200 OK PRACK	+					
	UPDATE	<b>→</b>		-	COT		
	200 OK UPDATE	+					
		Р	reconditi	ons met			
	180 Ringing(ACM)	+		€	- ACM		
	200 OK INVITE(ANM)	+		€	- ANM		
	ACK	<b>→</b>					
			Convers	sation			
	BYE(REL)	<b>→</b>		-3	REL		
	200 OK BYE(RLC)	+		•	- RLC	_	

TP101011	SIP reference: RFC 32	261 [4]		ISUP reference: 5 [1], clause 6.1.2 (i,2aii)				
TSS reference	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)							
SIP selection	PICS 4/4 AND PICS 4/5							
criteria								
ISUP selection	PICS 1/5 AND PICS 1/6 AND I	PICS 4/1						
criteria								
Test purpose	<ul> <li>Ensure that if the SUT upon receipt of the first INVITE with sufficient digits, with a SDP offer 100rel extensions and preconditions extensions in the SIP Supported header:</li> <li>the SUT shall delete A-law (PCMA) if both A-law (PCMA) and μ-law (PCMU) ) were present in the offer of the media description, that it will send it back in the SDP answer;</li> <li>the IAM shall be sent out immediately on the ISUP side with the Continuity check indicator "continuity check required on this circuit" or is set to "continuity check performed on previous circuit".</li> </ul>							
SIP parameter	SIP INVITE: Audio RTP/AVP 0							
values	200 OK: Audio RTP/AVP 0							
ISUP parameter	IAM: USI: μ-law; Continuity che	eck indicator "c	ontinuity chec	k required on this circuit" or				
values	continuity check performed or							
0	COT: Continuity Indicator: con			TIQUE				
Comments	SIP-I	Sl	) i →	ISUP IAM				
	INVITE(IAM)		7	IAW				
	183 Session Progress	<b>←</b>						
	PRACK	<del>7</del>						
	200 OK PRACK UPDATE	<b>→</b>	<b>→</b>	COT				
	200 OK UPDATE	<del>7</del>	7	COT				
	200 OK OPDATE	Precondit	ions met					
	180 Ringing(ACM)	<b>←</b>	<b>+</b>	ACM				
	200 OK INVITE(ANM)	+	+	ANM				
	ACK	<b>→</b>						
		Conver	sation					
	BYE(REL)	<b>→</b>	<b>→</b>	REL				
	200 OK BYE(RLC)	+	+	RLC				

TP101012	SIP reference: RFC 3			ISUP reference: .5 [1], clause 6.1.2 (i,2aii)					
TSS reference	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)								
SIP selection criteria	PICS 4/4 AND PICS 4/5								
ISUP selection criteria	PICS 1/5 AND PICS 1/6 AND PICS 4/1								
Test purpose	<ul> <li>Ensure that if the SUT upon receipt of the first INVITE with sufficient digits, with a SDP offer 100rel extensions and preconditions extensions in the SIP Require header:</li> <li>the SUT shall delete A-law (PCMA) if both A-law (PCMA) and μ-law (PCMU) ) were present in the offer of the media description, that it will send it back in the SDP answer;</li> <li>the IAM shall be sent out immediately on the ISUP side with the Continuity check indicator "continuity check required on this circuit" or is set to "continuity check performed on previous circuit".</li> </ul>								
SIP parameter	SIP INVITE: Audio RTP/AVP	0 8							
values	200 OK: Audio RTP/AVP 0								
ISUP parameter	IAM: USI: μ-law; Continuity ch			eck required on this circuit"					
values	continuity check performed of COT: Continuity Indicator: co								
Comments	SIP-I		SUT	ISUP					
	INVITE(IAM)	<b>→</b>	→	IAM					
	183 Session Progress	+							
	PRACK	<b>→</b>							
	200 OK PRACK	+							
	UPDATE	<b>→</b>	→	СОТ					
	200 OK UPDATE	+							
		Precond	itions met						
	180 Ringing(ACM)	+	+	ACM					
	200 OK INVITE(ANM)	+	+	ANM					
	ACK	<b>→</b>							
		Conve	ersation						
	BYE(REL)	<b>→</b>	→	REL					
	200 OK BYE(RLC)	<del>(</del>	<del>(</del>	RLC					

TP101013	SIP reference: RFC 3	261 [4	]		_	SUP reference:		
						5 [1], clause 6.1.2 (i,2b)		
TSS reference	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)							
SIP selection	PICS 4/4 AND PICS 4/5							
criteria								
ISUP selection	PICS 1/6 AND PICS 4/1							
criteria								
Test purpose	<ul> <li>Ensure that if the SUT upon receipt of the first INVITE with sufficient digits, with a SDP offer 100rel extensions and preconditions extensions in the SIP Supported header:</li> <li>the SUT shall delete A-law (PCMA) if both A-law (PCMA) and μ-law (PCMU) were present in the offer of the media description, that it will send it back in the SDP answer;</li> <li>the IAM shall be deferred until all preconditions have been met.</li> </ul>							
SIP parameter	SIP INVITE: Audio RTP/AVP							
values	200 OK: Audio RTP/AVP 0							
ISUP parameter	IAM USI: μ-law							
values	•							
Comments	SIP-I		SL	JT		ISUP		
	INVITE(IAM)	<b>→</b>						
	183 Session Progress	4						
	PRACK	1						
	200 OK PRACK	4						
	UPDATE	1			<b>→</b>	IAM		
	200 OK UPDATE	4						
			Preconditi	ons met				
	180 Ringing(ACM)	+			<b>←</b>	ACM		
	200 OK INVITE(ANM)	+			<b>←</b>	ANM		
	ACK	<b>^</b>						
			Conver	sation				
	BYE(REL)	<b>^</b>			<b>→</b>	REL		
	200 OK BYE(RLC)	+	-		<del>(</del>	RLC		

TP101014	SIP reference: RFC 3	3261 [4]				SUP reference:		
						5 [1], clause 6.1.2 (i,2b)		
TSS reference	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)							
SIP selection	PICS 4/4 AND PICS 4/5							
criteria								
ISUP selection	PICS 1/6 AND PICS 4/1							
criteria								
Test purpose	<ul> <li>Ensure that if the SUT upon receipt of the first INVITE with sufficient digits, with a SDP offer 100rel extensions and preconditions extensions in the SIP Require header:</li> <li>the SUT shall delete A-law (PCMA) if both A-law (PCMA) and μ-law (PCMU) were present in the offer of the media description, that it will send it back in the SDP answer;</li> <li>the IAM shall be deferred until all preconditions have been met.</li> </ul>							
SIP parameter	SIP INVITE: Audio RTP/AVP							
values	200 OK: Audio RTP/AVP 0							
ISUP parameter	IAM USI: μ-law							
values								
Comments	SIP-I		SL	JT		ISUP		
	INVITE(IAM)	→						
	183 Session Progress	+						
	PRACK	<b>→</b>						
	200 OK PRACK	+						
	UPDATE	<b>→</b>			<b>→</b>	IAM		
	200 OK UPDATE	+						
			Preconditi	ons met				
	180 Ringing(ACM)	+			<b>←</b>	ACM		
	200 OK INVITE(ANM)	+			+	ANM		
	ACK	<b>→</b>						
			Conver	sation				
	BYE(REL)	<b>→</b>			<b>→</b>	REL		
	200 OK BYE(RLC)	<b>←</b>			+	RLC		

TP101015	SIP reference: RF	C 3261 [4]	Q.19		ISUP reference: , clauses 6.1.3.2, 6.1.3.3 and 6.1.3.4				
TSS reference	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)								
SIP selection criteria									
ISUP selection criteria	NOT PICS 1/9 AND NOT I	NOT PICS 1/9 AND NOT PICS 4/4 and NOT PICS 4/5							
Test purpose	<ul> <li>Ensure that the SUT on receipt of an INVITE message sends an IAM message, where:</li> <li>the Calling party's category is generated from the Calling Party's Category present in the encapsulated IAM;</li> <li>the Nature of Connection Indicators (NCI) is generated by the MGCF using the Nature of Connection Indicators received in the encapsulated IAM;</li> <li>the appropriate values of the Forward Call Indicator parameter are generated by the MGCF using the Forward Call Indicators parameter present within the received encapsulated IAM.</li> </ul>								
SIP parameter values									
ISUP parameter values									
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM				
	180 Ringing(ACM)	+		+	ACM				
	200 OK INVITE(ANM)	<b>←</b>		+	ANM				
	ACK	<b>→</b>							
		<u> </u>	Conversation						
	BYE(REL)	<b>→</b>		<b>→</b>	REL				
	200 OK BYE(RLC)	+		+	RLC				

P101016	SIP reference: RFC 32		_	UP reference: .5 [1], clause 6.1.3.5			
TSS reference	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)						
SIP selection criteria	NOT PICS 4/4 and NOT PICS 4/5						
ISUP selection criteria							
Test purpose	Ensure that the SUT in the Idle state on receipt of a INVITE message with an encapsulated IAM message.  The TMR and USI shall be taken from the encapsulated ISUP:  • sends an IAM message, with the Transmission Medium Requirement (TMR) taken from the encapsulated ISUP.						
SIP parameter values	SIP INVITE						
ISUP parameter values	IAM; USI; ISDN_BC_ITR; TMR						
Comments	SIP-I		SUT		ISUP		
	INVITE(IAM)	→		<b>→</b>	IAM		
	180 Ringing(ACM)	+		+	ACM		
	200 OK INVITE(ANM)	+		+	ANM		
	ACK	<b>→</b>					
			Conversatio	n			
	BYE(REL)	<b>→</b>		<b>→</b>	REL		
	200 OK BYE(RLC)	+		+	RLC		

Values and selection criteria for the test purpose TP101020						
VA_01	USI= speech	ISUP_TMR = speech				
VA_02	USI= 3,1 kHz audio	ISUP_TMR = 3,1 kHz audio				
VA_03	USI= unrestricted digital information ISDN_BC_ITR = 64 kbits/s unrestricted	ISUP_TMR = 64 kbits/s unrestricted				
VA_04	No USI contained in the encapsulated IAM	ISUP_TMR = speech				
VA_05	No USI contained in the encapsulated IAM	ISUP_TMR = 3,1 kHz audio				
VA_06	No USI contained in the encapsulated IAM	ISUP_TMR = 64 kbits/s unrestricted				

TP101017	SIP reference: RFC 3261 [4]			ISUP reference: Q.1912.5 [1], clause 6.1.3.5		
TSS reference	SIP-ISUP/Basic call/Sendir	ng of the In	itial Addre	ss Message	(IAM)	
SIP selection	NOT PICS 4/4 and NOT PI	CS 4/5				
criteria						
ISUP selection						
criteria						
Test purpose	encapsulated IAM message	Ensure that the SUT in the Idle state on receipt of a INVITE message with an encapsulated IAM message the HLC shall be taken from the encapsulated ISUP:  • sends an IAM message, with the HLC taken from the encapsulated ISUP.				
SIP parameter values	INVITE;				•	
ISUP parameter values	IAM; Access transport pa	rameter H	LC: HLC_	VALUE; USI		
Comments	SIP-I		SUT	-	ISUP	
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM	
	180 Ringing(ACM)	+		<del>(</del>	ACM	
	200 OK INVITE(ANM)	+		+	ANM	
	ACK	<b>→</b>				
			Conversa	ation		
	BYE(REL)	<b>→</b>		<b>→</b>	REL	
	200 OK BYE(RLC)	+		+	RLC	

	Values and selection criteria for the test purpose TP1010017
VA_01	HLC_VALUE = Telephony
	USI= speech
VA_02	HLC_VALUE = Facsimile Group 2/3
	USI= 3,1 kHz audio
VA_03	HLC_VALUE == Facsimile Group 4 Class I
	USI= Unrestricted digital information
VA_04	HLC_VALUE == Teletex service, basic and mixed mode of operation and facsimile service
	Group 4, Classes II and III
	USI= Unrestricted digital information
VA_05	HLC_VALUE == Teletex service, basic and processable mode of operation
	USI= Unrestricted digital information
VA_06	HLC_VALUE = Teletex service, basic mode of operation
	USI= Unrestricted digital information
VA_07	HLC_VALUE = Syntax based Videotex
	USI= Unrestricted digital information
VA_08	HLC_VALUE = International Videotex interworking via gateways or interworking units
	USI= Unrestricted digital information
VA_09	HLC_VALUE = Telex service
	USI= Unrestricted digital information
VA_10	HLC_VALUE = Message Handling Systems (MHS)
	USI= Unrestricted digital information
VA_11	HLC_VALUE = OSI application
	USI= Unrestricted digital information
VA_12	HLC_VALUE = Audio visual
	USI= Unrestricted digital information

TP101018	SIP reference: RFC 3	3261 [4]		_	SUP reference:	
					2.5 [1], clause 6.1.3.9	
TSS reference	SIP-ISUP/Basic call/Sending	of the Initial	Address Mes	ssage (	IAM)	
SIP selection criteria	NOT PICS 4/4 and NOT PICS	S 4/5				
ISUP selection criteria	PICS 4/3					
Test purpose	Ensure that the MGCF acting as an independent exchange and shall perform the normal BICC/ISUP Hop Counter procedure using the Hop Counter taken from the encapsulated IAM if the Hop Counter parameter is available.  The initial and successively mapped values of Hop Counter should be large enough to accommodate the maximum number of hops that might be expected of a validly routed call.					
SIP parameter values	Max-Forwards header					
ISUP parameter values	IAM: Hop Counter parameter	value				
Comments	SIP-I		SUT		ISUP	
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM	
	180 Ringing(ACM)	+		+	ACM	
	200 OK INVITE(ANM) ← ANM ACK					
		Coi	nversation			
	BYE(REL)	→		<b>→</b>	REL	
	200 OK BYE(RLC)	+		+	RLC	

TP101019	SIP reference: RFC 32		IS	SUP reference:			
			Q.	1912	2.5 [1], clause 6.1.3.1		
TSS reference	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)						
SIP selection	PICS 1/9 AND NOT PICS 4/4 a	and NOT PICS	S 4/5				
criteria							
ISUP selection	NOT PICS 1/7						
criteria							
Test purpose	Ensure that the SUT on receipt of an INVITE message with a Called party number contained in the user info component of the Request-URI.  Send an IAM Message with the called party number coded as follows:  Nature of address indicator: Analyse the information contained in received URI with user=phone, and if it is in the format: +CC NDC SN where CC is the country code of the network in which the next hop terminates, then set Nature of Address indicator to "National (significant) number", remove "+CC" and use the remaining digits to fill the Address signals".  Internal Network Number Indicator: routing to internal network number not allowed.  Numbering plan Indicator 001 ISDN (Telephony) numbering plan;  Address Signals: NDC SN.						
SIP parameter values							
ISUP parameter values	IAM: Called party number						
Comments	SIP-I		SUT		ISUP		
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM		
	180 Ringing(ACM)	+		<del>(</del>	ACM		
	200 OK INVITE(ANM)	<del>-</del>		<del>(</del>	ANM		
	ACK	<b>→</b>					
			ersation				
	BYE(REL)	<b>→</b>		<u>→</u>	REL		
	200 OK BYE(RLC)	<del>-</del>		<b>←</b>	RLC		

TP101020	SIP reference: RFC	3261 [4]		ISUP reference:				
		020. [.]		2.5 [1], clause 6.1.3.1				
TSS reference	SIP-ISUP/Basic call/Sending	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)						
SIP selection	PICS 1/9 AND NOT PICS 4/							
criteria								
ISUP selection	PICS 1/7							
criteria								
Test purpose	Ensure that the SUT on receipt of an INVITE message with a Called party number contained in the user info component of the Request-URI.  Send an IAM Message with the called party number coded as follows:  Nature of address indicator: Analyse the information contained in received URI with user=phone, and if it is in the format: +CC NDC SN where CC is not the country code of the network in which the next hop terminates, then set Nature of Address indicator to "International number", remove "+" and use the remaining digits to fill the Address signals.  Internal Network Number Indicator: routing to internal network number not allowed Numbering plan Indicator 001 ISDN (Telephony) numbering plan Address Signals CC NDC SN							
SIP parameter values								
ISUP parameter values	IAM: Called party number							
Comments	SIP-I	SL		ISUP				
	INVITE(IAM)	<b>→</b>	→	IAM				
	180 Ringing(ACM)	+	<b>←</b>	ACM				
	200 OK INVITE(ANM)	+	<b>←</b>	ANM				
	ACK	<b>→</b>						
		Conver						
	BYE(REL)	<b>→</b>	<b>→</b>	REL				
	200 OK BYE(RLC)	<del>-</del>	←	RLC				

TP101021	SIP reference: RFC 3	3261 [4]	ISUP reference:				
			EN 383 0	01 [2], clause 6.1.3.5.2.2			
TSS reference	SIP-ISUP/Basic call/Sending	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)					
SIP selection	NOT PICS 4/4 AND NOT PIC	S 4/5 AND PICS	S 1/9				
criteria							
ISUP selection criteria							
Test purpose	Ensure that the SUT on receipt of an INVITE message with a SDP offer for µ-Law and a-Law, then independent from the received order of preference:  the G.711 a-law codec shall be returned in the SDP answer as preferred codec.						
SIP parameter	Offer: m=audio 4711 RTF	P/AVP 0 8					
values	Answer: m=audio 4712 RTF	P/AVP 8 0					
ISUP parameter values							
Comments	SIP-I	SU	JT	ISUP			
	INVITE(IAM)	<b>→</b>	<b>→</b>	IAM			
	180 Ringing(ACM)	+	+	ACM			
	200 OK INVITE(ANM)	+	<b>←</b>	ANM			
	ACK	<b>→</b>					
		Conver	sation				
	BYE(REL)	<b>→</b>	<b>→</b>	REL			
	200 OK BYE(RLC)	+	+	RLC			

TP101022	SIP reference: RFC 3	3261 [4]			_	SUP reference:
				EN	383 O	01 [2], clause 6.1.3.5.2.2
TSS reference	SIP-ISUP/Basic call/Sending			ress Mes	sage	(IAM)
SIP selection	PICS 4/4 AND PICS 4/5 AND	PICS 1	/9			
criteria						
ISUP selection	PICS 1/4 AND NOT PICS 1/6	AND P	ICS 4/1			
criteria						
Test purpose	Ensure that the SUT on recei					
	a-Law 100rel extensions and					SIP Supported header, <b>then</b>
	independent from the receive					
						with the coding of the Nature
	of Connection Indicators					
	<ul> <li>the G.711 a-law codec sl</li> </ul>	nall be r	eturned i	n the SDI	o ans	wer as preferred codec.
SIP parameter	Offer: m=audio 4711 RTF		-			
values	Answer: m=audio 4712 RTF					
ISUP parameter	IAM: Continuity Indicator: CO			<b>d</b> , USI: A	-law c	or absent
values	COT: Continuity Indicator: co	ntinuity				_
Comments	SIP-I		SL	JT		ISUP
	INVITE(IAM)	<b>→</b>			<b>→</b>	IAM
	183 Session Progress	+				
	PRACK	<b>→</b>				
	200 OK PRACK	+				
	UPDATE	<b>→</b>			<b>→</b>	COT
	200 OK UPDATE	<b>←</b>				
	180 Ringing(ACM)	+			+	ACM
	200 OK INVITE(ANM)	+			+	ANM
	ACK	<b>→</b>				
			Conver	sation		
	BYE(REL)	<b>→</b>			<b>→</b>	REL
	200 OK BYE(RLC)	+			+	RLC

TP101023	SIP reference: RFC 3	261 [4]		ISUP reference:			
			EN 383 0	01 [2], clause 6.1.3.5.2.2			
TSS reference	SIP-ISUP/Basic call/Sending	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)					
SIP selection	PICS 4/4 AND PICS 4/5 AND	PICS 4/4 AND PICS 4/5 AND PICS 1/9					
criteria							
ISUP selection	PICS 1/4 AND NOT PICS 1/6	AND PICS 4/1					
criteria							
Test purpose	Ensure that the SUT on receip						
	a-Law 100rel extensions and			SIP Require header, <b>then</b>			
	independent from the receive						
				with the coding of the Nature			
	of Connection Indicators						
	<ul> <li>the G.711 a-law codec sł</li> </ul>	nall be returned	in the SDP ans	wer as preferred codec.			
SIP parameter	Offer: m=audio 4711 RTF	,					
values	Answer: m=audio 4712 RTF						
ISUP parameter	IAM: Continuity Indicator: CO		<b>ed</b> , USI: A-law o	or absent			
values	COT: Continuity Indicator: co						
Comments	SIP-I		UT	ISUP			
	INVITE(IAM)	<b>→</b>	<b>→</b>	IAM			
	183 Session Progress	+					
	PRACK	<b>→</b>					
	200 OK PRACK	+					
	UPDATE	<b>→</b>	<b>→</b>	COT			
	200 OK UPDATE	+					
	180 Ringing(ACM)	+	<b>←</b>	ACM			
	200 OK INVITE(ANM)	+	+	ANM			
	ACK	<b>→</b>					
		Conve	rsation				
	BYE(REL)	<b>→</b>	<b>→</b>	REL			
	200 OK BYE(RLC)	+	+	RLC			

TP101024	SIP reference: RFC 3	3261 [4]		ISUP reference:			
				001 [2], clause 6.1.3.5.2.2			
TSS reference	SIP-ISUP/Basic call/Sending		dress Message	(IAM)			
SIP selection	PICS 4/4 AND PICS 4/5 AND	PICS 4/4 AND PICS 4/5 AND PICS 1/9					
criteria							
ISUP selection	PICS 1/5 AND NOT PICS 1/6	AND PICS 4/1					
criteria							
Test purpose	Ensure that the SUT on recei						
				e SIP Supported header, <b>then</b>			
	independent from the recei						
				with the Continuity check			
	indicator "continuity che		n this circuit" (	or " continuity check			
	performed on previous						
OID	• the G.711 a-law codec sl		in the SDP and	swer as preferred codec.			
SIP parameter	Offer: m=audio 4711 RTF						
values	Answer: m=audio 4712 RTF						
ISUP parameter				is circuit or continuity check			
values	performed on previous circ COT: Continuity Indicator: co						
Comments	SIP-I		UT	ISUP			
Comments	INVITE(IAM)	<b>→</b>	• • • • • • • • • • • • • • • • • • •	IAM			
	183 Session Progress	<del>-</del>		IAIVI			
	PRACK	<b>→</b>					
	200 OK PRACK	<del></del>					
	UPDATE	<b>→</b>	→	СОТ			
	200 OK UPDATE	<del></del>	7	COI			
		<del>-</del>	<b>+</b>	ACM			
	180 Ringing(ACM)	<del>-</del>					
	200 OK INVITE(ANM) ACK	<b>→</b>		ANM			
	ACK		rsation				
	DVE(DEL)	→ Conve	rsation	DEL			
	BYE(REL)	=		REL			
	200 OK BYE(RLC)	+	+	RLC			

TP101025	SIP reference: RFC 3	3261 [4]		ISUP reference:					
				01 [2], clause 6.1.3.5.2.2					
TSS reference	SIP-ISUP/Basic call/Sending		ress Message	(IAM)					
SIP selection	PICS 4/4 AND PICS 4/5 AND	PICS 1/9							
criteria									
ISUP selection	PICS 1/5 AND NOT PICS 1/6	AND PICS 4/1							
criteria									
Test purpose	Ensure that the SUT on receipt of an INVITE message with a SDP offer for μ-Law and								
	a-Law 100rel extensions and preconditions extensions in the SIP Require header, then								
		<ul> <li>independent from the received order of preference:</li> <li>the IAM shall be sent out immediately on the ISUP side with the Continuity check</li> </ul>							
		ck required on	this circuit""	continuity check performed					
	· ·	on previous circuit";							
OID		• the G.711 a-law codec shall be returned in the SDP answer as preferred codec.							
SIP parameter	Offer: m=audio 4711 RTF								
values	Answer: m=audio 4712 RTF	,,,,,							
ISUP parameter values	performed on previous			s circuit or continuity check					
values	COT: Continuity Indicator: co								
Comments	SIP-I	Sl		ISUP					
Comments	INVITE(IAM)	<b>→</b>	→	IAM					
	183 Session Progress	<del>-</del>	7	IAIVI					
	PRACK	<b>→</b>							
	200 OK PRACK	+							
	UPDATE	<b>→</b>	<b>→</b>	COT					
	200 OK UPDATE	+	7	COT					
	180 Ringing(ACM)	+	+	ACM					
	200 OK INVITE(ANM)	+	+	ANM					
	ACK	<b>→</b>		ANIVI					
	AGR	Conver	reation						
	BYE(REL)	→ Conver	Sation	REL					
		<del>7</del>	<del>-</del>						
	200 OK BYE(RLC)	7		RLC					

TP101026	SIP reference: RFC 3261 [4]				ISUP reference:				
					01 [2], clause 6.1.3.5.2.2				
TSS reference	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)								
SIP selection	PICS 4/4 AND PICS 4/5 AN	PICS 4/4 AND PICS 4/5 AND PICS 1/9							
criteria									
ISUP selection	PICS 1/5 AND NOT PICS 1	1/6 AND NOT P	CS 4/1						
criteria									
Test purpose	Ensure that the SUT on red								
					SIP Supported header, <b>then</b>				
	independent from the rec								
	<ul> <li>the shall be deferred u</li> </ul>								
	<ul> <li>the G.711 a-law coded</li> </ul>	shall be returne	ed in the S	SDP ans	wer as preferred codec.				
SIP parameter	Offer: m=audio 4711 R	TP/AVP 0 8							
values	Answer: m=audio 4712 R	TP/AVP 8 0							
ISUP parameter									
values									
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	<b>→</b>							
	183 Session Progress	+							
	PRACK	<b>→</b>							
	200 OK PRACK	+							
	UPDATE	→		→	IAM				
	200 OK UPDATE	<del>(</del>							
	180 Ringing(ACM)	←		<b>←</b>	ACM				
	200 OK INVITE(ANM)	+		+	ANM				
	ACK	→							
		Con	versation						
	BYE(REL)	→		<b>→</b>	REL				
	200 OK BYE(RLC)	<b>←</b>		+	RLC				

TP101027	SIP reference: RFC 3261 [4]				ISUP reference:				
						01 [2], clause 6.1.3.5.2.2			
TSS reference	SIP-ISUP/Basic call/Sending	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)							
SIP selection	PICS 4/4 AND PICS 4/5 AND	PICS 4/4 AND PICS 4/5 AND PICS 1/9							
criteria									
ISUP selection	PICS 1/5 AND NOT PICS 1/6	PICS 1/5 AND NOT PICS 1/6 AND NOT PICS 4/1							
criteria									
Test purpose	Ensure that the SUT on receipt of an INVITE message with a SDP offer for μ-Law and								
	a-Law 100rel extensions and					SIP Require header, <b>then</b>			
	independent from the recei		-						
	<ul> <li>the shall be deferred unt</li> </ul>								
		• the G.711 a-law codec shall be returned in the SDP answer as preferred codec.							
SIP parameter	Offer: m=audio 4711 RT		-						
values	Answer: m=audio 4712 RT	P/AVP 8	0						
ISUP parameter									
values						_			
Comments	SIP-I		SU	Т		ISUP			
	INVITE(IAM)	→							
	183 Session Progress	+							
	PRACK	<b>→</b>							
	200 OK PRACK	+							
	UPDATE	→			<b>→</b>	IAM			
	200 OK UPDATE	+							
	180 Ringing(ACM)	<b>←</b>			+	ACM			
	200 OK INVITE(ANM)	+			+	ANM			
	ACK	<b>→</b>							
			Conver	sation					
	BYE(REL)	<b>→</b>			<b>→</b>	REL			
	200 OK BYE(RLC)	+			+	RLC			

TP101028	SIP reference: RFC 3261 [4]			ISUP reference: EN 383 001 [2], clause 6.1.3.5.2.2					
TSS reference	SIP-ISUP/Basic call/Sending	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)							
SIP selection	NOT PICS 4/4 AND NOT PI	NOT PICS 4/4 AND NOT PICS 4/5 AND PICS 1/9							
criteria									
ISUP selection criteria	PICS 1/7								
Test purpose	Ensure that the SUT on receipt of an INVITE message with a SDP offer for a-Law and no µ-Law, then independent the normal offer answer procedures apply:  • the G.711 a-law codec shall be returned in the SDP answer.								
SIP parameter	Offer: m=audio 4711 R	TP/AVP 8	3						
values	Answer: m=audio 4711 R	TP/AVP 8	3						
ISUP parameter values									
Comments	SIP-I		SU	Т		ISUP			
	INVITE(IAM)	<b>→</b>			<b>→</b>	IAM			
	180 Ringing(ACM) ← ACM								
	200 OK INVITE(ANM) ← ANM								
	ACK →								
	Conversation								
	BYE(REL)	<b>→</b>			<b>→</b>	REL			
	200 OK BYE(RLC)	RLC							

TP101029	SIP reference: RFC 3261 [4]			ı	SUP reference:				
						01 [2], clause 6.1.3.5.2.2			
TSS reference	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)								
SIP selection	PICS 4/4 AND PICS 4/5 AND PICS 1/9								
criteria									
ISUP selection	PICS 1/4 AND NOT PICS 1/6 AND PICS 4/1								
criteria									
Test purpose	Ensure that the SUT on receipt of an INVITE message with a SDP offer for a-Law and no								
						SIP Supported header, <b>then</b>			
	independent the normal of								
						with the coding of the Nature			
	of Connection Indicator								
	the G.711 a-law codec shall be returned in the SDP answer.								
SIP parameter	Offer: m=audio 4711 RTP/AVP 8								
values	Answer: m=audio 4711 R								
ISUP parameter	IAM: Continuity Indicator: Co		expecte	d, USI: A	-law o	or absent			
values	COT: Continuity Indicator: c	ontinuity			1	lious			
Comments	SIP-I		SU	) [		ISUP			
	INVITE(IAM)	<b>→</b>			<b>→</b>	IAM			
	183 Session Progress	<b>+</b>							
	PRACK	<b>→</b>							
	200 OK PRACK	+				207			
	UPDATE	<b>→</b>			<b>→</b>	СОТ			
	200 OK UPDATE	+							
	100 B: : (A 014)		Preconditi	ons met	T	1001			
	180 Ringing(ACM)	+			<b>←</b>	ACM			
	200 OK INVITE(ANM)	+			+	ANM			
	ACK	<b>→</b>							
			Convers	sation					
	BYE(REL)	<b>→</b>			<b>→</b>	REL			
	200 OK BYE(RLC)	+			<b>←</b>	RLC			

TP101030	SIP reference: RFC 3261 [4]		ISUP reference:					
				EN:	383 0	01 [2], clause 6.1.3.5.2.2		
TSS reference	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)							
SIP selection	PICS 4/4 AND PICS 4/5 AND PICS 1/9							
criteria								
ISUP selection	PICS 1/4 AND NOT PICS 1/6 AND PICS 4/1							
criteria								
Test purpose	Ensure that the SUT on receip							
	μ-Law 100rel extensions and					SIP Require header, then		
	independent the normal offe							
						with the coding of the Nature		
	of Connection Indicators							
	the G.711 a-law codec shall be returned in the SDP answer.							
SIP parameter	Offer: m=audio 4711 RTP/AVP 8							
values	Answer: m=audio 4711 RTF							
ISUP parameter	IAM: Continuity Indicator: CO			d, USI: A	-law o	r absent		
values	COT: Continuity Indicator: co	ntinuit						
Comments	SIP-I		SU	Т		ISUP		
	INVITE(IAM)	<b>→</b>			<b>→</b>	IAM		
	183 Session Progress	<b>←</b>						
	PRACK	<b>→</b>						
	200 OK PRACK	<b>←</b>						
	UPDATE	<b>→</b>			<b>→</b>	COT		
	200 OK UPDATE	+						
			Preconditi	ons met				
	180 Ringing(ACM)	+			+	ACM		
	200 OK INVITE(ANM)	+			+	ANM		
	ACK	<b>→</b>						
			Conver	sation				
	BYE(REL)	<b>→</b>			<b>→</b>	REL		
	200 OK BYE(RLC)	<b>←</b>			<b>←</b>	RLC		

TP101031	SIP reference: RFC 3261 [4]		- EN 6		SUP reference:				
						01 [2], clause 6.1.3.5.2.2			
TSS reference	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)								
SIP selection	PICS 4/4 AND PICS 4/5 AND PICS 1/9								
criteria									
ISUP selection	PICS 1/5 AND NOT PICS 1/6 AND PICS 4/1								
criteria									
Test purpose	Ensure that the SUT on receipt of an INVITE message with a SDP offer for a-Law and no								
	μ-Law 100rel extensions and preconditions extensions in the SIP Supported header, <b>then</b>								
	independent the normal of								
						with the Continuity check			
	indicator "continuity ch			this circu	ı <b>t</b> " or	"continuity check			
	performed on previous circuit";								
OID	the G.711 a-law codec shall be returned in the SDP answer.								
SIP parameter	Offer: m=audio 4711 RT								
values	Answer: m=audio 4711 RT				41.1				
ISUP parameter						s circuit or continuity check			
values	performed on previous COT: Continuity Indicator: co					I .			
Comments	SIP-I	Intilituity	SU		<u> </u>	ISUP			
Comments	INVITE(IAM)	<b>→</b>	- 30	ı	<b>→</b>	IAM			
	183 Session Progress	+				IAW			
	PRACK	<b>→</b>							
	200 OK PRACK	<del>-</del>							
	UPDATE	<b>→</b>			<b>→</b>	COT			
	200 OK UPDATE	+				001			
	200 OK OF BATE		recondition	ons met					
	180 Ringing(ACM)	<del>(</del>	COOTIGIL	1110 11100	+	ACM			
	200 OK INVITE(ANM)	+			<del>_</del>	ANM			
	ACK	<del>  •</del>							
	,	<del>  -  </del>	Convers	ation					
	BYE(REL)	<b>→</b>			<b>→</b>	REL			
	200 OK BYE(RLC)	+			<del>-</del>	RLC			
	1200 ON BTE(NEO)					ILLEO			

TP101032	SIP reference: RFC 3261 [4]		]			ISUP reference:			
				EN	I 383 0	01 [2], clause 6.1.3.5.2.2			
TSS reference	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)								
SIP selection	PICS 4/4 AND PICS 4/5 AND	PICS '	1/9						
criteria									
ISUP selection	PICS 1/5 AND NOT PICS 1/6 AND PICS 4/1								
criteria									
Test purpose	Ensure that the SUT on receipt of an INVITE message with a SDP offer for a-Law and no								
	μ-Law 100rel extensions and preconditions extensions in the SIP Require header, <b>then independent the normal offer answer procedures apply:</b>								
						with the Continuity check			
	indicator "continuity che performed on previous			tnis cire	cuit o	r continuity check			
	the G.711 a-law codec sl			n tha ST	D and	wor			
SIP parameter	Offer: m=audio 4711 RTI			i tile SL	JF alls	wei.			
values	Answer: m=audio 4711 RTI		-						
ISUP parameter				auired	on thi	s circuit or continuity check			
values	performed on previous circ								
	COT: Continuity Indicator: co								
Comments	SIP-I		SU	Т		ISUP			
	INVITE(IAM)	<b>→</b>			<b>→</b>	IAM			
	183 Session Progress	+							
	PRACK	→							
	200 OK PRACK	+							
	UPDATE	<b>→</b>			→	COT			
	200 OK UPDATE	+							
			Preconditi	ons met					
	180 Ringing(ACM)	<b>←</b>			+	ACM			
	200 OK INVITE(ANM)	+			+	ANM			
	ACK	<b>→</b>							
	D)(E(DEL)		Conver	sation		DEL			
	BYE(REL)	<b>→</b>			<b>→</b>	REL			
	200 OK BYE(RLC)	+			+	RLC			

TP101033	SIP reference: RFC 3261 [4]				ISUP reference:			
				EN	383 0	01 [2], clause 6.1.3.5.2.2		
TSS reference	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)							
SIP selection	PICS 4/4 AND PICS 4/5 AND PICS 1/9							
criteria								
ISUP selection	NOT PICS 1/6 AND NOT PI	ICS 4/1						
criteria								
Test purpose	Ensure that the SUT on receipt of an INVITE message with a SDP offer for a-Law and no							
						SIP Supported header, <b>then</b>		
	independent the normal of							
	the IAM shall be deferred							
	the G.711 a-law codec shall be returned in the SDP answer.							
SIP parameter	Offer: m=audio 4711 R							
values	Answer: m=audio 4711 R	TP/AVP 8						
ISUP parameter								
values	OID I			· <del>-</del>	1	LOUID		
Comments	SIP-I	+ _ +	SL	) <u> </u>		ISUP		
	INVITE(IAM)	<b>→</b>						
	183 Session Progress	+						
	PRACK	<b>→</b>						
	200 OK PRACK	+						
	UPDATE	<b>→</b>			<b>→</b>	IAM		
	200 OK UPDATE	+						
	180 Ringing(ACM)	+			+	ACM		
	200 OK INVITE(ANM)	+			+	ANM		
	ACK	→						
			Conver	sation				
	BYE(REL)	<b>→</b>			<b>→</b>	REL		
	200 OK BYE(RLC)	<b>←</b>			<b>←</b>	RLC		

TP101034	SIP reference: RFC	3261 [4]			ISUP reference:
				EN 383	001 [2], clause 6.1.3.5.2.2
TSS reference	SIP-ISUP/Basic call/Sending			ress Message	(IAM)
SIP selection	PICS 4/4 AND PICS 4/5 AND	) PICS 1/9	9		
criteria					
ISUP selection	NOT PICS 1/6 AND NOT PIC	CS 4/1			
criteria					
Test purpose					a SDP offer for a-Law and no
	μ-Law 100rel extensions and				
	independent the normal off				
	<ul> <li>the IAM shall be deferred</li> </ul>				
	<ul> <li>the G.711 a-law codec s</li> </ul>		turned i	n the SDP ans	swer.
SIP parameter	Offer: m=audio 4711 RT				
values	Answer: m=audio 4711 RT	P/AVP 8			
ISUP parameter					
values					
Comments	SIP-I		SU	T	ISUP
	INVITE(IAM)	→			
	183 Session Progress	<b>←</b>			
	PRACK	→			
	200 OK PRACK	+			
	UPDATE	→		→	IAM
	200 OK UPDATE	+			
	180 Ringing(ACM)	<b>←</b>		+	ACM
	200 OK INVITE(ANM)	+		+	ANM
	ACK	→			
			Convers	sation	
	BYE(REL)	<b>→</b>		<b>→</b>	REL
	200 OK BYE(RLC)	+		+	RLC

TP101035	SIP reference: RFC 3	3261 [4]	_	SUP reference: 01 [2], clause 6.1.3.5.2.2			
TSS reference	SID-ISI ID/Rasic call/Sending	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)					
SIP selection	NOT PICS 4/4 AND NOT PIC			(IAIVI)			
	INOT PICS 4/4 AND NOT PIC	3 4/5 AND PIC	5 1/9				
criteria	DIGG 4 /7						
ISUP selection criteria	PICS 1/7						
Test purpose	Ensure that the SUT on recei	pt of an INVITE	message with a	SDP offer m line without			
	a-law codec:						
	• the u-law codec shall be	rejected.					
SIP parameter	Offer: m=audio 4711 RTI	P/AVP 0					
values	m=audio 4712 RTF	P/AVP 8					
	Answer: m=audio 0 RTP/A\	/P 0					
ISUP parameter							
values							
Comments	SIP-I	Sl	JT	ISUP			
	INVITE(IAM)	<b>→</b>	<b>→</b>	IAM			
	180 Ringing(ACM)	+	+	ACM			
	200 OK INVITE(ANM)	+	+	ANM			
	ACK	<b>→</b>					
		Conver	sation				
	BYE(REL)	<b>→</b>	<b>→</b>	REL			
	200 OK BYE(RLC)	+	+	RLC			

TP101036	SIP reference: RFC 3	3261 [4]		-	ISUP reference:
					01 [2], clause 6.1.3.5.2.2
TSS reference	SIP-ISUP/Basic call/Sending		ddress	Message	(IAM)
SIP selection	PICS 4/4 AND PICS 4/5 AND	PICS 1/9			
criteria					
ISUP selection	PICS 1/4 AND NOT PICS 1/6	AND PICS 4	/1		
criteria					
Test purpose	Ensure that the SUT on recei				
					s in the SIP Supported header:
					with the coding of the Nature
	of Connection Indicators		COT to b	e expect	ed";
	<ul> <li>the u-law codec shall b</li> </ul>	•			
SIP parameter	Offer: m=audio 4711 RTF				
values	m=audio 4712 RTF				
	Answer: m=audio 0 RTP/A\				
ISUP parameter	IAM: Continuity Indicator: CO	•	cted, US	SI: A-law c	or absent
values	COT: Continuity Indicator: co	ntinuity		•	
Comments	SIP-I		SUT		ISUP
	INVITE(IAM)	<b>→</b>		→	IAM
	183 Session Progress	+			
	PRACK	<b>→</b>			
	200 OK PRACK	+			
	UPDATE	<b>→</b>		→	COT
	200 OK UPDATE	+			
			nditions i		
	180 Ringing(ACM)	<del>-</del>		+	ACM
	200 OK INVITE(ANM)	+		+	ANM
	ACK	<b>→</b>			
			versatio		
	BYE(REL)	<b>→</b>		→	REL
	200 OK BYE(RLC)	<b>←</b>		<b>←</b>	RLC

TP101037	SIP reference: RFC 3261 [4]		ISUP reference:			
						01 [2], clause 6.1.3.5.2.2
TSS reference	SIP-ISUP/Basic call/Sending	of the In	itial Add	ress Mes	sage (	(IAM)
SIP selection	PICS 4/4 AND PICS 4/5 AND	PICS 1	/9			
criteria						
ISUP selection	PICS 1/4 AND NOT PICS 1/6	AND P	ICS 4/1			
criteria						
Test purpose	Ensure that the SUT on receip					
	a-law codec 100rel extension					
						with the coding of the Nature
	of Connection Indicators			Γ to be ex	kpect(	ed";
	the u-law codec shall be					
SIP parameter	Offer: m=audio 4711 RTF	-				
values	m=audio 4712 RTF					
	Answer: m=audio 0 RTP/A\					
ISUP parameter	IAM: Continuity Indicator: CO			d, USI: A	-law o	r absent
values	COT: Continuity Indicator: co	ntinuity				
Comments	SIP-I	_	SU	<u>IT</u>		ISUP
	INVITE(IAM)	<b>→</b>			<b>→</b>	IAM
	183 Session Progress	+				
	PRACK	<b>→</b>				
	200 OK PRACK	+				
	UPDATE	<b>→</b>			<b>→</b>	COT
	200 OK UPDATE	+				
			reconditi	ons met		
	180 Ringing(ACM)	+			+	ACM
	200 OK INVITE(ANM)	+			+	ANM
	ACK	→				
			Conver	sation		
	BYE(REL)	<b>→</b>			<b>→</b>	REL
	200 OK BYE(RLC)	<b>←</b>			<b>←</b>	RLC

TP101038	SIP reference: RFC 3	3261 [4]			SUP reference:		
<b></b>					01 [2], clause 6.1.3.5.2.2		
TSS reference		SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)					
SIP selection	PICS 4/4 AND PICS 4/5 AND	PICS 1/9					
criteria	DIOC 4/5 AND NOT DIOC 4/0	AND DIGO	/4				
ISUP selection criteria	PICS 1/5 AND NOT PICS 1/6						
Test purpose	Ensure that the SUT on receipt of an INVITE message with a SDP offer m line without						
					in the SIP Supported header:		
	<ul> <li>the IAM shall be sent out</li> </ul>						
	indicator "continuity che		on this	circuit" or	"continuity check		
	performed on previous						
	the u-law codec shall be						
SIP parameter	Offer: m=audio 4711 RTF						
values	m=audio 4712 RTF						
	Answer: m=audio 0 RTP/A\						
ISUP parameter					s circuit or continuity check		
values	performed on previous				t		
0	COT: Continuity Indicator: co	ntinuity cne		esstui	LOUD		
Comments	SIP-I		SUT		ISUP		
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM		
	183 Session Progress	+					
	PRACK	<b>→</b>					
	200 OK PRACK	+			207		
	UPDATE	<b>→</b>		<b>→</b>	СОТ		
	200 OK UPDATE	+	11.01				
	122 21 (1218)		nditions		1.01		
	180 Ringing(ACM)	<b>←</b>		<del>-</del>	ACM		
	200 OK INVITE(ANM)	+		+	ANM		
	ACK	<b>→</b>					
	5)(5(551)		versatio		551		
	BYE(REL)	<b>→</b>		<b>→</b>	REL		
	200 OK BYE(RLC)	+		+	RLC		

TP101039	SIP reference: RFC	3261 [4]				ISUP reference:	
						01 [2], clause 6.1.3.5.2.2	
TSS reference		SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)					
SIP selection	PICS 4/4 AND PICS 4/5 AND	PICS 1	/9				
criteria							
ISUP selection	PICS 1/5 AND NOT PICS 1/6	6 AND P	ICS 4/1				
criteria							
Test purpose		Ensure that the SUT on receipt of an INVITE message with a SDP offer m line without					
	a-law codec 100rel extensio						
						with the Continuity check	
	indicator "continuity ch			nis circui	IT" O	continuity cneck	
	<ul> <li>performed on previous</li> <li>the u-law codec shall be</li> </ul>						
SIP parameter	the u-law codec shall be Offer: m=audio 4711 RT						
values	m=audio 4711 RT						
values	Answer: m=audio 0 RTP/A	-					
ISUP parameter			check re	auired on	thi	s circuit or continuity check	
values	performed on previous circ						
	COT: Continuity Indicator: co				I		
Comments	SIP-I		SU <sup>*</sup>	T		ISUP	
	INVITE(IAM)	<b>→</b>			<b>→</b>	IAM	
	183 Session Progress	+					
	PRACK	→					
	200 OK PRACK	+					
	UPDATE	→			<b>→</b>	COT	
	200 OK UPDATE	+					
			recondition				
	180 Ringing(ACM)	+			<u>+</u>	ACM	
	200 OK INVITE(ANM)	+			<del>-</del>	ANM	
	ACK	<b>→</b>					
	DVE(DEL)		Convers		_	DEL	
	BYE(REL)	<b>→</b>			<del>)</del>	REL	
	200 OK BYE(RLC)	<b>+</b>			<del>(</del>	RLC	

TP101040	SIP reference: RFC 3	3261 [4]			ISUP reference:	
				EN 383	3 001 [2], clause 6.1.3.5.2	.2
TSS reference	SIP-ISUP/Basic call/Sending			ress Messag	e (IAM)	
SIP selection	PICS 4/4 AND PICS 4/5 AND	PICS 1/	9			
criteria						
ISUP selection	NOT PICS 1/6 AND NOT PIC	CS 4/1				
criteria						
Test purpose	Ensure that the SUT on recei					
	a-law codec 100rel extension					eader:
	<ul> <li>the IAM shall be deferred</li> </ul>			litions have	peen met;	
	<ul> <li>the u-law codec shall b</li> </ul>	•	ed.			
SIP parameter	Offer: m=audio 4711 RTF					
values	m=audio 4712 RTF	-				
	Answer: m=audio 0 RTP/A\	√P 0				
ISUP parameter						
values				_	1	
Comments	SIP-I		SU	Т	ISUP	
	INVITE(IAM)	<b>→</b>				
	183 Session Progress	<b>←</b>				
	PRACK	<b>→</b>				
	200 OK PRACK	+				
	UPDATE	→		-	IAM	
	200 OK UPDATE	+				
		<u> </u>	reconditi	ons met		
	180 Ringing(ACM)	+		•	7.0	
	200 OK INVITE(ANM)	+		•	- ANM	
	ACK	→				
			Convers	sation		
	BYE(REL)	<b>→</b>		-		
	200 OK BYE(RLC)	<b>←</b>		•	- RLC	

TP101041	SIP reference: RF0	C 3261 [4]	]		_	SUP reference:
						01 [2], clause 6.1.3.5.2.2
TSS reference	SIP-ISUP/Basic call/Sendir	ng of the I	nitial Add	ress Messa	ige i	(IAM)
SIP selection	PICS 4/4 AND PICS 4/5 AN	ND PICS '	1/9			
criteria						
ISUP selection	NOT PICS 1/6 AND NOT F	PICS 4/1				
criteria						
Test purpose	Ensure that the SUT on red					
						s in the SIP Require header:
	<ul> <li>the IAM shall be defer</li> </ul>	red until a	II precond	ditions have	bee	en met;
	<ul> <li>the u-law codec shall</li> </ul>	l be rejec	ted.			
SIP parameter	Offer: m=audio 4711 R	TP/AVP (	)			
values	m=audio 4712 R	TP/AVP 8	3			
	Answer: m=audio 0 RTP/	AVP 0				
ISUP parameter						
values						
Comments	SIP-I		SL	JT		ISUP
	INVITE(IAM)	<b>→</b>				
	183 Session Progress	<b>←</b>				
	PRACK	<b>→</b>				
	200 OK PRACK	<b>←</b>				
	UPDATE	<b>→</b>		·	<b>→</b>	IAM
	200 OK UPDATE	+				
		F	Preconditi	ions met		
	180 Ringing(ACM)	+			<del>(</del>	ACM
	200 OK INVITE(ANM)	+			<b>←</b>	ANM
	ACK	<b>→</b>				
			Conver	sation		
	BYE(REL)	<b>→</b>		,	<b>→</b>	REL
	200 OK BYE(RLC)	+			<del>(</del>	RLC

TP101042	SIP reference: RFC 3261	[4]	EN 3	ISUP reference: 383 001 [2], clause 6.1.3.5.2.2		
TSS reference	SIP-ISUP/Basic call/Sending of the	Initial A				
SIP selection	NOT PICS 4/4 AND NOT PICS 4/5					
criteria						
ISUP selection	NOT PICS 1/6					
criteria						
Test purpose	Ensure that the SUT on receipt of a	an INVIT	E message v	with a SDP offer with more than		
	one media streams and based or	n operat	or policy th	en:		
	<ul> <li>the call is refused with a 415</li> </ul>	Unsupp	orted medi	a type response.		
SIP parameter	Offer: m=audio 4711 RTP/AVP 8					
values	m= audio 4712 RTP/AVP 8					
ISUP parameter						
values						
Comments	SIP-I		SUT	ISUP		
	INVITE(IAM)					
	415 Unsupported media type	+				
	ACK	<b>→</b>				

TP101043	SIP reference: RFC 3261	[4]		ISUP reference:		
			EN	383 001 [2], clause 6.1.3.5.2.2		
TSS reference	SIP-ISUP/Basic call/Sending of the	e Initial Ac	dress Mes	sage (IAM)		
SIP selection	PICS 4/4 AND PICS 4/5 AND PICS	S 1/9 AND	PICS 4/19	9		
criteria						
ISUP selection	NOT PICS 1/6					
criteria						
Test purpose	Ensure that the SUT on receipt of					
				ns extensions in the SIP Supported		
	header: and based on operator p	-				
	the call is refused with a 415 Unsupported media type response.					
SIP parameter	Offer: m=audio 4711 RTP/AVP 8					
values	m= audio 4712 RTP/AVP 8	1				
ISUP parameter						
values						
Comments	SIP-I		SUT	ISUP		
	INVITE(IAM)	<b>→</b>				
	415 Unsupported media type	+				
	ACK	<b>→</b>				

TP101044	SIP reference: RFC 3261	4]		ISUP reference:	
			EN	383 001 [2], clause 6.1.3.5.2.2	
TSS reference	SIP-ISUP/Basic call/Sending of the	Initial A	Address Mes	sage (IAM)	
SIP selection	PICS 4/4 AND PICS 4/5 AND PICS	1/9 AN	ND PICS 4/19	9	
criteria					
ISUP selection	NOT PICS 1/6				
criteria					
Test purpose	Ensure that the SUT on receipt of a				
	one media streams 100rel extens			ons extensions in the SIP Require	
	header and based on operator po	-			
	<ul> <li>the call is refused with a 415</li> </ul>	Unsup	ported med	lia type response.	
SIP parameter	Offer: m=audio 4711 RTP/AVP 8				
values	m= audio 4712 RTP/AVP 8				
ISUP parameter					
values					
Comments	SIP-I		SUT	ISUP	
	INVITE(IAM)	<b></b>			
	415 Unsupported media type	+			
	ACK	<b>→</b>			

TP101045	SIP reference: RFC 3	3261 [4]	I	SUP reference:		
				01 [2], clause 6.1.3.5.2.2		
TSS reference	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)					
SIP selection	NOT PICS 4/4 AND NOT PIC	S 4/5 AND PICS	3 1/9 AND NOT	PICS 4/19		
criteria						
ISUP selection						
criteria						
Test purpose	Ensure that the SUT on receip			SDP offer with more than		
	one media streams and bas					
	<ul> <li>if the SDP offer contains</li> </ul>					
			udio streams sh	all be considered; the other		
	streams shall be rejected					
	• if the SDP offer contains			ms, the IWU shall only		
	consider one, and reject t		S.			
SIP parameter	Offer: m=audio 4711 RTF					
values	m= audio 4712 RT					
	m= video 4713 RTI	P/AVP 31				
	l					
	Answer: m=audio 4711 RTF					
	m=audio 0 RTP/AV					
IOUD	m=video 0 RTP/AV	/P 31				
ISUP parameter values						
Comments	SIP-I	SI	IT	ISUP		
Comments	_	→ St	)	IAM		
	INVITE(IAM)	<del></del>		12. 22.2		
	180 Ringing(ACM)			ACM		
	200 OK INVITE(ANM)	<b>+</b>	<b>←</b>	ANM		
	ACK	<b>→</b>	<u>_</u>			
	D)(E(DEL)	Conver				
	BYE(REL)	<b>→</b>	<b>→</b>	REL		
	200 OK BYE(RLC)	<b>←</b>	<b>←</b>	RLC		

TP101046	SIP reference: RFC 3	3261 [4]			ISUP reference:			
					01 [2], clause 6.1.3.5.2.2			
TSS reference	SIP-ISUP/Basic call/Sending	of the Init	ial Address N	Message	(IAM)			
SIP selection	NOT PICS 4/4 AND NOT PICS 4/5 AND PICS 1/9 AND NOT PICS 4/19							
criteria								
ISUP selection	PICS 1/4 AND NOT PICS 1/6	PICS 1/4 AND NOT PICS 1/6 AND PICS 4/1						
criteria								
Test purpose	Ensure that the SUT on receipt of an INVITE message with a SDP offer with more than one media streams 100rel extensions and preconditions extensions in the SIP Supported							
				ditions ex	tensions in the SIP Supported			
	header: and based on opera				and all the fall black			
	the IAM shall be sent out     of Connection Indicators				with the coding of the Nature			
					streams and one or more			
					nall be considered; the other			
	streams shall be rejected		, the addie of					
	if the SDP offer contains		udio type me	edia strea	ms. the IWU shall only			
	consider one, and reject				,			
SIP parameter	Offer: m=audio 4711 RTF							
values	m= audio 4712 RT	P/AVP 8						
	m= video 4713 RTP/AVP 31							
	Answer: m=audio 4711 RTF							
	m=audio 0 RTP/A\							
ISUP parameter	m=video 0 RTP/A\ IAM: Continuity Indicator: <b>CO</b>		veceted LIC	li A lovi e	ar abaant			
values	COT: Continuity Indicator: <b>co</b>		xpected, US	oi. A-iaw (	or absent			
Comments	SIP-I	littility	SUT		ISUP			
Comments	INVITE(IAM)	<b>→</b>	301	<b>→</b>	IAM			
	183 Session Progress	<del>-</del>			IAW			
	PRACK	<b>→</b>						
	200 OK PRACK	+						
	UPDATE	<b>→</b>		<b>→</b>	COT			
	200 OK UPDATE	+						
		Preco	nditions met					
	180 Ringing(ACM)	+		+	ACM			
	200 OK INVITE(ANM)	+		+	ANM			
	ACK	<b>→</b>						
			Conversation	)				
	BYE(REL)	<b>→</b>		<b>→</b>	REL			
	200 OK BYE(RLC)	+		+	RLC			

TP101047	SIP reference: RFC 3	3261 [4]			ISUP reference:		
					01 [2], clause 6.1.3.5.2.2		
TSS reference	SIP-ISUP/Basic call/Sending	of the Initia	al Address M	lessage	(IAM)		
SIP selection	PICS 4/4 AND PICS 4/5 AND	PICS 1/9	AND NOT P	ICS 4/19	9		
criteria							
ISUP selection	PICS 1/4 AND NOT PICS 1/6	AND PIC	S 4/1				
criteria							
Test purpose	one media streams 100rel en header and based on operate	Ensure that the SUT on receipt of an INVITE message with a SDP offer with more than one media streams 100rel extensions and preconditions extensions in the SIP Require header and based on operator policy then:					
	of Connection Indicators	parameter	: "COT to be	e expect			
	non-audio type media str streams shall be rejected • if the SDP offer contains	eam, only i; several au	the audio str	reams sh	streams and one or more nall be considered; the other ms, the IWU shall only		
SIP parameter	consider one, and reject		treams.				
values	Offer: m=audio 4711 RTF m= audio 4712 RT m= video 4713 RTF	P/AVP 8					
	Answer: m=audio 4711 RTF m=audio 0 RTP/A\ m=video 0 RTP/A\	/P 8					
ISUP parameter	IAM: Continuity Indicator: CO	T to be ex	pected, USI	: A-law o	or absent		
values	COT: Continuity Indicator: co	ntinuity					
Comments	SIP-I		SUT		ISUP		
	INVITE(IAM)	→		→	IAM		
	183 Session Progress	+					
	PRACK	→					
	200 OK PRACK	+					
	UPDATE	→		→	COT		
	200 OK UPDATE	<del>-</del>					
			ditions met				
	180 Ringing(ACM)	+		+	ACM		
	200 OK INVITE(ANM)	+		+	ANM		
	ACK	<b>→</b>					
			onversation				
	BYE(REL)	<b>→</b>		<b>→</b>	REL		
	200 OK BYE(RLC)	+		<b>←</b>	RLC		

TP101048	SIP reference: RFC 3	261 [4]		ISUP reference:			
			EN 383 (	001 [2], clause 6.1.3.5.2.2			
TSS reference	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)						
SIP selection	PICS 4/4 AND PICS 4/5 AND PICS 1/9 AND NOT PICS 4/19						
criteria							
ISUP selection	PICS 1/5 AND NOT PICS 1/6	AND PICS 4/1					
criteria							
SIP parameter values	<ul> <li>Ensure that the SUT on receipt of an INVITE message with a SDP offer with more than one media streams100rel extensions and preconditions extensions in the SIP Supported header: and based on operator policy then:         <ul> <li>the IAM shall be sent out immediately on the ISUP side with the Continuity check indicator "continuity check required on this circuit" or "continuity check performed on previous circuit";</li> <li>if the SDP offer contains one or more audio type media streams and one or more non-audio type media stream, only the audio streams shall be considered; the other streams shall be rejected;</li> <li>if the SDP offer contains several audio type media streams, the IWU shall only consider one, and reject the other streams.</li> </ul> </li> <li>Offer: m=audio 4711 RTP/AVP 8         <ul> <li>m= audio 4712 RTP/AVP 8</li> <li>m= video 4713 RTP/AVP 31</li> </ul> </li> </ul>						
IOUR	Answer: m=audio 4711 RTF m=audio 0 RTP/AV m=video 0 RTP/AV	/P 8 /P 31					
ISUP parameter				is circuit or continuity check			
values	performed on previou			nt			
Comments	COT: Continuity Indicator: co		UT	ISUP			
Comments	INVITE(IAM)	<b>→</b>	→	IAM			
	183 Session Progress	+		IAWI			
	PRACK	<b>→</b>					
	200 OK PRACK	+					
	UPDATE	<b>→</b>	<b>→</b>	СОТ			
	200 OK UPDATE	+					
		Precondition	ns met				
	180 Ringing(ACM)	+	<del>(</del>	ACM			
	200 OK INVITE(ANM)	+	+	ANM			
	ACK	<b>→</b>					
			rsation				
	BYE(REL)	<b>→</b>	<b>→</b>	REL			
	200 OK BYE(RLC)	<del>(</del>	+	RLC			

TP101049	SIP reference: RFC 3	ISUP reference:					
			EN 383	001 [2], clause 6.1.3.5.2.2			
TSS reference	SIP-ISUP/Basic call/Sending of the Initial Address Message (IAM)						
SIP selection	PICS 4/4 AND PICS 4/5 AND PICS 1/9 AND NOT PICS 4/19						
criteria							
ISUP selection	PICS 1/5 AND NOT PICS 1/6	AND PICS 4/1					
criteria							
SIP parameter values	<ul> <li>Ensure that the SUT on receipt of an INVITE message with a SDP offer with more than one media streams 100rel extensions and preconditions extensions in the SIP Require header and based on operator policy then:         <ul> <li>the IAM shall be sent out immediately on the ISUP side with the Continuity check indicator "continuity check required on this circuit" or "continuity check performed on previous circuit";</li> <li>if the SDP offer contains one or more audio type media streams and one or more non-audio type media stream, only the audio streams shall be considered; the other streams shall be rejected;</li> <li>if the SDP offer contains several audio type media streams, the IWU shall only consider one, and reject the other streams.</li> </ul> </li> <li>Offer: m=audio 4711 RTP/AVP 8         <ul> <li>m= audio 4712 RTP/AVP 8</li> <li>m= video 4713 RTP/AVP 31</li> </ul> </li> </ul>						
ISUP parameter	Answer: m=audio 4711 RTF m=audio 0 RTP/AV m=video 0 RTP/AV	/P 8 /P 31	required on th	is circuit or continuity check			
values	performed on previous						
values	COT: Continuity Indicator: co			IL .			
Comments	SIP-I		UT	ISUP			
	INVITE(IAM)	<b>→</b>	<b>→</b>	IAM			
	183 Session Progress	+					
	PRACK	<b>→</b>					
	200 OK PRACK	+					
	UPDATE	<b>→</b>	<b>→</b>	СОТ			
	200 OK UPDATE	+					
		Precondition	ns met				
	180 Ringing(ACM)	+	+	ACM			
	200 OK INVITE(ANM)	+	+	ANM			
	ACK	<b>→</b>					
			ersation				
	BYE(REL)	<b>→</b>	<b>→</b>	REL			
	200 OK BYE(RLC)	<del>-</del>	+	RLC			

TP101050	SIP reference: RF	C 3261 [4]			ISUP reference:	
					01 [2], clause 6.1.3.5.2.2	
TSS reference	SIP-ISUP/Basic call/Sendir	ng of the Ir	nitial Address I	Message	(IAM)	
SIP selection	PICS 4/4 AND PICS 4/5 AI	ND PICS 1	/9 AND NOT	PICS 4/19	e	
criteria						
ISUP selection	NOT PICS 1/6 AND NOT F	PICS 4/1				
criteria —						
Test purpose	Ensure that the SUT on receipt of an INVITE message with a SDP offer with more than one media streams 100rel extensions and preconditions extensions in the SIP Supported header: and based on operator policy then:					
					a.a. va.a.t.	
	the IAM shall be defer     if the CDD affer contains					
					streams and one or more nall be considered; the other	
	streams shall be reject		ily trie audio s	lieams si	iali be considered, the other	
			audio type me	adia etroa	ms, the IWU shall only	
	consider one, and reje			cuia silica	ins, the ivvo shall only	
SIP parameter	Offer: m=audio 4711 F					
values	m= audio 4712 I					
	m= video 4713 RTP/AVP 31					
	Answer: m=audio 4711 F		3			
	m=audio 0 RTP/					
	m=video 0 RTP/	/AVP 31				
ISUP parameter						
values	OID I	-	01 IT		lioup	
Comments	SIP-I		SUT		ISUP	
	INVITE(IAM)	<b>→</b>				
	183 Session Progress	+				
	PRACK	+				
	200 OK PRACK	<b>→</b>		<b>→</b>	IAM	
	UPDATE 200 OK UPDATE	<del>-</del>		7	IAW	
	200 OK UPDATE		conditions met			
	190 Pinging (ACM)	→ Pred	conditions met	<del>-</del>	ACM	
	180 Ringing(ACM)	+		<del>-</del>	ANM	
	200 OK INVITE(ANM) ACK	<b>→</b>		7	AINIVI	
	ACK	7	Conversation	<u> </u>	+	
	BYE(REL)	<b>→</b>	CONVENSATION	→	REL	
	200 OK BYE(RLC)	<del>7</del>		<del>7</del>	RLC	
	ZUU ON DIE(NLU)	_		T .	INLU	

TP101051	SIP reference: RFC 3261 [4]				ISUP reference:	
					01 [2], clause 6.1.3.5.2.2	
TSS reference	SIP-ISUP/Basic call/Sending	of the Ir	nitial Addre	ss Message	(IAM)	
SIP selection	PICS 4/4 AND PICS 4/5 AND	PICS 1	I/9 AND NO	OT PICS 4/19	9	
criteria						
ISUP selection	NOT PICS 1/6 AND NOT PIC	S 4/1				
criteria						
Test purpose	Ensure that the SUT on receipt of an INVITE message with a SDP offer with more than one media streams 100rel extensions and preconditions extensions in the SIP Require header and based on operator policy then:  the IAM shall be deferred until all preconditions have been met;  if the SDP offer contains one or more audio type media streams and one or more non-audio type media stream, only the audio streams shall be considered; the other					
	streams shall be rejected		,		,	
	if the SDP offer contains		audio type	media strea	ms, the IWU shall only	
	consider one, and reject				, , , , , , , , , , , , , , , , , , , ,	
SIP parameter	Offer: m=audio 4711 RTF					
values	m= audio 4712 RT	P/AVP	8			
	m= video 4713 RTP/AVP 31					
	Answer: m=audio 4711 RTF m=audio 0 RTP/A\ m=video 0 RTP/A\	√P 8	3			
ISUP parameter values						
Comments	SIP-I		SUT	•	ISUP	
	INVITE(IAM)	<b>→</b>				
	183 Session Progress	<b>←</b>				
	PRACK	<b>→</b>				
	200 OK PRACK	+				
	UPDATE	<b>→</b>		→	IAM	
	200 OK UPDATE	+				
			conditions i			
	180 Ringing(ACM)	+		<b>←</b>	ACM	
	200 OK INVITE(ANM)	+		<b>←</b>	ANM	
	ACK	→				
		<u> </u>	Conversa			
	BYE(REL)	<b>→</b>		<b>→</b>	REL	
	200 OK BYE(RLC)	+		+	RLC	

# 5.2.1.2 Sending of the Subsequent Address Message (SAM)

TP102001	SIP reference: RFC	3261 [4]		ISUP reference:		
				12.5 [1], clause 6.2 a)		
TSS reference	SIP-ISUP/Basic call/ Sendir	ng of the Subsequ	ent Address Me	essage (SAM)/		
SIP selection	PICS 3/4					
criteria						
ISUP selection	PICS 3/8					
criteria						
Test purpose	Ensure that the SUT receives an INVITE with the same Call-ID and From tag as a previous INVITE which was associated with a BICC/ISUP call/bearer control instance currently existing on the BICC/ISUP side whereby the number of digits in the Request-URI is <b>greater</b> than the number of digits already accumulated for the call, sends a SAM and pass it to outgoing BICC/ISUP procedures.  The SAM shall contain in its Subsequent Number parameter only the additional digits received in this Request-URI compared with the digits already accumulated for the call.					
SIP parameter values						
ISUP parameter values	SAM; subsequent number	(PIXIT)				
Comments	SIP-I	S	UT	ISUP		
	INVITE	<b>→</b>	<b>→</b>	IAM		
	INVITE	<b>→</b>	<b>→</b>	SAM		
	INVITE	<b>→</b>	<b>→</b>	SAM		
	180 Ringing	+	+	ACM		
	200 OK INVITE	<del>(</del>	+	ANM		
	ACK	<b>→</b>				
		Conve	rsation			
	BYE(REL)	<b>→</b>	<b>→</b>	REL		
	200 OK BYE(RLC)	+	+	RLC		

TP102002	SIP reference: RFC 3	261 [4]		ISUP reference:				
	Q.1912.5 [1], clause 6.2 b)							
TSS reference	SIP-ISUP/Basic call/ Sending	of the Subsequ	ent Address Me	essage (SAM)/				
SIP selection	PICS 3/4							
criteria								
ISUP selection	PICS 3/8							
criteria								
SIP parameter values	Ensure that the SUT receives an INVITE with the same Call-ID and From tag as a previous INVITE which was associated with a BICC/ISUP call/bearer control instance currently existing on the BICC/ISUP side whereby the number of digits in the Request-URI is <b>fewer</b> than the number of digits already accumulated for the call:  • then the SUT shall immediately send a <b>484 Address Incomplete</b> response for this INVITE;  • in this case no SAM is sent to BICC/ISUP procedures.							
ISUP parameter								
values								
Comments	SIP-I	S	UT	ISUP				
	INVITE(IAM)	<b>→</b>	<b>→</b>	IAM				
	INVITE(IAM)	<b>→</b>						
	484 Address incomplete	+	<b>→</b>	REL				
	ACK	<b>→</b>	+	RLC				

# 5.2.1.3 Sending of COT

TP103001	SIP reference: RFC	3261 [4]	l		-	SUP reference: 112.5 [1], clause 6.3
TSS reference	SIP-ISUP/Basic call/COT					
SIP selection criteria	PICS 4/4 AND PICS 4/5					
ISUP selection criteria	PICS 1/4 AND PICS 4/1					
Test purpose	Ensure that the when the SUT determines that all the preconditions on the incoming SIP side have been met and any continuity procedures on the outgoing BICC side have been successfully completed:  • the SUT shall send the COT message where the Continuity Indicator in the COT message shall be set to "Continuity".					
SIP parameter values						
ISUP parameter	COT continuity indicator: Co	ontinuity				
values	-	_				
Comments	SIP-I		SL	ΙΤ		ISUP
	INVITE(IAM)	<b>→</b>			<b>→</b>	IAM
	183 Session Progress	+				
	PRACK	<b>→</b>				
	200 OK PRACK	+				
	UPDATE	<b>→</b>			<b>→</b>	COT
	200 OK UPDATE	+				
	180 Ringing(ACM)	+			+	ACM
	200 OK INVITE(ANM)	+			+	ANM
	ACK	<b>→</b>				
			Conver	sation		
	BYE(REL)	<b>→</b>			<b>→</b>	REL
	200 OK BYE(RLC)	+			+	RLC

TP103002	SIP reference: RFC 3261 [4]				ISUP reference:		
				Q.19	912.5 [1], clause 6.3		
TSS reference	SIP-ISUP/Basic call/ COT				<b></b> /		
SIP selection	PICS 4/4 AND PICS 4/5						
criteria							
ISUP selection	PICS 1/5 AND PICS 4/1						
criteria							
Test purpose	Ensure that the when the SUT determines that all the preconditions on the incoming SIP side have been met and any continuity procedures on the outgoing ISUP side have been successfully completed:  • the I-IWU shall send the COT message where the Continuity Indicator in the COT message shall be set to "Continuity check successful".						
SIP parameter							
values							
ISUP parameter	COT continuity indicator: Co	ontinuity c	heck suc	cessful;			
values							
Comments	SIP-I		SU		ISUP		
	INVITE(IAM)	→		→	IAM		
	183 Session Progress	+					
	PRACK	→					
	200 OK PRACK	<b>←</b>					
	UPDATE	→		→	COT		
	200 OK UPDATE	<b>←</b>					
		Р	reconditi	ons met			
	180 Ringing(ACM)	+		+	ACM		
	200 OK INVITE(ANM)	+		+	ANM		
	ACK	<b>→</b>					
			Convers	sation			
	BYE(REL)	<b>→</b>		<b>→</b>	REL		
	200 OK BYE(RLC)	+		+	RLC		

# 5.2.1.4 Receipt of the Address Complete Message (ACM)

TP104001	SIP reference: RFC 3261 [4]			ISUP reference: Q.1912.5 [1], clause 6.5 2)					
TSS reference	SIP-ISUP/Basic call/ Receipt of	SIP-ISUP/Basic call/ Receipt of the Address complete message (ACM)/							
SIP selection criteria									
ISUP selection criteria									
Test purpose	Ensure that the SUT on receipt of an ACM message where the Called party status indicator is set to "no indication":  183 Session Progress response is sent from the I-IWU;  the received ACM is encapsulated in the 183 Session Progress.								
SIP parameter values					•				
ISUP parameter values	ACM Called party status: no indi	cation;							
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	→		<b>→</b>	IAM				
	183 Session Progress (ACM)	+		+	ACM(no indication)				
	200 OK INVITE(ANM)	+		+	ANM				
	ACK	→							
		Cor	nversation						
	BYE(REL)	<b>→</b>		<b>→</b>	REL				
	200 OK BYE(RLC)	+		+	RLC				

TP104002	SIP reference: RFC 3261 [4]			-	SUP reference: 2.5 [1], clause 6.5 1)	
TSS reference	SIP-ISUP/Basic call/ Recei	pt of the Ad	ldress comple	te messa	ige (ACM)/	
SIP selection criteria						
ISUP selection criteria						
Test purpose	<ul> <li>Ensure that the SUT on receipt of an ACM message where the Called party status indicator is set to "subscriber free" where the ISUP indicator parameter set to ISUP_ID, the ISDN access indicator set to ISDN_ACCES_ID and the OBCI in-band information set to OBCI_INBAND then:</li> <li>the 180 Ringing SIP response is sent. Ensure that the in-band information can be transmitted to the calling user;</li> <li>the received ACM is encapsulated in the 180 Ringing.</li> </ul>					
SIP parameter values		'				
ISUP parameter values	ACM FCI: ISUP_ID, ISDN OBCI: OBCI_INBAN		_ID,			
Comments	SIP-I		SUT		ISUP	
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM	
	180 Ringing(ACM)	+		+	ACM	
	200 OK INVITE(ANM)	+		+	ANM	
	ACK	<b>→</b>				
			Conversation			
	BYE(REL)	<b>→</b>		<b>→</b>	REL	
	200 OK BYE(RLC)	+		+	RLC	

test purposes	ISUP parameter values:
VA_01	ACM
	ISUP_ID: ISUP not used all the way
	OBCI_INBAND: no
VA_02	ACM
	ISUP_ID: ISUP not used all the way
	OBCI_INBAND: yes
VA_03	ACM
	ISUP_ID: ISUP used all the way
	ISDN_ACCES_ID: non ISDN
	OBCI_INBAND: no
VA_04	ACM
	ISUP_ID: ISUP used all the way
	ISDN_ACCES_ID: non ISDN
	OBCI_INBAND: yes
VA_05	ACM
	ISUP_ID: ISUP used all the way
	ISDN_ACCES_ID: ISDN
	OBCI_INBAND: yes

# 5.2.1.5 Receipt of the Call progress message (CPG)

TP105001	SIP reference: RFC 3261 [4]			ISUP reference: Q.1912.5 [1], clause 6.6					
TSS reference	SIP-ISUP/Basic call/ Receipt of the Call progress message (CPG).								
SIP selection									
criteria									
ISUP selection									
criteria									
Test purpose	Ensure that the SUT, having received the ACM message, on receipt of a CPG message where the <b>event information parameter event indicator</b> is set to "Alerting":  the 180 Ringing SIP response is sent;  The received CPG is encapsulated in the 180 Ringing.								
SIP parameter									
values									
ISUP parameter	ACM: Called party status "no inc	dication	"						
values	CPG; event information param	eter ev	ent indicator:	Alertin	ng				
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM				
	183 Session Progress (ACM)	+		+	ACM(no indication)				
	180 Ringing(CPG)	+		+	CPG(ALERTING)				
	200 OK INVITE(ANM)	+		+	ANM				
ACK →									
	Conversation								
	BYE(REL)	<b>→</b>		<b>→</b>	REL				
	200 OK BYE(RLC)	+		+	RLC				

TP105002	SIP reference: RFC 326	RFC 3261 [4] ISUP reference: Q.1912.5 [1], clause 6.6						
TSS reference	SIP-ISUP/Basic call/ Receipt of the Call progress message (CPG).							
SIP selection criteria		•		•	,			
ISUP selection criteria								
Test purpose	Ensure that the SUT, having received the ACM message, on receipt of a CPG message where the <b>event information parameter event indicator</b> is set to "Progress":  183 Session Progress response is sent from the I-IWU;  the received CPG is encapsulated in the 183 Session Progress.							
SIP parameter values								
ISUP parameter values	ACM: Called party status "no ind CPG; event information param		ent indicator: I	Progre	988			
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM			
	183 Session Progress (ACM)	+		4	ACM(no indication)			
	183 Session (CPG)	+		<b>+</b>	CPG(PROGRESS)			
	200 OK INVITE(ANM)	+		4	ANM			
	ACK →							
	Conversation							
	BYE(REL)	<b>→</b>		<b>↑</b>	REL			
	200 OK BYE(RLC)	+		+	RLC			

TP105003	SIP reference: RFC 326	1 [4]			ISUP reference:			
				Q.1	912.5 [1], clause 6.6			
TSS reference	SIP-ISUP/Basic call/ Receipt of the Call progress message (CPG).							
SIP selection								
criteria								
ISUP selection								
criteria								
Test purpose	Ensure that the SUT, having rec							
	where the event information pa			ator is	set to "in-band information or			
	an appropriate pattern is now							
	<ul> <li>183 Session Progress response</li> </ul>							
	<ul> <li>the received CPG is encaps</li> </ul>	sulated in th	ne 183 -ses	sion P	rogress.			
SIP parameter								
values								
ISUP parameter	ACM: Called party status "no inc							
values	CPG; event information param	eter event	indicator:	in-bar	nd-information or an appropriate			
	pattern is now available							
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM)	→		→	IAM			
	183 Session Progress (ACM)	<b>←</b>		<b>←</b>	ACM(no indication)			
	183 Session (CPG)	+		<b>←</b>	CPG (Inbad Info available)			
	200 OK INVITE(ANM)	<b>←</b>		<b>←</b>	ANM			
	ACK	→						
	Conversation							
	BYE(REL)	<b>→</b>		<b>→</b>	REL			
	200 OK BYE(RLC)	+		+	RLC			

### 5.2.1.6 Receipt of the Answer message (ANM)

TP106001	SIP reference: RFC 3261 [4]		eference: I], clause 6.7							
TSS reference	SIP-ISUP/Basic call/ Receipt of the Answer m	SIP-ISUP/Basic call/ Receipt of the Answer message (ANM).								
SIP selection										
criteria										
ISUP selection										
criteria										
Test purpose	Ensure that the SUT, having received the ACM message, on receipt of an ANM message:  sends a 200 OK INVITE;  the received ANM is encapsulated in the 200 OK INVITE.									
	The bearer path shall be connected in both di are satisfied:		·							
	<ul> <li>the BICC outgoing bearer set-up procedule Q.1902.4 [11])) is successfully completed</li> </ul>		nendation							
	preconditions have been satisfied on the (if applicable).	the I-IWU determines (using the procedures defined in RFC 3312 [5]) that sufficient preconditions have been satisfied on the SIP side for session establishment to proceed								
	In addition, if BICC is performing the "Per-call Outgoing bearer set-up procedure and the Cobearer path shall be connected in both directions."	nnect Type is " <b>notifica</b>	tion not required", the							
	and the I-IWU determines (through the procedure preconditions have been met for the session	lures defined in RFC 33								
SIP parameter values	200 OK INVITE with encapsulated ANM	, p. 00000								
ISUP parameter values	ANM									
Comments	SIP-I S	JT ISUP								
	INVITE(IAM) →	→ IAM								
	180 Ringing(ACM) ←	<b>←</b> ACM								
	200 OK INVITE(ANM) ←	<b>←</b> ANM								
	ACK →									
	Conve									
	BYE(REL) →	→ REL								
	200 OK BYE(RLC) ←	<b>←</b> RLC								

#### 5.2.1.7 Receipt of the Connect message (CON)

TP107001	SIP reference: RFC 3261 [4]		ISUP reference:						
				Q.1912.5 [1], clause 6.4, 6.7					
TSS reference	SIP-ISUP/Basic call/ Receipt of the CONNECT message (CON).								
SIP selection									
criteria									
ISUP selection									
criteria		<del> </del>							
Test purpose	SDP offer was received in the	initial INVITE	E. Ensure that	the SUT, on receipt of an CON					
	message:								
	sends a 200 OK INVITE;		000 014 15 17						
	• the received CON is encap								
	are satisfied:	ctea in both (	irections whei	n both of the following conditions					
	the BICC outgoing bearers     Q.1902.4 [11]) is successful			T Recommendation					
	<ul> <li>the I-IWU determines (using the procedures defined in RFC 3312 [5]) that sufficient preconditions have been satisfied on the SIP side for session establishment to proceed (if applicable).</li> <li>In addition, if BICC is performing the "Per-call bearer set-up in the forward direction"</li> <li>Outgoing bearer set-up procedure and the Connect Type is "notification not required", the</li> </ul>								
	bearer path shall be connected and the I-IWU determines (thro	in both direcugh the proce	tions when the edures defined						
oin .	preconditions have been met for	r the session	to proceed.						
SIP parameter values									
ISUP parameter									
values									
Comments	SIP-I	<u> </u>	SUT	ISUP					
	INVITE(IAM)	<b>→</b>	-						
	200 OK INVITE(CON)	<del>-</del>	•						
	ACK	<b>→</b>							
		Conv	ersation						
	BYE(REL)	<b>→</b>	-						
	200 OK BYE(RLC)	+	•	RLC					

#### 5.2.1.8 Receipt of the REL message

TP108001	SIP reference: RFC 3	261 [4]	]	I	SUP reference:				
				Q.191	2.5 [1], clause 6.11.2				
TSS reference	SIP-ISUP /Basic call/ Receipt of the Release message (REL)/								
SIP selection									
criteria									
ISUP selection criteria									
Test purpose  SIP parameter values	Ensure that the SUT in the Idle state on receipt of a INVITE message, sending out an IAM message, on receipt of an ISUP REL:  • the SUT immediately requests the disconnection of the internal bearer path. When the ISUP circuit is available for re-selection, an ISUP RLC is returned to the ISUP side;  • the SUT shall send the appropriate SIP status defined as SIP_FAILURE_VA with the encapsulated REL message.  SIP Statue-Code: SIP_FAILURE_VA (PIXIT)								
ISUP parameter values	REL; cause value: CV_ISUP (PIXIT)								
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM				
	SIP_FAILURE_VA(REL)	+		+	REL				
	ACK	<b>→</b>		<b>→</b>	RLC				

Table 1

		test purpose TP108001
	←SIP Message SIP_FAILURE_VA	← REL Cause Indicators parameter CV_ISUP
VA_1	404 Not Found	Cause Value No. 1 ("unallocated (unassigned) number")
VA_2	500 Server Internal Error	Cause Value No. 2 ("no route to network")
VA_3	500 Server Internal Error	Cause Value No. 3 ("no route to destination")
VA_4	500 Server Internal Error	Cause Value No. 4 ("Send special information tone")
VA_5	404 Not Found	Cause Value No. 5 ("Misdialled trunk prefix")
VA_6	500 Server Internal Error	Cause Value No. 8 ("Pre-emption")
VA_7	500 Server Internal Error	Cause Value No. 9 ("Pre-emption-circuit reserved for reuse")
VA_8	486 Busy Here	Cause Value No. 17 ("user busy")
VA_9	480 Temporarily unavailable	Cause Value No. 18 ("no user responding")
VA_10	480 Temporarily unavailable	Cause Value No. 19 ("no answer from the user")
VA_11	480 Temporarily unavailable	Cause Value No. 20 ("subscriber absent")
VA_12	480 Temporarily unavailable	Cause Value No. 21 ("all rejected")
VA_13	410 Gone	Cause Value No. 22 ("number changed")
VA_14	480 Temporarily unavailable	Cause Value No. 25 ("Exchange routing error")
VA_15	502 Bad Gateway	Cause Value No. 27 ("destination out of order")
VA_16	484 Address Incomplete	Cause Value No. 28 ("invalid number format (address
		incomplete")
VA_17	500 Server Internal Error	Cause Value No. 29 ("facility rejected")
VA_18	480 Temporarily unavailable	Cause Value No. 31 ("normal unspecified")
_	,	(Class default)
VA_19	486 Busy here if Diagnostics indicator includes the (CCBS indicator = CCBS possible)	Cause Value in the Class 010 (No circuit/channel available, Cause Value No. 34)
1/4 00	else 480 Temporarily unavailable	O Value in the Olera 040 (recovers or continue)
VA_20	500 Server Internal Error	Cause Value in the Class 010 (resource unavailable, Cause Value No. 38 to 47) (47 is class default)
VA_21	500 Server Internal Error	Cause Value No. 50 ("requested facility not subscribed")
VA_21 VA_22	500 Server Internal Error (SIP-I only)	Cause Value No. 55 ("incoming calls barred within CUG")
VA_23	500 Server Internal Error	Cause Value No. 57 ("bearer capability not authorized")
VA_24	500 Server Internal Error	Cause Value No. 58 ("bearer capability not presently")
VA_25	500 Server Internal Error	Cause Value No. 63 ("service option not available, unspecified") (Class default)
VA_26	500 Server Internal Error	Cause Value in the Class 100 (service or option not implemented Cause Value No. 65 to 79) (79 is class default)
VA_27	500 Server Internal Error	Cause Value No. 87 ("user not member of CUG")
VA_28	500 Server Internal Error	Cause Value No. 88 ("incompatible destination")
VA_29	500 Server Internal Error	Cause Value No. 90 ("Non-existent CUG")
VA_30	404 Not Found	Cause Value No. 91 ("invalid transit network selection")
VA_31	500 Server Internal Error	Cause Value No. 95 ("invalid message") (Class default)
VA_32	500 Server Internal Error	Cause Value No. 97 ("Message type non-existent or not implemented")
VA_33	500 Server Internal Error	Cause Value No. 99 ("information element/parameter non-existent or not implemented")
VA_34	480 Temporarily unavailable	Cause Value No. 102 ("recovery on timer expiry")
VA_35	500 Server Internal Error	Cause Value No. 103 ("Parameter non-existent or not implemented, pass on")
VA_36	500 Server Internal Error	Cause Value No. 110 ("Message with unrecognized Parameter, discarded")
VA_37	500 Server Internal Error	Cause Value No. 111 ("protocol error, unspecified") (Class default)
VA_38	480 Temporarily unavailable	Cause Value No. 127 ("interworking unspecified") (Class default)

TP108002	SIP reference: RFC 32	ISUP reference: Q.1912.5 [1], clause 6.11.2								
TSS reference	SIP-ISUP /Basic call/ Receipt of the Release message (REL)/									
SIP selection criteria										
ISUP selection criteria										
Test purpose	Ensure that the SUT in the Idle state on receipt of a INVITE message, sending out an IAM message, having received a ACM message where the CPS indicator is set to "no indication", on receipt of an ISUP REL:  • the SUT immediately requests the disconnection of the internal bearer path. When the ISUP circuit is available for re-selection, an ISUP RLC is returned to the ISUP side;  • the SUT shall send the appropriate SIP status defined as SIP_FAILURE_VA with the encapsulated REL message.									
SIP parameter values	SIP Statue-Code: SIP_FAILURE	_VA (P	IXII)							
ISUP parameter values	REL; cause value: CV_ISUP (I	PIXIT)								
Comments	SIP-I		SUT			ISUP				
	INVITE(IAM)	<b>→</b>			<b>→</b>	IAM				
	183 Session Progress(ACM)	+			<b>←</b>	ACM(no indication)				
	SIP_FAILURE_VA(REL)	+			<del>-</del>	REL				
	ACK	<b>→</b>			<b>→</b>	RLC				

Table 2

	Values for test purpose TP108002						
	←SIP Message SIP_FAILURE_VA	← REL  Cause Indicators parameter  CV_ISUP					
VA_1	486 Busy Here Cause Value No. 17	Cause Value No. 17 ("user busy")					
VA_2	480 Temporarily unavailable	Cause Value No. 18 ("No user responding")					
VA_3	480 Temporarily unavailable	Cause Value No. 21 ("all rejected")					
VA_4	410 Gone	Cause Value No. 22 ("number changed")					
VA_5	502 Bad Gateway	Cause Value No. 27 ("destination out of order")					
VA_6	484 Address Incomplete	Cause Value No. 28 ("invalid number format (address incomplete")					
VA_7	480 Temporarily unavailable	Cause Value No. 31 ("normal unspecified") (Class default)					
VA_8	500 Server Internal Error	Cause Value in the Class 010 (resource unavailable, Cause Value No. 38 to 47) (47 is class default)					
VA_9	500 Server Internal Error	Cause Value No. 63 ("service option not available, unspecified") (Class default)					
VA_10	500 Server Internal Error	Cause Value No. 88 ("incompatible destination")					
VA_11	500 Server Internal Error	Cause Value No. 111 ("protocol error, unspecified") (Class default)					

TP108003	SIP reference: RFC 3	261 [4]	]	ISUP reference: Q.1912. [1],5 clause 6.11.2					
TSS reference	SIP-ISUP /Basic call/ Receipt of the Release message (REL)/								
SIP selection criteria									
ISUP selection criteria									
Test purpose	Ensure that the SUT in the Idle state on receipt of a INVITE message, sending out an IAM message, having received a ACM message where the CPS indicator is set to "subscriber free", having sent a 180 Ringing message on receipt of an ISUP REL:  • the SUT immediately requests the disconnection of the internal bearer path. When the ISUP circuit is available for re-selection, an ISUP RLC is returned to the ISUP side;  • the SUT shall send the appropriate SIP status defined as SIP_FAILURE_VA with the encapsulated REL message.								
SIP parameter values	SIP Statue-Code: SIP_FAILUR	E_VA (l	PIXIT)						
ISUP parameter values	REL; cause value: CV_ISUP	(PIXIT	)						
Comments	SIP-I		SU	Γ		ISUP			
	INVITE(IAM)	<b>→</b>			<b>→</b>	IAM			
	180 Ringing(ACM)	+			+	ACM			
	SIP_FAILURE_VA(REL)	+			+	REL			
	ACK	<b>→</b>			<b>→</b>	RLC			

TP108004	SIP reference: RFC 3261 [4]				ı	SUP reference:			
				(	Q.191	2.5 [1], clause 6.11.2			
TSS reference	SIP-ISUP /Basic call/ Receipt of the Release message (REL)/								
SIP selection									
criteria									
ISUP selection									
criteria									
Test purpose	Ensure that the SUT in the Idle state on receipt of a INVITE message, sending out an IAM message, having received a ACM message where the CPS indicator is set to "no indication", having received a CPG message where the event information parameter event indicator is set to "Alerting", a 180 Ringing message is sent, on receipt of an ISUP REL:  • the SUT immediately requests the disconnection of the internal bearer path. When the ISUP circuit is available for re-selection, an ISUP RLC is returned to the ISUP side;  • the SUT shall send the appropriate SIP status defined as SIP_FAILURE_VA with the encapsulated REL message.								
SIP parameter values	SIP Statue-Code: SIP_FAILURE_VA (PIXIT)								
ISUP parameter	REL; cause value: CV_ISUP (I	PIXIT)							
values									
Comments	SIP-I		SI	JT		ISUP			
	INVITE(IAM)	<b>→</b>			<b>→</b>	IAM			
	183 Session Progress(ACM)	<b>←</b>			+	ACM(no indication)			
	180 Ringing(CPG)	+			+	CPG(ALERTING)			
	SIP_FAILURE_VA(REL)	<b>←</b>			+	REL			
	ACK	<b>→</b>			<b>→</b>	RLC			

Table 3

	Values for test purposes TP108003 and TP108004					
	←SIP Message	← REL				
SIP_FAILURE_VA		Cause Indicators parameter				
		CV_ISUP,				
VA_1	480 Temporarily unavailable	Cause Value No. 21 ("all rejected")				
VA_2	480 Temporarily unavailable	Cause Value No. 31 ("normal unspecified")				
		(Class default)				
VA_4	500 Server Internal Error	Cause Value No. 38 ("Network out of order")				
VA_4	500 Server Internal Error	Cause Value No. 41 ("Temporary failure ")				
VA_5	500 Server Internal Error	Cause Value No. 111 ("protocol error, unspecified")				
		(Class default)				

TP108005	SIP reference: RFC 3	3261 [4]		I;	SUP reference:	
	Q.1912.5 [1], clause 6.11.2					
TSS reference	SIP-ISUP /Basic call/ Receipt	of the Releas	e message	(REL)	/	
SIP selection						
criteria						
ISUP selection criteria						
Test purpose  SIP parameter	Ensure that the SUT in the Idle state on receipt of a INVITE message, sending out an IAM message, having received a ACM message, having received a ANM", a 200 OK message is sent, on receipt of an ISUP REL, where the cause value defined as <b>CV_ISUP</b> :  • the SUT immediately requests the disconnection of the internal bearer path. When the ISUP circuit is available for re-selection, an ISUP RLC is returned to the ISUP side;  • the SUT shall send a BYE message with the encapsulated REL message.					
values						
ISUP parameter						
values						
Comments	SIP-I		SUT		ISUP	
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM	
	180 Ringing(ACM)	+		+	ACM	
	200 OK INVITE(ANM) ← ANM ACK →					
		Conv	ersation	•		
	BYE(REL)	+		+	REL	
	200 OK BYE(RLC)	<b>→</b>		<b>→</b>	RLC	

TP108006	SIP reference: RFC 3	3261 [4]			I.	SUP reference:	
				(	<b>Q.191</b> :	2.5 [1], clause 6.11.2	
TSS reference	SIP-ISUP /Basic call/ Receipt	t of the F	Release n	nessage	(REL)	/	
SIP selection criteria							
ISUP selection criteria							
Test purpose	Ensure that the SUT in the Idle state on receipt of a INVITE message, sending out an IAM message, having received a CON message, a 200 OK message is sent, on receipt of an ISUP REL, where the cause value defined as <b>CV_ISUP</b> :  • the SUT immediately requests the disconnection of the internal bearer path. When the ISUP circuit is available for re-selection, an ISUP RLC is returned to the ISUP side;  • the SUT shall send a BYE message with the encapsulated REL message.						
SIP parameter values							
ISUP parameter values	REL; cause value: CV_ISUP	(PIXIT)					
Comments	SIP-I		SU	Т		ISUP	
	INVITE(IAM)	<b>→</b>			1	IAM	
	200 OK INVITE(CON)	+			+	CON	
	ACK →						
			Convers	sation			
	BYE(REL)	+			+	REL	
	200 OK BYE(RLC)	<b>→</b>			<b>→</b>	RLC	

Table 4

	Values for test purpose TP108005 and TP 108006					
←SIP Message SIP_FAILURE_VA		← REL Cause Indicators parameter CV_ISUP				
VA_1	BYE	Cause Value No. 16				
VA_2	BYE	Cause Value No. 31 ("normal unspecified") (Class default)				
VA_3	BYE	Cause Value No. 38 ("Network out of order")				
VA_4	BYE	Cause Value No. 41 ("Temporary failure ")				
VA_5	BYE	Cause Value No. 111 ("protocol error, unspecified") (Class default)				

TP108007	SIP reference: RF	C 3261 [4]		ISUP reference:			
TSS reference	Q.1912.5 [1], clause 6.11.2  SIP-ISUP /Basic call/ Receipt of the Release message (REL)/						
SIP selection	PICS 4/21						
criteria							
ISUP selection							
criteria							
Test purpose	Ensure that the SUT in the Idle state on receipt of a INVITE message, sending out an IAM message, on receipt of an ISUP REL with cause value 23 the SUT shall:  • the SUT immediately requests the redirection to the new destination according the ISUP/BICC procedures.						
SIP parameter values							
ISUP parameter values	REL; cause value: 23						
Comments	SIP-I	SI	JT	ISUP			
	INVITE(IAM)	<b>→</b>	→	IAM(Destination 1)			
			<b>←</b>	REL(new Destination)			
			→	RLC			
			→	IAM(Destination 2)			
	180 Ringing(ACM)	<b>←</b>	+	ACM			
	200 OK INVITE(ANM)	<b>←</b>	+	ANM			
	ACK	<b>→</b>					
		Conve	rsation				
	BYE(REL)	+	+	REL			
	200 OK BYE(RLC)	<b>→</b>	<b>→</b>	RLC			

#### 5.2.1.9 Autonomous release at I-IWU

TP109001	SIP reference: RFC 3261 [4]				ISUP reference: I2.5 [1], clause 6.11.3		
TSS reference	SIP-ISUP/Basic call/ Autonomous release at I-IWU						
SIP selection criteria							
ISUP selection criteria	PICS 4/6						
Test purpose	Ensure that when a an automatic repeat attempt initiated by the SUT is not successful (because the call is not routable), the SUT shall:  • send a 480 Temporarily Unavailable response to the SIP side. No actions on the ISUP (BICC) side are required.						
SIP parameter values							
ISUP parameter values							
Comments	SIP-I		SUT		ISUP		
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM		
	480 Temporarily unavailable (REL)	+		+	RSC		
	ACK	<b>→</b>		→	RLC		

TP109002	SIP reference: RFC 3261 [4		ISUP reference:			
				Q.191	2.5 [1], clause 6.11.3	
TSS reference	SIP-ISUP/Basic call/ Autonomous re	elease	at I-IWU			
SIP selection						
criteria						
ISUP selection						
criteria						
Test purpose	Ensure that when the SUT receives unrecognized backward ISUP or BICC signalling information and determines that the call needs to be released based on the coding, the SUT:					
OID	<ul> <li>shall send a 500 Server Interna</li> </ul>	I EILOL	response or	the Si	P side.	
SIP parameter values						
ISUP parameter	Unknown message: Message comp	atibility	"Release ca	all"		
values						
Comments	SIP-I		SUT		ISUP	
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM	
180 Ringing(ACM) ← ← ACM					ACM	
				+	???	
	500 Server internal error(REL)	+		<b>→</b>	REL	
	ACK	<b>+</b>		+	RLC	

TP109003	SIP reference: RFC 3261	[4]		ISUP reference: Q.1912.5 [1], clause 6.11.3			
TSS reference	SIP-ISUP/Basic call/ Autonomous release at I-IWU						
SIP selection criteria							
ISUP selection criteria	PICS 3/4						
Test purpose	Ensure that the SUT on receipt of insufficient digits received in an INVITE messages:  sends an 484 Address Incomplete message.						
SIP parameter values							
ISUP parameter values							
Comments	SIP-I		SUT	ISUP			
	484 Address incomplete	→ ← →					

TP109004	SIP reference: RFC 32	61 [4]		ISUP reference:			
			Q.191	12.5 [1], clause 6.11.3			
TSS reference	SIP-ISUP/Basic call/ Autonomous release at I-IWU						
SIP selection	PICS 3/4						
criteria							
ISUP selection							
criteria							
Test purpose	Ensure that the SUT on receipt	of subsequent	INVITE messa	ge:			
	is sending a 484 Address Incomplete message to consider any offer-answer exchange initiated by the INVITE. A new INVITE shall initiate a new offer-answer exchange. As a general principle, the overlap procedures allow for session negotiation (and in particular the negotiation and confirmation of preconditions) to continue independently of the receipt of address information. On sending of a 484 Address Incomplete message for an INVITE transaction the I-IWU considers any offer-answer exchange initiated by the INVITE to be terminated. The new INVITE initiates a new offer-answer exchange. However, if resources have already been reserved and they can be reused within the new offer-answer exchange, the precondition signalling shall reflect the current status of the affected preconditions.						
SIP parameter values							
ISUP parameter							
values							
Comments	SIP-I	SI	IT .	ISUP			
Comments	INVITE(IAM)	→ S(	)	ISUF			
	INVITE(IAM)	→ ·					
	484 Address incomplete	+					
	ACK	<b>→</b>					
	AUN	7					

TP109005	SIP reference: RFC 326	61 [4]		ISUP reference: Q.1912.5 [1], clause 6.11.3				
TSS reference	SIP-ISUP/Basic call/ Autonomou	SIP-ISUP/Basic call/ Autonomous release at I-IWU						
SIP selection criteria								
ISUP selection criteria								
Test purpose	<ul><li>Ensure that the SUT in congesti</li><li>sends an 480 Temporarily U</li></ul>		•	E message:				
SIP parameter values								
ISUP parameter values								
Comments	SIP-I		SUT	ISUP				
	INVITE(IAM) 480 Temporarily unavailable	<b>→</b>						
	ACK	<b>→</b>						

TP109006	SIP reference: RFC 3261 [4	]			ISUP reference:  2.5 [1], clause 6.11.3		
TSS reference	SIP-ISUP/Basic call/ Autonomous re	lease at l	-IWU				
SIP selection criteria							
ISUP selection criteria							
Test purpose	Ensure that the call is released due to the BICC/ISUP compatibility procedure for unknown parameters:  • sends 500 Server Internal Error.						
SIP parameter values							
ISUP parameter values	Unknown parameter in ACM: Param	Unknown parameter in ACM: Parameter compatibility "Release call"					
Comments	SIP-I		SUT		ISUP		
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM		
				+	ACM(???)		
	500 Server internal error(REL)	+		<b>→</b>	REL		
	ACK	<b>→</b>		+	RLC		

TP109007	SIP reference: RFC 3261 [4]			ISUP reference: Q.1912.5 [1], clause 6.11.3			
TSS reference	SIP-ISUP/Basic call/ Autonomo	ous relea	ase at I-IV		12.0 [1], 0.0000 0.11.0		
SIP selection							
criteria							
ISUP selection							
criteria							
Test purpose	Ensure that the call is released	due to	expiry of 7	7 within the	BICC/ISUP procedures:		
	<ul> <li>sends 484 Address Incom</li> </ul>	plete.			·		
SIP parameter							
values							
ISUP parameter							
values							
Comments	SIP-I		SUT	-	ISUP		
	INVITE(IAM)	<b>→</b>		→	IAM		
	T7 expiry			iry			
	484 Address incomplete	+		→	REL		
	ACK	<b>→</b>		+	RLC		

TP109008	SIP reference: RFC 32	61 [4]			ISUP reference:				
				Q.19 <sup>2</sup>	12.5 [1], clause 6.11.3				
TSS reference	SIP-ISUP/Basic call/ Autonomous release at I-IWU								
SIP selection									
criteria									
ISUP selection									
criteria									
Test purpose	Ensure that the call is released	due exp	oiry of T9 within	the Bl	CC/ISUP procedures:				
	<ul> <li>sends 480 Temporarily Un</li> </ul>	availabl	e.						
SIP parameter									
values									
ISUP parameter									
values									
Comments	SIP-I		SUT		ISUP				
Comments	SIP-I INVITE(IAM)	<b>→</b>	SUT	<b>→</b>	ISUP IAM				
Comments		<b>→</b>	SUT	<b>→</b>					
Comments	INVITE(IAM)		SUT T9 expiry		IAM				
Comments	INVITE(IAM)				IAM				

# 5.2.1.10 Receipt of the Release message BYE / CANCEL

TP110001	SIP reference: RFC 3261 [4]			Q.19	ISUP reference: 12.5 [1], clause 6.11.1				
TSS reference	SIP-ISUP/Basic call/ Receipt of the BYE-CANCEL message								
SIP selection criteria									
ISUP selection criteria									
Test purpose		Ensure that the SUT on receipt of SIP BYE, the SUT shall send an ISUP REL with the cause value # 16 to the ISUP side.							
SIP parameter values									
ISUP parameter values	REL: Cause value #16, Loo	cation "Network	beyond an	interwo	orking point"				
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM				
	180 Ringing(ACM)	+		+	ACM				
	200 OK INVITE(ANM)	+		+	ANM				
	ACK →								
		Cor	versation	-					
	BYE(REL)	<b>→</b>		<b>→</b>	REL				
	200 OK BYE(RLC)	+		+	RLC				

TP110002	SIP reference: RFC	3261 [4]		ISUP reference: Q.1912.5 [1], clause 6.11.1					
TSS reference	SIP-ISUP/Basic call/ Receip	SIP-ISUP/Basic call/ Receipt of the BYE-CANCEL message							
SIP selection									
criteria									
ISUP selection									
criteria									
Test purpose	Ensure that the SUT on rece cause value # 31 to the ISU		NCEL, the	I-IWU sł	nall send an ISUP REL with the				
SIP parameter	CANCEL without encapsula	ted ISUP mes	sage						
values			· ·						
ISUP parameter	REL: Cause value #31, Loca	ation "Network	beyond a	n interwo	orking point"				
values			•						
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM				
	180 Ringing(ACM)	+		+	ACM				
	CANCEL	<b>→</b>		<b>→</b>	REL				
	200 OK CANCEL	+		+	RLC				
	487 Request Terminated	+							
	ACK	<b>→</b>							

TP110003	SIP reference: RFC	3261 [4]		ISUP reference: Q.1912.5 [1], clause 6.11.1						
TSS reference	SIP-ISUP/Basic call/ Receipt	SIP-ISUP/Basic call/ Receipt of the BYA-CANCEL message								
SIP selection criteria										
ISUP selection criteria										
Test purpose	Ensure that the SUT on rece cause value # 31 to the ISUF	•	BYE, the I-IWI	J shall s	end an ISUP REL with the					
SIP parameter values	BYE without encapsulated IS	SUP messa	ige							
ISUP parameter values	REL: Cause value #31, Loca	tion "Netw	ork beyond ar	n interwo	orking point"					
Comments	SIP-I		SUT		ISUP					
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM					
	180 Ringing(ACM)	+		+	ACM					
	BYE	<b>→</b>		<b>→</b>	REL					
	200 OK BYE	+		+	RLC					
	487 Request Terminated	+								
	ACK	<b>→</b>								

# 5.2.1.11 Receipt of Reset circuit message (RSC), Circuit group reset message (GRS) or Circuit group blocking message (CGB) with the indication hardware failure oriented

TP111001	SIP reference: RFC	3261 [4]	G	-	SUP reference: [1], clauses6.11.4 and 5			
TSS reference	SIP-ISUP/Basic call/ Receipt of Reset circuit message (RSC), Circuit group reset message (GRS) or Circuit group blocking message (CGB) with the indication hardware failure oriented							
SIP selection criteria								
ISUP selection criteria								
Test purpose	already been received on re	a B12 moddago ii tilo CC1 mad airdady roddivod air Nort for tilo 200 CR ii tvi 12 moddago						
SIP parameter values								
ISUP parameter values								
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM			
	180 Ringing(ACM)	<b>←</b>		<b>←</b>	ACM			
	200 OK INVITE(ANM)	+		+	ANM			
	ACK	<b>→</b>						
		(	Conversation					
	BYE(REL)	<del>(</del>		+	RSC			
	200 OK BYE(RLC)	<b>→</b>		<b>→</b>	RLC			

TP111002	SIP reference: RFC 3261 [4] ISUP reference:								
			Q	.1912.5	[1], clauses 6.11.4 and 5				
TSS reference	SIP-ISUP/Basic call/ Receipt of Reset circuit message (RSC), Circuit group reset message								
	(GRS) or Circuit group block	king message (	CGB) with the	he indica	ation hardware failure oriented				
SIP selection									
criteria									
ISUP selection									
criteria									
Test purpose					message relating to the call has				
	already been received on re								
	<ul> <li>a BYE message if the S which had it sent.</li> </ul>	SUT has alread	/ received a	in ACK f	or the 200 OK INVITE message				
SIP parameter									
values									
ISUP parameter									
values									
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	→		<b>→</b>	IAM				
	180 Ringing(ACM)	+		+	ACM				
	200 OK INVITE(ANM)	+		+	ANM				
	ACK	<b>→</b>							
		Co	nversation						
	BYE	+		+	GRS				
	200 OK BYE	<b>→</b>		<b>→</b>	GRA				

TP111003	SIP reference: RFC 320	61 [4]				SUP reference:				
TSS reference	Q.1912.5 [1], clause 6.11.4 SIP-ISUP/Basic call/ Receipt of Reset circuit message (RSC), Circuit group reset message									
133 reference										
SIP selection	(GRS) or Circuit group blocking message (CGB) with the indication hardware failure oriented									
criteria										
ISUP selection criteria										
Test purpose	already been received on receip Message Type Indicator coded	a Bit I moddago ii and ddi maday foddired an Mortion and 200 dit ii trif E moddago								
SIP parameter values										
ISUP parameter values	Circuit Group Supervision Mess	age Ty	pe Indica	or "hard	ware fa	ailure oriented"				
Comments	SIP-I		SL	T		ISUP				
	INVITE(IAM)	<b>→</b>			<b>→</b>	IAM				
	180 Ringing(ACM)	+			+	ACM				
	200 OK INVITE(ANM)	+			+	ANM				
	ACK	<b>→</b>								
			Conver	sation						
	BYE	+			+	CGB(hardware failure)				
	200 OK BYE	<b>→</b>			<b>→</b>	CGBA				

TP111004	SIP reference: RFC 3	3261 [4]		I	SUP reference:			
			Q.19	912.5	[1], clauses 6.11.4 and 5			
TSS reference	SIP-ISUP/Basic call/ Receipt of Reset circuit message (RSC), Circuit group reset message							
	(GRS) or Circuit group blocking	ng message (0	GB) with the	indica	ation hardware failure oriented			
SIP selection								
criteria								
ISUP selection criteria								
Test purpose					message relating to the call has			
	already been received on rec							
	200 OK INVITE if the SUT ha							
	<ul> <li>the SUT shall wait until it BYE.</li> </ul>	receives the	ACK for the 20	00 OK	INVITE before sending the			
SIP parameter								
values								
ISUP parameter								
values								
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM)	→		<b>→</b>	IAM			
	180 Ringing(ACM)	+		+	ACM			
	200 OK INVITE(ANM)	+		+	ANM			
				+	RSC			
	ACK	<b>→</b>		<b>→</b>	RLC			
	BYE(REL)	+	·					
	200 OK BYE(RLC)	<b>→</b>						

TP111005	SIP reference: RFC 3	261 [4]		Q.19	-	SUP reference: [1], clauses 6.11.4 and 5		
TSS reference:	SIP-ISUP/Basic call/ Receipt of Reset circuit message (RSC), Circuit group reset message (GRS) or Circuit group blocking message (CGB) with the indication hardware failure oriented							
SIP selection criteria:								
ISUP selection criteria:								
Test purpose:	already been received on received on received OK INVITE if the SUT has	and do t driam was driam is received and recreating and						
SIP parameter values:								
ISUP parameter values:								
Comments:	SIP-I		S	UT		ISUP		
	INVITE(IAM)	<b>→</b>			<b>→</b>	IAM		
	180 Ringing(ACM)	<b>←</b>			+	ACM		
	200 OK INVITE(ANM)	+			+	ANM		
					+	GRS		
	ACK	<b>→</b>			<b>→</b>	GRA		
	BYE	+						
	200 OK BYE	<b>←</b>	•					

TP111006	SIP reference: RFC 326	61 [4]		SUP reference:					
			Q.191	2.5 [1], clause 6.11.4					
TSS reference	SIP-ISUP/Basic call/ Receipt of Reset circuit message (RSC), Circuit group reset message								
	(GRS) or Circuit group blocking	(GRS) or Circuit group blocking message (CGB) with the indication hardware failure oriented							
SIP selection									
criteria									
ISUP selection									
criteria									
Test purpose	Ensure that the SUT, when at le								
	already been received on receip								
	Message Type Indicator coded a								
	200 OK INVITE if the SUT has r								
		ceives the AC	K for the 200 OK	INVITE before sending the					
	BYE.								
SIP parameter									
values									
ISUP parameter	Circuit Group Supervision Mess	age Type Indi	cator "hardware f	failure oriented"					
values			1						
Comments	SIP-I		SUT	ISUP					
	INVITE(IAM)	<b>→</b>	<b>→</b>	IAM					
	180 Ringing(ACM)	+	+	ACM					
	200 OK INVITE(ANM)	+	+	ANM					
			+	CGB(hardware failure)					
	ACK	<b>→</b>	<b>→</b>	CGBA					
	BYE	+							
	200 OK BYE	<b>→</b>		·					

TP111007	SIP reference: RFC 3261	[4]	Q.	ISUP reference: Q.1912.5 [1], clauses 6.11.4 and 5					
TSS reference	SIP-ISUP/Basic call/ Receipt of Reset circuit message (RSC), Circuit group reset message (GRS) or Circuit group blocking message (CGB) with the indication hardware failure oriented								
SIP selection criteria									
ISUP selection criteria									
Test purpose	Ensure that the SUT, when at leas already been received on receipt contact a 500 Server Internal Error on	of a RSC	message se		message relating to the call has				
SIP parameter values									
ISUP parameter values									
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM				
	180 Ringing(ACM)	+		+	ACM				
	500 Server Internal Error(REL)	+	•	+	RSC				
	ACK → RLC								

TP111008	SIP reference: RFC 3261 [4] ISUP reference:							
	Q.1912.5 [1], clauses 6.11.4 and 5							
TSS reference	SIP-ISUP/Basic call/ Receipt of Reset circuit message (RSC), Circuit group reset message							
	(GRS) or Circuit group blocking	messag	ge (CGB	) with the	indica	tion hardware failure oriented		
SIP selection								
criteria								
ISUP selection								
criteria								
Test purpose	Ensure that the SUT, when at le	Ensure that the SUT, when at least one backward ISUP/BICC message relating to the call has						
	already been received on receip	ot of a G	RS mes	sage sen	ds:			
	a 500 Server Internal Error	on the	SIP side					
SIP parameter								
values								
ISUP parameter								
values								
Comments	SIP-I		SI	JT		ISUP		
	INVITE(IAM)	<b>→</b>			<b>→</b>	IAM		
	180 Ringing(ACM)	+			+	ACM		
	500 Server Internal Error	+			+	GRS		
	ACK	<b>→</b>			<b>→</b>	GRA		

TP111009	SIP reference: RFC 326	1 [4]			SUP reference: 2.5 [1], clause 6.11.4
TSS reference	SIP-ISUP/Basic call/ Receipt of Reset circuit message (RSC), Circuit group reset message (GRS) or Circuit group blocking message (CGB) with the indication hardware failure oriented				
SIP selection criteria					
ISUP selection criteria					
Test purpose	Ensure that the SUT, when at least one backward ISUP message relating to the call has already been received on receipt of a CGB message, with the Circuit Group Supervision Message Type Indicator coded as "hardware failure oriented", sends:  • a 500 Server Internal Error on the SIP side.				
SIP parameter values					
ISUP parameter values					
Comments	SIP-I		SUT		ISUP
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM
	180 Ringing(ACM)	<b>←</b>		<b>←</b>	ACM
	500 Server Internal Error	<del>(</del>		+	CGB(hardware failure)
	ACK	<b>→</b>		<b>→</b>	CGBA

TP111010	SIP reference: RFC	3261 [4]	_	SUP reference: [1], clauses 6.11.4 and 5	
TSS reference	SIP-ISUP/Basic call/ Receipt of Reset circuit message (RSC), Circuit group reset message (GRS) or Circuit group blocking message (CGB) with the indication hardware failure oriented				
SIP selection criteria					
ISUP selection criteria					
Test purpose	Ensure that the SUT after receiving more than one INVITE sending an IAM message for each call association on receipt of a GRS message were the Range and Status Parameter value is bigger than "1":  the SUT shall send a BYE requests for each call association.				
SIP parameter values		·			
ISUP parameter values					
Comments	SIP-I INVITE(IAM) 1 180 Ringing(ACM) 200 OK INVITE(ANM) ACK INVITE(IAM) 2 180 Ringing(ACM) 200 OK INVITE(ANM) ACK  BYE 1 200 OK BYE BYE 2		SUT	ISUP IAM ACM ANM  IAM ACM ANM  GRS GRA	
	200 OK BYE	<b>→</b>			

TP111011	SIP reference: RFC		Q.1912.5	ISUP reference: [1], clauses 6.11.4 and 5	
TSS reference	SIP-ISUP/Basic call/ Receipt of Reset circuit message (RSC), Circuit group reset message (GRS) or Circuit group blocking message (CGB) with the indication hardware failure oriented				
SIP selection criteria			·		
ISUP selection criteria					
Test purpose	Ensure that the SUT after receiving more than one INVITE sending an IAM message for each call association on receipt of a CGB message, with the Circuit Group Supervision Message Type Indicator coded as "hardware failure oriented" were the Range and Status Parameter value is bigger than "1":  • the SUT shall send a BYE requests for each call association.				
SIP parameter values		·			
ISUP parameter values					
Comments	SIP-I		SUT	ISUP	
	INVITE(IAM) 1	<b>→</b>	<b>→</b>	IAM	
	180 Ringing(ACM)	+	<b>+</b>	ACM	
	200 OK INVITE(ANM)	+	+	ANM	
	ACK	<b>→</b>			
	INVITE(IAM) 2	<b>→</b>	<b>→</b>	IAM	
	180 Ringing(ACM)	+	+	ACM	
	200 OK INVITE(ANM)	+	+	ANM	
	ACK	<b>→</b>			
	BYE 1	+	+	CGB(hardware failure)	
	200 OK BYE	<b>→</b>	<b>→</b>	CGBA	
	BYE 2	+			
	200 OK BYE	→			

# 5.2.1.12 Receipt of the Suspend message (SUS) network initiated

TP112001	SIP reference: RFC 3261 [4]		ISUP reference: Q.1912.5 [1], clause 6.9		
TSS reference	SIP-ISUP/Basic call/ receipt of a SUSPEND message with the <b>suspend indicator</b> set to "network initiated"				
SIP selection criteria					
ISUP selection criteria					
Test purpose	Ensure that the SUT, on receipt of a SUSPEND message with the <b>suspend indicator</b> set to "network initiated":  • is transferred in an INFO message.				
SIP parameter values		J			
ISUP parameter values	SUS; Suspend indicator: network initiated				
Comments	SIP-I INVITE(IAM) 180 Ringing(ACM) 200 OK INVITE(ANM) ACK INFO(SUS) 200 OK INFO	÷	versation	÷ +	ISUP IAM ACM ANM SUS(network)
	BYE(REL) 200 OK BYE(RLC)	→ ←		<b>→</b>	REL RLC

TP112002	SIP reference: RFC 3261 [4]			ISUP reference: Q.1912.5 [1], clause 6.9		
TSS reference	SIP-ISUP/Basic call/ receipt of a SUSPEND message with the <b>suspend indicator</b> set to "network initiated"					
SIP selection criteria						
ISUP selection criteria	PICS 4/14					
Test purpose	Ensure that the SUT, on receipt of a SUSPEND message with the <b>suspend indicator</b> set to "network initiated":  To is started;  after To is expired, the call is released.					
SIP parameter values	INFO: encapsulated SUS					
ISUP parameter values	SUS; Suspend indicator: network initiated; REL: Cause value 102					
Comments	SIP-I		SUT		ISUP	
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM	
	180 Ringing(ACM)	+		+	ACM	
	200 OK INVITE(ANM)	+		+	ANM	
	ACK	<b>→</b>				
	Conversation					
	INFO(SUS)	+		+	SUS(network)	
	200 OK INFO	<b>→</b>				
			T6 is starte	ed		
			T6 is expire	ed		
	BYE(REL)	+		<b>→</b>	REL	
	200 OK BYE(RLC)	<b>→</b>		+	RLC	

# 5.2.1.13 Receipt of the RESume message (RES) network initiated

TP113001	SIP reference: RFC	3261 [4]		-	ISUP reference: 12.5 [1], clause 6.10		
TSS reference	SIP-ISUP/Basic call/						
SIP selection							
criteria							
ISUP selection							
criteria							
Test purpose	indicator set to "network init	Ensure that the SUT, on receipt of a RESUME message containing the suspend/resume indicator set to "network initiated":  the RES is transferred in an INFO message.					
SIP parameter values							
ISUP parameter	RES; Suspend indicator: r	network initiat	ed				
values							
Comments	SIP-I		SUT		ISUP		
	INVITE(IAM)	→		→	IAM		
	180 Ringing(ACM)	←		<b>←</b>	ACM		
	200 OK INVITE(ANM)	←		<b>←</b>	ANM		
	ACK	<b>→</b>					
			Conversation				
	INFO(SUS)	←		<b>←</b>	SUS(network)		
	200 OK INFO	<b>→</b>					
	INFO(RES)	+			RES(network)		
	200 OK INFO	<b>→</b>					
	BYE(REL)	<b>→</b>		<b>→</b>	REL		
	200 OK BYE(RLC)	+		+	RLC		

## 5.2.1.14 Receipt of Confusion message

TP114001	SIP reference: RFC 326	61 [4]			P reference:	
T00 (	LOUID OID #OUD M		<u> </u>		[1], clause A.1.1.3	
TSS reference	ISUP-SIP/ISUP Messages for s	pecial con	sideration	Confusion	message	
SIP selection						
criteria						
ISUP selection criteria						
Test purpose	Ensure that the SUT after receiving the INVITE with encapsulated IAM that contains an unknown parameter, sending an IAM message as received encapsulated in the INVITE request.  Ensure that when the succeeding node discards an unknown parameter and send back a Confusion message if indicated in the parameter compatibility information and the sending of a Confusion message is requested, the CFN message is transported through the SIP network encapsulated in the 183 Session Progress.					
SIP parameter values	180 Ringing containing an ACM	with an ur	nknown pa	rameter		
ISUP parameter values	INFO with encapsulated CFN					
Comments	SIP-I				ISUP	
	INVITE	<b>→</b>		→	IAM	
	183 Session Progress(CFN)	+		+	CFN	
	180 Ringing(ACM)	+		+	ACM	
	200 OK INVITE(ANM)	+		+	ANM	
	ACK	<b>→</b>				
		С	ommunica	ition		
	BYE(REL)	<b>→</b>		<b>→</b>	REL	
	200 OK BYE(RLC)	+		+	RLC	

## 5.2.1.15 Segmentation

TP115001	SIP reference: RF	FC 3261 [	[4]	ISUP reference: Q.1912.5 [1], clause A.1.1.3.1		
TSS reference	ISUP-SIP/ISUP Message:	s for spec	ial conside	ration/Rec	eipt	of a user part test message
SIP selection						
criteria						
ISUP selection						
criteria						
Test purpose	Ensure that a call can be	successfu	ally complet	ed if segm	nenta	ation applies in backward
	direction.					
SIP parameter	180 Ringing - encapsulate	ed ACM: c	optional bad	ckward cal	l indi	icator absent or set to "no
values	additional information will	be sent"				
	No action takes place on t	the SIP si	de			
ISUP parameter	ACM: optional backward of	call indica	tor: addition	nal informa	ation	will be sent in a segmentation
values	message					-
	SGM: optional parameters	S				
Comments	SIP-I		SUT	Γ		ISUP
	INVITE(IAM)	<b>→</b>			<b>→</b>	IAM
	180 Ringing(ACM)	+			+	ACM
					+	SGM
	200 OK INVITE(ANM)	+			+	ANM
	ACK →					
			Convers	ation		
	BYE(REL)	<b>→</b>			<b>→</b>	REL
	200 OK BYE	+			<b>←</b>	RLC

# 5.2.2 Interworking from ISUP to SIP-I

# 5.2.2.1 Sending of the INVITE message

TP301001	SIP reference: RFC 3261	[4]		ISUP reference: 2.5 [1], clause 7.1 1 a)		
TSS reference	ISUP-SIP /Basic call/Sending of th	e INVITE m	nessage			
SIP selection						
criteria						
ISUP selection						
criteria						
Test purpose	Ensure that the SUT in Idle state, on receipt of an IAM message containing the complete called party number and the sending complete indication:  • sends the INVITE message with the encapsulated IAM in the MIME body.					
SIP parameter						
values						
ISUP parameter	IAM; Called party number: with s	ending com	plete indication			
values						
Comments	ISUP/BICC		SUT	SIP-I		
	IAM -	<b>→</b>	→	INVITE(IAM)		
	ACM	F	+	180 Ringing(ACM)		
	ANM	F	+	200 OK INVITE(ANM)		
			→	ACK		
		Conv	ersation			
	REL -	<b>&gt;</b>	→	BYE(REL)		
	RLC •	F	+	200 OK BYE(RLC)		

TP301002	SIP reference: RFC 326	61 [4]			SUP reference: .5 [1], clause 7.1 1 b)		
TSS reference	ISUP-SIP /Basic call/Sending of the INVITE message						
SIP selection							
criteria							
ISUP selection							
criteria							
Test purpose	Ensure that the SUT in Idle state, on receipt of an IAM message containing the maximum number of digits used in the national numbering plan:  • sends the INVITE message.						
SIP parameter values							
ISUP parameter values	IAM; Called party number com	plete	number				
Comments	ISUP/BICC		SUT		SIP-I		
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)		
	ACM	+		+	180 Ringing(ACM)		
	ANM	+		+	200 OK INVITE(ANM)		
	→ ACK						
		•	Conversation	•			
	REL	<b>→</b>		<b>→</b>	BYE(REL)		
	RLC	+		+	200 OK BYE(RLC)		

TP301003	SIP reference: RFC 3261	1 [4]	G		SUP reference: .5 [1], clause 7.1 1 c)			
TSS reference	ISUP-SIP /Basic call/Sending of t	ISUP-SIP /Basic call/Sending of the INVITE message						
SIP selection criteria								
ISUP selection criteria								
Test purpose	Ensure that the SUT in Idle state, on receipt of an IAM message containing the complete called party number where the end of address signalling is determined by analysis of the called party number to indicate that a sufficient number of digits has been received to route the call to the called party:  • sends the INVITE message.							
SIP parameter values	_							
ISUP parameter values	IAM; Called party number: comp	olete numbe	er					
Comments	ISUP/BICC		SUT		SIP-I			
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)			
	ACM	<b>←</b>		+	180 Ringing(ACM)			
	ANM	<b>←</b>		+	200 OK INVITE(ANM)			
		→ ACK						
		Con	versation					
	REL	<b>→</b>		<b>→</b>	BYE(REL)			
	RLC	<del>(</del>		+	200 OK BYE(RLC)			

TP301004	SIP reference: RFC 3261 [	<u>t]</u>			SUP reference: .5 [1], clause 7.1 1 d)	
TSS reference	ISUP-SIP /Basic call/Sending of the	INVITE	message			
SIP selection criteria						
ISUP selection criteria						
Test purpose	Ensure that the SUT in Idle state, on receipt of an IAM message containing the <b>complete called party number</b> where the end of address signalling is determined by the expiration timer T <sub>OIW1</sub> after the receipt of the latest address message:  • sends the INVITE message.					
SIP parameter values						
ISUP parameter values						
Comments	ISUP/BICC		SUT		SIP-I	
	IAM →					
		TOI	N1 expiry			
				<b>→</b>	INVITE(IAM)	
	ACM ←			+	180 Ringing(ACM)	
	ANM ←			+	200 OK INVITE(ANM)	
				<b>→</b>	ACK	
		Con	versation			
	REL →			<b>→</b>	BYE(REL)	
	RLC ←			<b>←</b>	200 OK BYE(RLC)	

TP301005	SIP reference: RFC 3261	[4]	Q.		SUP reference: 2.5 [1], clause 7.1 A)		
TSS reference	ISUP-SIP/Basic call/Sending of the INVITE message						
SIP selection criteria							
ISUP selection criteria	PICS 1/5						
Test purpose	Ensure that the SUT in Idle state, on receipt of an IAM message with the <b>complete called</b> party number containing the Continuity Check indicator in the Nature of Connection Indicators parameter is set to indicate "continuity check not required":  sends a INVITE message.						
SIP parameter values							
ISUP parameter values							
Comments	ISUP		SUT		SIP-I		
	IAM -	<b>&gt;</b>		<b>→</b>	INVITE(IAM)		
	ACM	<b>-</b>		<del>(</del>	180 Ringing(ACM)		
	ANM	<b>-</b>		<del>(</del>	200 OK INVITE(ANM)		
				<b>→</b>	ACK		
		Conv	ersation				
	REL -	<b>→</b>		<b>→</b>	BYE(REL)		
	RLC •	-		<del>-</del>	200 OK BYE(RLC)		

TP301006	SIP reference: RFC 3261 [4]	Į;	SUP reference:		
		Q.191	2.5 [1], clause 7.1 A)		
TSS reference	ISUP-SIP/Basic call/Sending of the INVITE	message			
SIP selection criteria	NOT PICS 4/4 AND NOT PICS 4/5 AND N	OT PICS 4/15			
ISUP selection criteria	PICS 1/5				
Test purpose	Ensure that the SUT in Idle state, on receipt of an IAM message with the complete called party number containing the Continuity Check indicator in the Nature of Connection Indicators parameter which is set to "continuity check required on this circuit":  • sends the INVITE after the receipt of the Continuity message with the Continuity Indicators parameter "continuity check successful".				
SIP parameter values					
ISUP parameter values					
Comments	ISUP	SUT	SIP-I		
	IAM →				
	COT →	<b>→</b>	INVITE(IAM)		
	ACM ←	+	180 Ringing(ACM)		
	ANM ←	+	200 OK INVITE(ANM)		
		<b>→</b>	ACK		
	Co	onversation			
	REL →	<b>→</b>	BYE(REL)		
	RLC ←	+	200 OK BYE(RLC)		

TP301007	SIP reference: RFC 3261 [4]	Į;	SUP reference:			
		Q.191	2.5 [1], clause 7.1 A)			
TSS reference	ISUP-SIP/Basic call/Sending of the INVITE n	nessage				
SIP selection	NOT PICS 4/4 AND NOT PICS 4/5 AND NO	T PICS 4/15				
criteria						
ISUP selection	PICS 1/5					
criteria						
Test purpose	Ensure that the SUT in Idle state, on receipt of an IAM message with the complete called party number containing the Continuity Check indicator in the Nature of Connection Indicators parameter which is set to "continuity check performed on previous circuit":  • sends the INVITE after the receipt of the Continuity message with the Continuity Indicators parameter "continuity check successful".					
SIP parameter values						
ISUP parameter values						
Comments	ISUP	SUT	SIP-I			
	IAM →					
	COT →	→	INVITE(IAM)			
	ACM ←	+	180 Ringing(ACM)			
	ANM ←	+	200 OK INVITE(ANM)			
	→ ACK					
	Con	versation				
	REL →	→	BYE(REL)			
	RLC ←	+	200 OK BYE(RLC)			

TP301008	SIP reference: RFC 326	1 [4]	ISUP reference:			
			Q.191	l2.5 [1], clause 7.1 A)		
TSS reference	ISUP-SIP/Basic call/Sending of					
SIP selection	NOT PICS 4/4 AND NOT PICS 4	4/5 AND NOT	PICS 4/15			
criteria						
ISUP selection	PICS 1/5					
criteria						
Test purpose	Ensure that the SUT in Idle state, on receipt of an IAM message containing the Continuity Check indicator in the Nature of Connection Indicators parameter which is set to "continuity check required on this circuit". INVITE shall not be sent if the Continuity message is received with the Continuity Indicators parameter set to "continuity check failed".					
SIP parameter						
values						
ISUP parameter						
values						
Comments	ISUP		SUT	SIP-I		
	IAM	<b>→</b>				
	COT	<b>→</b>				

TP301009	SIP reference: RFC 3261	[4]	Q.1	ISUP reference: 912.5 [1], clause 7.1 A)			
TSS reference	ISUP-SIP/Basic call/Sending of the INVITE message						
SIP selection	NOT PICS 4/4 AND NOT PICS 4/5						
criteria	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
ISUP selection criteria	PICS 1/5						
Test purpose	Ensure that the SUT in Idle state, on receipt of an IAM message containing the Continuity Check indicator in the Nature of Connection Indicators parameter which is set to "continuity check required on this circuit". INVITE shall not be sent if the ISUP timer T8 expires. The SUT:  • sends a REL message.						
SIP parameter values							
ISUP parameter values							
Comments	ISUP	S	SUT	SIP-I			
	IAM →						
		T8 (	expiry				
	REL	-					
	RLC →						

TP301010	SIP reference: RFC 3261	[4]		ISUP reference:			
	Q.1912.5 [1], clause 7.1 B)						
TSS reference	ISUP-SIP/Basic call/Sending of the	INVITE me	essage				
SIP selection	PICS 4/4 AND PICS 4/5 AND PICS	S 4/15					
criteria							
ISUP selection	PICS 1/5 AND PICS 4/2						
criteria							
Test purpose	Ensure that the SUT in Idle state, of						
	indicator in the Nature of Connection		s parameter in	the IAM is set to indicate			
	"continuity check not required":						
	<ul> <li>sends an INVITE message with</li> </ul>	thout preco	ndition using th	ne SDP offer in the INVITE.			
SIP parameter							
values							
ISUP parameter values							
Comments	ISUP	5	SUT	SIP-I			
	IAM = \frac{1}{2}	•		INVITE(IAM)			
	ACM •	<del>[</del>	•	100 111191119			
	ANM ← 200 OK INVITE(ANM)						
	→ ACK						
		Conv	ersation				
	REL -	<b>&gt;</b>	-	BYE(REL)			
	RLC •	<b>-</b>	•	200 OK BYE(RLC)			

TP301011	SIP reference: RFC 320	61 [4]				SUP reference:
		[ . ]		G	-	2.5 [1], clause 7.1 B)
TSS reference	ISUP-SIP/Basic call/Sending of the INVITE message					
SIP selection	PICS 4/4 AND PICS 4/5 AND P					
criteria						
ISUP selection	PICS 1/5 AND PICS 4/2					
criteria						
Test purpose	Ensure that the SUT in Idle state, on receipt of an IAM message where the Continuity Check indicator in the Nature of Connection Indicators parameter in the IAM is set to indicate "continuity check required on this circuit":  • sends an INVITE message with precondition using the SDP offer in the INVITE. The SDP offer or answer carrying the confirmation of a precondition being met is sent when the Continuity message with the Continuity Indicators parameter set to "continuity check"					
						s are met in the SIP network.
SIP parameter						
values						
ISUP parameter						
values						
Comments	ISUP		S	SUT		SIP-I
	IAM	<b>→</b>			<b>→</b>	INVITE(IAM)
					+	183 Session Progress
					<b>→</b>	PRACK
					←	200 OK PRACK
	COT(successful)	<b>→</b>			<b>→</b>	UPDATE
					+	200 OK UPDATE
	Preconditions met					
	ACM         ←         180 Ringing(ACM)           ANM         ←         200 OK INVITE(ANM)					
					<b>→</b>	ACK
			Conve	ersation		
	REL	<b>→</b>			<b>→</b>	BYE(REL)
	RLC	4			+	200 OK BYE(RLC)

TP301012	SIP reference: RFC 326	31 [4]			IS	SUP reference:	
		Q.1912.5 [1], clause 7.1 B)					
TSS reference	ISUP-SIP/Basic call/Sending of	the IN	VITE me	ssage			
SIP selection	PICS 4/4 AND PICS 4/5 AND P	ICS 4/	15				
criteria							
ISUP selection	PICS 1/5 AND PICS 4/2						
criteria							
Test purpose	Ensure that the SUT in Idle state, on receipt of an IAM message where the Continuity Check indicator in the Nature of Connection Indicators parameter in the IAM is set to indicate "continuity check performed on previous circuit":  • sends an INVITE message with precondition using the SDP offer in the INVITE. The SDP offer or answer carrying the confirmation of a precondition being met is sent when the Continuity message with the Continuity Indicators parameter set to "continuity check successful" was received and the requested preconditions are met in the SIP network.						
SIP parameter	Successiui was received a	anu in	e reques	ted precond	illiOffic	s are met in the SIF hetwork.	
values							
ISUP parameter							
values							
Comments	ISUP		S	UT		SIP-I	
	IAM	<b>→</b>			<b>→</b>	INVITE(IAM)	
					+	183 Session Progress	
					<b>→</b>	PRACK	
					+	200 OK PRACK	
	COT(successful)	<b>→</b>			<b>→</b>	UPDATE	
					+	200 OK UPDATE	
			Precond	itions met			
	ACM	+			+	180 Ringing(ACM)	
	ANM	+			+	200 OK INVITE(ANM)	
					<b>→</b>	ACK	
			Conve	rsation			
	REL	<b>→</b>			<b>→</b>	BYE(REL)	
	RLC	+			+	200 OK BYE(RLC)	

TP301013	SIP reference: RFC 326	1 [4]	0.10	ISUP reference:				
TSS reference	ISLIP-SIP/Basic call/Sending of t	Q.1912.5 [1], clause 7.1 B) ISUP-SIP/Basic call/Sending of the INVITE message						
SIP selection criteria	PICS 4/4 AND PICS 4/5 AND PI		cosage					
ISUP selection criteria	PICS 1/5 AND PICS 4/2							
Test purpose	The SUT in Idle state, receives an IAM message containing the Continuity Check indicator in the Nature of Connection Indicators parameter which is set to "continuity check required on this circuit" and sends an INVITE message with precondition using the SDP offer in the INVITE. The Continuity message is received with the Continuity Indicators parameter set to "continuity check failed". The call has been cleared before an early dialogue has been established. Ensure that the SUT:  • sends CANCEL on the SIP side.							
SIP parameter values								
ISUP parameter values								
Comments	ISUP	;	SUT	SIP-I				
	IAM	<b>→</b>	<b>→</b>	INVITE(IAM)				
			<b>+</b>	100 Trying				
	COT(unsuccessful) → CANCEL							
			+	200 OK CANCEL				
			+	487 Request Terminated				
			→	ACK				

TP301014	SIP reference: RFC 326	61 [4]		I	SUP reference:		
	Q.1912.5 [1], clause 7.1 B)						
TSS reference	ISUP-SIP/Basic call/Sending of	the INVIT	E message				
SIP selection	PICS 4/4 AND PICS 4/5 AND PI	ICS 4/15					
criteria							
ISUP selection	PICS 1/5 AND PICS 4/2						
criteria							
Test purpose	The SUT in Idle state, receives a						
	the Nature of Connection Indica						
	this circuit" and sends an INVI						
	INVITE. The ISUP Timer T8 exp	<b>pires</b> . The	call has bee	en cleared	d <b>before</b> an early dialogue has		
	been established. Ensure that the	ne SUT:					
	<ul> <li>sends CANCEL on the SIP</li> </ul>	side.					
SIP parameter							
values							
ISUP parameter							
values							
Comments	ISUP		SUT		SIP-I		
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)		
	← 100 Trying						
	T8 expires						
	REL(#47)						
	RLC	<b>→</b>		<b>←</b>	200 OK CANCEL		
				+	487 Request Terminated		
			·	<b>→</b>	ACK		

TP301015	SIP reference: RFC 3261 [4]	IS	SUP reference:			
	Q.1912.5 [1], clause 7.1 C)					
TSS reference	ISUP-SIP/Basic call/Sending of the INVITE m	essage				
SIP selection	NOT PICS 4/15					
criteria						
ISUP selection	PICS 1/4					
criteria						
Test purpose	Ensure that the SUT in Idle state, on receipt of	of an IAM message	e indicating "COT to be			
	expected":					
	<ul> <li>The sending of the INVITE is delayed un</li> </ul>					
	<ul> <li>Continuity message, with the Con</li> </ul>	tinuity Indicators p	arameter set to "continuity"			
	shall be received.					
	<ul> <li>Bearer Set-up indication - for the</li> </ul>					
	Connect Type is "notification not i	equired" was rece	ived.			
SIP parameter						
values						
ISUP parameter						
values						
Comments		SUT	SIP-I			
	IAM →					
	COT(successful) →	→	INVITE(IAM)			
	ACM ←	<b>←</b>	180 Ringing(ACM)			
	ANM ←	+	200 OK INVITE(ANM)			
		→	ACK			
	Conversation					
	REL →	<b>→</b>	BYE(REL)			
	RLC ←	+	200 OK BYE(RLC)			

TP301016	SIP reference: RFC 3261 [4]	-	SUP reference:				
TSS reference:	Q.1912.5 [1], clause 7.1 C) ISUP-SIP/Basic call/Sending of the INVITE message						
SIP selection	NOT PICS 4/15	message					
criteria	NOT PICS 4/15						
ISUP selection	PICS 1/4						
	PICS 1/4						
criteria	E distribution in	( 1004	: I' I' I'OOT (. I				
Test purpose	Ensure that the SUT in Idle state, on receipt expected":	of an IAM messag	e indicating "COT to be				
	<ul> <li>The sending of the INVITE is delayed until all the following conditions are satisfied:         <ul> <li>Continuity message, with the Continuity Indicators parameter set to "continuity" shall be received.</li> <li>APM with Action indicator set to "Connected" - for the forward bearer set-up cases (with, or without bearer control tunnelling) where the incoming Connect Type is "notification required", and for the fast set-up (backward) case.</li> </ul> </li> </ul>						
SIP parameter							
values							
ISUP parameter							
values							
Comments	BICC	SUT	SIP-I				
	IAM →						
	COT(successful) →						
	APM →	→	INVITE(IAM)				
	ACM ←						
	ANM ← 200 OK INVITE(ANM)						
		<b>→</b>	ACK				
	Col	nversation					
	REL →	<b>→</b>	BYE(REL)				
	RLC ←	+	200 OK BYE(RLC)				

TP301017	SIP reference: RFC 3261 [4]		SUP reference:
		Q.191	2.5 [1], clause 7.1 C)
TSS reference	ISUP-SIP/Basic call/Sending of the INVITE	message	
SIP selection	NOT PICS 4/15		
criteria			
ISUP selection	PICS 1/4		
criteria			
Test purpose	Ensure that the SUT in Idle state, on receipt	of an IAM messag	e indicating "COT to be
	expected":		
	The sending of the INVITE delays until		
	<ul> <li>Continuity message, with the Co</li> </ul>	ntinuity Indicators	parameter set to "continuity"
	shall be received.		
	<ul> <li>Bearer Set-up Connect indicatio</li> </ul>	n - for the backwar	d bearer set-up case was
	received.		
SIP parameter			
values			
ISUP parameter			
values			
Comments	ISUP	SUT	SIP-I
	IAM →		
	COT(successful) →	<b>→</b>	INVITE(IAM)
	ACM ←	<b>←</b>	180 Ringing(ACM)
	ANM ←	<b>←</b>	200 OK INVITE(ANM)
		<b>→</b>	ACK
	Co	nversation	
	REL →	<b>→</b>	BYE(REL)
	RLC ←	+	200 OK BYE(RLC)

TP301018	SIP reference: RFC 326		Q.1912.	SUP reference: 5 [1], clause 7.1 C) 2.4			
TSS reference	ISUP-SIP/Basic call/Sending of the	he INVITE me	essage				
SIP selection criteria	NOT PICS 4/15						
ISUP selection criteria	PICS 1/4	PICS 1/4					
Test purpose	Ensure that the SUT in Idle state, on receipt of an IAM message indicating "COT to be expected":  The sending of the INVITE delays until all the following conditions are satisfied: Continuity message, with the Continuity Indicators parameter set to "continuity" shall be received. BNC set-up success indication for cases using bearer control tunnelling was received.						
SIP parameter values							
ISUP parameter values							
Comments	ISUP	5	SUT	SIP-I			
	IAM	<b>→</b>					
	COT(successful)	<b>→</b>	<b>→</b>	INVITE(IAM)			
	ACM	+	+	180 Ringing(ACM)			
	ANM ← 200 OK INVITE(ANM)						
	→ ACK						
		Conv	ersation				
	REL	<b>→</b>	<b>→</b>	BYE(REL)			
	RLC	+	+	200 OK BYE(RLC)			

TP301019	SIP reference: RFC 326	61 [4]		_	SUP reference:				
TSS reference	ISUP-SIP/Basic call/Sending of	Q.1912.5 [1], clause 7.1 C) ISUP-SIP/Basic call/Sending of the INVITE message							
SIP selection criteria	NOT PICS 4/15								
ISUP selection criteria	PICS 1/4	PICS 1/4							
Test purpose	Ensure that the SUT in Idle state, on receipt of an IAM message indicating "COT to be expected":  • sends not the INVITE if the Continuity message was not received, i.e. the BICC timer T8 expires:  • send REL with Cause Value 41 (temporary failure) shall be sent on the BICC side of the O-IWU.								
SIP parameter values									
ISUP parameter values									
Comments	ISUP		SUT		SIP-I				
	IAM	<b>→</b>							
	T8 expires								
	REL(#41) ←								
	RLC	RLC →							

TP301020	SIP reference: RFC 3261 [4]			SUP reference: 5 [1], clause 7.1 D)			
TSS reference	ISUP-SIP/Basic call/Sending of the IN	ISUP-SIP/Basic call/Sending of the INVITE message					
SIP selection criteria	PICS 4/4 AND PICS 4/5 AND PICS 4/	/15					
ISUP selection criteria	PICS 1/4 AND PICS 4/2						
Test purpose	Ensure that the SUT in Idle state, on receipt of an IAM message indicating "COT to be expected" sends an INVITE message with precondition using the SDP offer in the INVITE. The precondition signalling is concluded upon sending the (within an SDP offer-answer exchange) confirmation of a precondition being met. The SDP offer or answer carrying the confirmation of a precondition being met is sent when all of the following conditions are satisfied when:  Continuity message, with the Continuity Indicators parameter set to "continuity" shall be received.  Bearer Set-up indication - for the forward bearer set-up case where the incoming Connect Type is "notification not required" was received.						
SIP parameter values							
ISUP parameter values							
Comments	ISUP	SUT		SIP-I			
	IAM →		<b>→</b>	INVITE(IAM)			
			+	183 Session Progress			
				PRACK			
			+	200 OK PRACK			
	COT(successful) →		<b>→</b>	UPDATE			
	, ,		+	200 OK UPDATE			
	Preconditions met						
	ACM <b>←</b>		+	180 Ringing(ACM)			
	ANM <b>←</b>			200 OK INVITE(ANM)			
			<b>→</b>	ACK			
		Conversa					
	REL →			BYE(REL)			
	RLC ←		+	200 OK BYE(RLC)			

TP301021	SIP reference: RFC 3261 [4]				SUP reference:		
				1912.	5 [1], clause 7.1 D) 2.2		
TSS reference	ISUP-SIP/Basic call/Sending of the IN	ISUP-SIP/Basic call/Sending of the INVITE message					
SIP selection criteria	PICS 4/4 AND PICS 4/5 AND PICS 4/	PICS 4/4 AND PICS 4/5 AND PICS 4/15					
ISUP selection	DICC 4/4 AND DICC 4/0						
criteria	PICS 1/4 AND PICS 4/2						
Test purpose	Ensure that the SUT in Idle state, on re	:-4 -4	IAM		a indication ICOT to be		
	<ul> <li>expected" sends an INVITE message with precondition using the SDP offer in the INVITE. The precondition signalling is concluded upon sending the (within an SDP offer-answer exchange) confirmation of a precondition being met. The SDP offer or answer carrying the confirmation of a precondition being met is sent when all of the following conditions are satisfied when:</li> <li>Continuity message, with the Continuity Indicators parameter set to "continuity" shall be received.</li> <li>APM with Action indicator set to "Connected" - for the forward bearer set-up cases (with, or without bearer control tunnelling) where the incoming Connect Type is "notification required", and for the fast set-up (backward) case.</li> </ul>						
SIP parameter			,				
values							
ISUP parameter							
values							
Comments	ISUP/BICC	S	JT		SIP-I		
	IAM →			<b>→</b>	INVITE(IAM)		
				+	183 Session Progress		
				<b>→</b>	PRACK		
				+	200 OK PRACK		
	COT(successful) →			<b>→</b>	UPDATE		
				+	200 OK UPDATE		
	Preconditions met						
	ACM ←			+	180 Ringing(ACM)		
	ANM ←			+	200 OK INVITE(ANM)		
				1	ACK		
		Conve	rsation				
	REL →			<b>→</b>	BYE(REL)		
	RLC ←			+	200 OK BYE(RLC)		

TP301022	SIP reference: RFC 3261	[4]	Q.19	ISUP reference: 12.5 [1], clause 7.1 D) 2.3				
TSS reference	ISUP-SIP/Basic call/Sending of the	ISUP-SIP/Basic call/Sending of the INVITE message						
SIP selection	PICS 4/4 AND PICS 4/5 AND PICS	3 4/15	-					
criteria								
ISUP selection	PICS 1/4							
criteria								
Test purpose	Ensure that the SUT in Idle state, on receipt of an IAM message indicating "COT to be expected" sends an INVITE message with precondition using the SDP offer in the INVITE. The precondition signalling is concluded upon sending the (within an SDP offer-answer exchange) confirmation of a precondition being met. The SDP offer or answer carrying the confirmation of a precondition being met is sent when all of the following conditions are satisfied when:  Continuity message, with the Continuity Indicators parameter set to "continuity" shall be received.  Bearer Set-up Connect indication - for the backward bearer set-up case was received.							
SIP parameter								
values								
ISUP parameter								
values								
Comments	ISUP/BICC		SUT	SIP-I				
	IAM -	•		→ INVITE(IAM)				
				← 183 Session Progress				
				→ PRACK				
			•	€ 200 OK PRACK				
	COT(successful)	•	•	→ UPDATE				
			1	€ 200 OK UPDATE				
		Precond	ditions met					
	ACM •	•	•	← 180 Ringing(ACM)				
	ANM	•	1	€ 200 OK INVITE(ANM)				
				→ ACK				
		Conv	ersation					
	REL -	•		→ BYE(REL)				
	RLC	•		€ 200 OK BYE(RLC)				

TP301023	SIP reference: RFC 3261 [4			I;	SUP reference:		
	_		Q.1	912.	5 [1], clause 7.1 D) 2.4		
TSS reference	ISUP-SIP/Basic call/Sending of the I	NVITE me	essage				
SIP selection	PICS 4/4 AND PICS 4/5 AND PICS	4/15					
criteria							
ISUP selection	PICS 1/4 AND PICS 4/2						
criteria							
Test purpose	Ensure that the SUT in Idle state, on receipt of an IAM message indicating "COT to be expected" sends an INVITE message with precondition using the SDP offer in the INVITE. The precondition signalling is concluded upon sending the (within an SDP offer-answer exchange) confirmation of a precondition being met. The SDP offer or answer carrying the confirmation of a precondition being met is sent when all of the following conditions are satisfied when  Continuity message, with the Continuity Indicators parameter set to "continuity" shall be received.  BNC set-up success indication for cases using bearer control tunnelling was received.						
SIP parameter					g		
values							
ISUP parameter							
values							
Comments	BICC	S	SUT		SIP-I		
	IAM →			<b>→</b>	INVITE(IAM)		
				+	183 Session Progress		
				<b>→</b>	PRACK		
				+	200 OK PRACK		
	COT(successful) →			<b>→</b>	UPDATE		
				+	200 OK UPDATE		
		Precond	ditions met				
	ACM ←			<b>←</b>	180 Ringing(ACM)		
	ANM ←			+	200 OK INVITE(ANM)		
		-		<b>→</b>	ACK		
		Conv	ersation				
	REL →			<b>→</b>	BYE(REL)		
	RLC ←			+	200 OK BYE(RLC)		

TP301024	SIP reference: RFC 326	61 [4]		15	SUP reference:			
	Q.1912.5 [1], clause 7.1 D)							
TSS reference	ISUP-SIP/Basic call/Sending of	the INVITE m			,			
SIP selection	PICS 4/4 AND PICS 4/5 AND PI							
criteria								
ISUP selection	PICS 1/4 AND PICS 4/2							
criteria								
Test purpose	The SUT in Idle state, on receip							
	in the Nature of Connection Indi							
	sends an INVITE message with							
	ensure that the SUT sends				xpires if the call has been			
	cleared <b>before</b> an early dia	logue has be	en establishe	ed.				
SIP parameter								
values								
ISUP parameter								
values								
Comments	BICC		SUT		SIP-I			
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)			
				+	100 Trying			
		T8	expires					
	REL(#47)	+		<b>→</b>	CANCEL			
	RLC	<b>→</b>		+	200 OK CANCEL			
				+	487 Request Terminated			
				<b>→</b>	ACK			

TP301025	SIP reference: RFC 3261 [4]			ISUP reference:			
	Q.1912.5 [1], clause 7.1						
TSS reference	ISUP-SIP/Basic call/Sending of the INV	ITE mes	sage				
SIP selection	PICS 4/4 AND PICS 4/5 AND PICS 4/15	5					
criteria							
ISUP selection	PICS 1/4 AND PICS 4/2						
criteria							
Test purpose	<ul> <li>Ensure that the SUT in Idle state, on receipt of an IAM message containing Continuity Check indicator in the Nature of Connection Indicators parameter which is set to "COT to be expected". Ensure that the SUT:</li> <li>sends CANCEL if on the SIP side the internal resource reservation was unsuccessful and if the call has been cleared before an early dialogue with the message has been established;</li> <li>a REL with Cause Value 47 (resource unavailable, unspecified) shall be sent on the ISUP side of the O-IWU.</li> </ul>						
SIP parameter values							
ISUP parameter values							
Comments	BICC	SL	JT	SIP-I			
	IAM →		-	→ INVITE(IAM)			
			•	← 100 Trying			
	internal resource reservation was unsuccessful						
	REL(#47) ← CANCEL						
	RLC →		•	← 200 OK CANCEL			
				← 487 Request Terminated			
			-	→ ACK			

TP301026	SIP reference: RFC 3	3261 [4]	Q.19	ISUP reference: 912.5 [1], clause 7.1.1			
TSS reference	ISUP-SIP/Basic call/ Sending	of the INVITE m					
SIP selection criteria	Based on table 6		<u> </u>				
ISUP selection criteria							
Test purpose	Ensure that the SUT in the Idle state on receipt of a IAM message, with the <b>Transmission</b> Medium Requirement (TMR) parameter set to TMR_VALUE if no USI parameter is contained in the IAM:  • sends an INVITE message containing the media description defined with the "a =" "b =" and "m=" lines set to a_b_m_LINE_VALUE.						
SIP parameter values	INVITE : a_b_m_LINE_VALU						
ISUP parameter values	IAM: TMR : ISUP_TMR						
Comments	ISUP/BICC	SU	JT	SIP-I			
	IAM	<b>→</b>	→	INVITE(IAM)			
	ACM	+	+	180 Ringing(ACM)			
	ANM	+	+	200 OK INVITE(ANM)			
	→ ACK						
		Conver	sation				
	REL	<b>→</b>	→	BYE(REL)			
	RLC	+	+	200 OK BYE(RLC)			

TP301027	SIP reference: RFC 3261 [4]			_	SUP reference:		
	Q.1912.5 [1], clause 7.1.1						
TSS reference	ISUP-SIP/Basic call/ Sending	of the INVIT	E message				
SIP selection criteria	Based on table 7						
ISUP selection criteria							
Test purpose	<ul> <li>Ensure that the SUT in the Idle state on receipt of an IAM message, with the user information parameter set to USI_VALUE:</li> <li>sends an INVITE message, with the media description defined with the "a = " "b =" and "m=" lines set to a_b_m_LINE_VALUE.</li> </ul>						
SIP parameter values	INVITE: a_b_m_LINE_VALU	E					
ISUP parameter values	IAM: USI : ISUP_USI						
Comments	ISUP/BICC		SUT		SIP-I		
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)		
	ACM	+		+	180 Ringing(ACM)		
	ANM	+		+	200 OK INVITE(ANM)		
	→ ACK						
		Cor	versation				
	REL	<b>→</b>		<b>→</b>	BYE(REL)		
	RLC	+		+	200 OK BYE(RLC)		

Table 6

	Values for test purposes TP301026								
	ISUP SDP - a_b_m_LINE_VALUE								
	TMR parameter	m= line			b= line	a= line			
	TMR codes	<media></media>	<transport></transport>	<fmt-list></fmt-list>	<modifier>:<bandw idth-value=""></bandw></modifier>	rtpmap: <dynamic-pt> <encoding name="">/<clock rate="">[/encoding parameters&gt;</clock></encoding></dynamic-pt>			
VA_01	"speech"	Audio	RTP/AVP	0 (and possibly 8)	AS:64	rtpmap:0 PCMU/8000 (and possibly rtpmap:8 PCMA/8000)			
	"speech"	Audio	RTP/AVP	8	AS:64	rtpmap:8 PCMA/8000			
VA_02	"3,1 KHz audio"	Audio	RTP/AVP	0 and/or 8	AS:64	rtpmap:0 PCMU/8000 and/or rtpmap:8 PCMA/8000			
VA_03	"64 kbit/s unrestricted"	Audio	RTP/AVP	9	AS:64	rtpmap:9 G722/8000			
	"64 kbit/s unrestricted"	Audio	RTP/AVP	Dynamic PT	AS:64	rtpmap: <dynamic-pt> CLEARMODE/8000</dynamic-pt>			

Table 7

				Values for te	est purpo	ses TP3010	27				
VA	VA ISUP					SDP - a_b_m_LINE_VALUE					
		USI parameter		HLC IE in ATP	m= line			b= line	a= line		
	TMR	Information Transfer Capability	User Information Layer 1 Protocol Indicator	High Layer Characteristics Identification	<media></media>	<transport></transport>	<fmt-list></fmt-list>	<modifier>:<bandwidt h-value=""></bandwidt></modifier>	rtpmap: <dynamic-pt> <encoding name="">/<clock rate="">[/encoding parameters&gt;</clock></encoding></dynamic-pt>		
VA_01	"speech"	"Speech"	"G.711 μ-law"	Ignore	audio	RTP/AVP	0 (and possibly 8)	AS:64	rtpmap:0 PCMU/8000 (and possibly rtpmap:8 PCMA/8000)		
VA_02	"speech"	"Speech"	"G.711 A-law"	Ignore	audio	RTP/AVP	8	AS:64	rtpmap:8 PCMA/8000		
VA_03	"3,1 KHz audio"	USI Absent		Ignore	audio	RTP/AVP	0 and/or 8	AS:64	rtpmap:0 PCMU/8000 and/or rtpmap:8 PCMA/8000		
VA_04	"3,1 KHz audio"	"3,1 KHz audio"	"G.711 μ-law"		audio	RTP/AVP	0 (and possibly 8)	AS:64	rtpmap:0 PCMU/8000 (and possibly rtpmap:8 PCMA/8000)		
VA_05	"3,1 KHz audio"	"3,1 KHz audio"	"G.711 A-law"		audio	RTP/AVP	8	AS:64	rtpmap:8 PCMA/8000		
VA_06	"3,1 KHz audio"	"3,1 KHz audio"	"G.711 A-law"	"Facsimile Group 2/3"	image	tcptl	t38	AS:64	Based on T.38.		
VA_07	"3,1 KHz audio"	"3,1 KHz audio"	"G.711 A-law"	"Facsimile Group 2/3"	image	udptl	t38	AS:64	Based on T.38.		
VA_08	"3,1 KHz audio"	"3,1 KHz audio"	"G.711 µ-law"	"Facsimile Group 2/3"	image	udptl	t38	AS:64	Based on T.38.		
VA_09	"3,1 KHz audio"	"3,1 KHz audio"	"G.711 µ-law"	"Facsimile Group 2/3"	image	tcptl	t38	AS:64	Based on T.38.		
VA_10	"64 kbit/s unrestricted"	"Unrestricted digital inf. W/tone/ann."	N/A	Ignore	audio	RTP/AVP	9	AS:64	Rtpmap:9 G722/8000		
VA_11	"64 kbit/s unrestricted"	"Unrestricted digital information"	N/A	Ignore	Audio	RTP/AVP	Dynamic PT	AS:64	rtpmap: <dynamic-pt> CLEARMODE/8000</dynamic-pt>		

TP301028	SIP reference: RFC 32	Q	_	SUP reference: 2.5 [1], clause 7.1.2				
TSS reference	ISUP-SIP/Basic call/ Sending of the INVITE message							
SIP selection								
criteria								
ISUP selection								
criteria								
Test purpose	Called Party Number paramete	Ensure that the SUT is mapping the Called Party address information contained in the Called Party Number parameter of the IAM:  • to the addr-spec component of the <b>To header field</b> in the INVITE message.						
SIP parameter	INVITE: To:				<del>-</del>			
values								
ISUP parameter								
values								
Comments	ISUP/BICC	5	SUT		SIP-I			
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)			
	ACM	+		<del>(</del>	180 Ringing(ACM)			
	ANM	+		<del>(</del>	200 OK INVITE(ANM)			
		→ ACK						
		Conv	ersation					
	REL	<b>→</b>		<b>→</b>	BYE(REL)			
	RLC	<del>(</del>		<del>(</del>	200 OK BYE(RLC)			

TP301029	SIP reference: RFC 3261 [	4]	I	SUP reference:					
			Q.191	12.5 [1], clause 7.1.2					
TSS reference	ISUP-SIP/Basic call/ Sending of the	ISUP-SIP/Basic call/ Sending of the INVITE message							
SIP selection criteria									
ISUP selection criteria									
Test purpose	Ensure that the SUT is mapping the Called Party address information contained in the Called Party Number parameter of the IAM:  to the addr-spec component of the <b>To header field</b> which shall include the "user=phone" URI parameter if the To header field contains a sip: URI.								
SIP parameter values	INVITE: To: sip:; user=phone			•					
ISUP parameter values									
Comments	ISUP/BICC	SU	Т	SIP-I					
	IAM →		<b>→</b>	INVITE(IAM)					
	ACM ←		+	180 Ringing(ACM)					
	ANM ←		<b>+</b>	200 OK INVITE(ANM)					
	→ ACK								
		Convers	sation						
	REL →		<b>→</b>	BYE(REL)					
	RLC +		+	200 OK BYE(RLC)					

TP301030	SIP reference: RFC 3261 [4] Q.1				ISUP reference: 12.5 [1], clause 7.1.2			
TSS reference	ISUP-SIP/Basic call/ Sending of the INVITE message							
SIP selection criteria	NOT PICS 1/9		_					
ISUP selection criteria								
Test purpose	Ensure that the SUT is mapping the Called Party address information contained in the Called Party Number parameter of the IAM and the and the followed SAM:  • to the addr-spec component of the <b>To header field.</b>							
SIP parameter	INVITE: To:							
values								
ISUP parameter								
values								
Comments	ISUP/BICC		SUT		SIP-I			
	IAM	<b>→</b>						
	SAM	<b>→</b>						
	SAM	<b>→</b>		<b>→</b>	INVITE(IAM)			
	ACM	<del>-</del>		+	180 Ringing(ACM)			
	ANM	<del>-</del>		+	200 OK INVITE(ANM)			
	→ ACK							
		Co	onversation					
	REL	<b>→</b>		<b>→</b>	BYE(REL)			
	RLC	+		+	200 OK BYE(RLC)			

TP301031	SIP reference: RFC 3261 [4		ISUP reference: 12.5 [1], clause 7.1.2				
TSS reference	ISUP-SIP/Basic call/ Sending of the	INVITE m	essage				
SIP selection	NOT PICS 1/9						
criteria							
ISUP selection criteria							
Test purpose	Ensure that the SUT is mapping in the Called Party Number parameter contained in the Called Party address information of the IAM and followed SAM:  to the addr-spec component of the <b>To header field</b> which shall include the "user=phone" URI parameter if the To header field contains a sip: URI.						
SIP parameter values	INVITE: To: sip:; user=phone			·			
ISUP parameter values							
Comments	ISUP/BICC	SU	Т	SIP-I			
	IAM →						
	SAM →						
	SAM →		<b>→</b>	INVITE(IAM)			
	ACM ←		+	180 Ringing(ACM)			
	ANM ←		+	200 OK INVITE(ANM)			
			<b>→</b>	ACK			
		Convers	sation				
	REL →		<b>→</b>	BYE(REL)			
	RLC ←		+	200 OK BYE(RLC)			

TP301032	SIP reference: RFC 3261 [4]				SUP reference: 12.5 [1], clause 7.1.4		
TSS reference	ISUP-SIP/Basic call/Send	ing of the Initia	I Address Me	ssage	(IAM)		
SIP selection criteria				_			
ISUP selection criteria	PICS 4/3						
Test purpose		The O-IWU acting as an independent exchange shall perform the normal BICC/ISUP Hop Counter procedure as it constructs the outgoing encapsulated IAM.					
SIP parameter values							
ISUP parameter							
values							
Comments	ISUP/BICC		SUT		SIP-I		
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)		
	ACM	+		+	180 Ringing(ACM)		
	ANM	<b>←</b>		+	200 OK INVITE(ANM)		
				<b>→</b>	ACK		
		Co	onversation				
	REL	<b>→</b>		<b>→</b>	BYE(REL)		
	RLC	+	·	+	200 OK BYE(RLC)		

TP301033	SIP reference: RF	C 3261 [4]				SUP reference: I2.5 [1], clause 7.1.2			
TSS reference	ISUP-SIP/Basic call/ Send	ding of the I	NVITE me	essage					
SIP selection criteria	PICS 1/9								
ISUP selection criteria	PICS 1/8	PICS 1/8							
SIP parameter values	Ensure that the SUT is mapping the Called Party address information contained in the Called Party Number parameter, Nature of address = "International number" of the IAM to the addr-spec component of the To header field in the INVITE message.  The format of the To header field is "+CC+NDC+SN":  the forward address information is derived from the user info component of the INVITE Request-URI.  INVITE: To:								
ISUP parameter values									
Comments	ISUP/BICC		SU	Γ		SIP-I			
	IAM	<b>→</b>			<b>→</b>	INVITE(IAM)			
	ACM	+			+	180 Ringing(ACM)			
	ANM	+			+	200 OK INVITE(ANM)			
			-	•	<b>→</b>	ACK			
			Convers	ation					
	REL	<b>→</b>			<b>→</b>	BYE(REL)			
	RLC								

TP301034	SIP reference: RFC 3	261 [4]		ISUP reference: 12.5 [1], clause 7.1.2			
TSS reference	ISUP-SIP/Basic call/ Sending	of the INVITE n	nessage				
SIP selection criteria	PICS 1/9						
ISUP selection criteria	NOT PICS 1/8						
Test purpose	Ensure that the SUT is mapping the Called Party address information contained in the Called Party Number parameter, Nature of address = "National (significant) number" of the IAM:  • to the addr-spec component of the To header field in the INVITE message;  • the format of the To header field is "+CC+NDC+SN";  • the forward address information is derived from the user info component of the INVITE Request-URI.						
SIP parameter values	INVITE: To:						
ISUP parameter values							
Comments	ISUP/BICC	SI	JT	SIP-I			
	IAM	<b>→</b>	→	INVITE(IAM)			
	ACM	+	+	180 Ringing(ACM)			
	ANM	+	+	200 OK INVITE(ANM)			
			→	ACK			
		Convei	sation				
	REL	<b>→</b>	<b>→</b>	BYE(REL)			
	RLC	+	+	200 OK BYE(RLC)			

TP301035	SIP reference: RFC 3261 [4	1]		ISUP reference: 12.5 [1], clause 7.1.2				
TSS reference	ISUP-SIP/Basic call/ Sending of the	ISUP-SIP/Basic call/ Sending of the INVITE message						
SIP selection	PICS 1/9							
criteria								
ISUP selection	PICS 1/8							
criteria								
Test purpose	Ensure that the SUT is mapping the Called Party address information contained in the Called Party Number parameter, <b>Nature of address = "International number"</b> of the IAM and the and the followed SAM:  to the addr-spec component of the <b>To header field</b> ;  the format of the To header field is "+CC+NDC+SN";  the forward address information is derived from the user info component of the INVITE Request-URI.							
SIP parameter values	INVITE: To:							
ISUP parameter values								
Comments	ISUP/BICC	SL	JT	SIP-I				
	IAM →							
	SAM →							
	SAM →		→	INVITE(IAM)				
	ACM ←		<b>+</b>	180 Ringing(ACM)				
	ANM ←		<b>+</b>	200 OK INVITE(ANM)				
			→	ACK				
		Conver	sation					
	REL →		→	BYE(REL)				
	RLC ←		+	200 OK BYE(RLC)				

TP301036	SIP reference: RFC 3261 [		ISUP reference: 12.5 [1], clause 7.1.2				
TSS reference	ISUP-SIP/Basic call/ Sending of the INVITE message						
SIP selection	PICS 1/9						
criteria							
ISUP selection	NOT PICS 1/8						
criteria							
Test purpose	Ensure that the SUT is mapping the Called Party address information contained in the Called Party Number parameter, Nature of address = "National (significant) number" of the IAM and the followed SAM:  to the addr-spec component of the To header field; the format of the To header field is "+CC+NDC+SN"; the forward address information is derived from the user info component of the INVITE Request-URI.						
SIP parameter values	INVITE: To:						
ISUP parameter values							
Comments	ISUP/BICC	SL	JT	SIP-I			
	IAM →						
	SAM -						
	SAM →		→	INVITE(IAM)			
	ACM ←		+	180 Ringing(ACM)			
	ANM ←		<b>+</b>	200 OK INVITE(ANM)			
			→	ACK			
		Conver	sation				
	REL →		→	BYE(REL)			
	RLC ←		+	200 OK BYE(RLC)			

# 5.2.2.2 Receipt of the SAM message after INVITE has been send

TP302001	SIP reference:	RFC 3261 [4]			ISUP reference: 912.5 [1], clause 7.2
TSS reference	ISUP-SIP/Basic call/Re	ceint of SAM aft	er INVITE ha		
SIP selection criteria	PICS 3/1	ooipt of or tivi and	or iivvii L iid	0 00011 0	one.
ISUP selection criteria					
Test purpose	Ensure if the SUT is su SAMs received after the				he SIP network, subsequent
SIP parameter values					
ISUP parameter values	SAM; subsequent nun	nber (PIXIT)			
Comments	ISUP/BICC		SUT		SIP-I
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)
	SAM	<b>→</b>			
	ACM	+		+	180 Ringing(ACM)
	ANM	+		+	200 OK INVITE(ANM)
				→	ACK
		(	Conversation	•	
	REL	<b>→</b>		<b>→</b>	BYE(REL)
	RLC	+		+	200 OK BYE(RLC)

TP302002	SIP reference: RFC 3261 [4]	SUP reference:  2.5 [1], clause 7.2.1					
TSS reference	ISUP-SIP/Basic call/Receipt of SAM aft	ISUP-SIP/Basic call/Receipt of SAM after invite has been sent					
SIP selection	PICS 3/2			00			
criteria							
ISUP selection	PICS 1/5						
criteria							
Test purpose	Ensure that the SUT in Idle state, on receipt of an IAM message containing the Continuity Check indicator in the Nature of Connection Indicators parameter which is set to indicate "continuity check not required".  sends a INVITE message.  On receipt of a SAM from the ISUP the SUT shall:  1) Stop timer TOIW3 (if it is running);  2) TOIW2 shall be restarted and the SUT shall invoke the following procedures:  a) the Request-URI and the To header field of the new INVITE shall contain all digits received so far for this call;  b) a new INVITE with the same Call-ID and From header (including tag) as the previous INVITE is sent;  c) the new INVITE shall contain a new SDP offer. The O-IWU may re-use any resources that have already been reserved for this call. This re-use of existing reserved resources shall be reflected within the precondition attributes for the SDP parameters in question;  d) all other contents of the new INVITE are interworked from the parameters of the original IAM.						
SIP parameter							
values							
ISUP parameter							
values Comments	ISUP/BICC	SL	IT		SIP-I		
Comments	IAM -	30	) [	<b>→</b>	INVITE 1 (IAM)		
	SAM -			→	INVITE 1 (IAM)		
	JAW 2			<del>-</del>	484 Address Incomplete (1)		
				<b>→</b>	ACK		
	SAM →			<b>→</b>	INVITE 3 (IAM)		
	2			<del>′</del>	484 Address Incomplete (2)		
				<u>`</u>	ACK		
	ACM <b>←</b>			+	180 Ringing (3) (ACM)		
	ANM			+	200 OK INVITE (3) (ANM)		
				<b>→</b>	ACK		
		Conver	sation	•			
	REL →			<b>→</b>	BYE(REL)		
	RLC ←			+	200 OK BYE(RLC)		

TP302003	SIP reference: RFC 3261 [4] ISUP reference:						
	Q.1912.5 [1], clause 7.2.1						
TSS reference	ISUP-SIP/Basic call/Receipt of S	AM after invi	te has been sent				
SIP selection	PICS 3/2 AND NOT PICS 4/15						
criteria	2100 / 2 1112 2100 / 2						
ISUP selection criteria	PICS 1/5 AND PICS 4/2						
Test purpose	Ensure that the SUT in Idle state, on receipt of an IAM message containing the Continuity Check indicator in the Nature of Connection Indicators parameter which is set to "continuity check required on this circuit".  Sends the INVITE after the receipt of the Continuity message with the Continuity Indicators parameter "continuity check successful".  On receipt of a SAM from the ISUP the SUT shall:  1) Stop timer TOIW3 (if it is running);  2) TOIW2 shall be restarted and the SUT shall invoke the following procedures: a) the Request-URI and the To header field of the new INVITE shall contain all digits received so far for this call; b) a new INVITE with the same Call-ID and From header (including tag) as the previous INVITE is sent; c) the new INVITE shall contain a new SDP offer. The O-IWU may re-use any resources that have already been reserved for this call. This re-use of existing reserved resources shall be reflected within the precondition attributes for the SDP parameters in question; d) all other contents of the new INVITE are interworked from the parameters of the original IAM.						
SIP parameter values							
ISUP parameter values							
Comments	ISUP/BICC		SUT	SIP-I			
	IAM	<b>→</b>					
	SAM	<b>→</b>					
	COT	<b>→</b>	<b>→</b>	INVITE1(IAM)			
	SAM	<b>→</b>	<b>→</b>	INVITE2(IAM)			
			+	484 Address Incomplete (1)			
			<b>→</b>	ACK			
	ACM	+	+	180 Ringing (2) (ACM)			
	ANM	<b>←</b>	+	200 OK INVITE (2) (ANM)			
			<b>→</b>	ACK			
		Conv	ersation				
	REL	<b>→</b>	→	BYE(REL)			
	RLC	+	+	200 OK BYE(RLC)			

TP302004	SIP reference: RFC 326	1 [4]				SUP reference:
					Q.191	l2.5 [1], clause 7.2.1
TSS reference	ISUP-SIP/Basic call/Receipt of S	SAM af	fter invite	has bee	en sent	
SIP selection	PICS 3/2 AND NOT PICS 4/15					
criteria						
ISUP selection	PICS 1/5 AND PICS 4/2					
criteria						
Test purpose	Ensure that the SUT in Idle state, on receipt of an IAM message containing the Continuity Check indicator in the Nature of Connection Indicators parameter which is set to "continuity check performed on previous circuit".  Sends the INVITE after the receipt of the Continuity message with the Continuity Indicators parameter "continuity check successful".  On receipt of a SAM from the ISUP the SUT shall:  1) Stop timer TOIW3 (if it is running);  2) TOIW2 shall be restarted and the SUT shall invoke the following procedures:  a) the Request-URI and the To header field of the new INVITE shall contain all digits received so far for this call;  b) a new INVITE with the same Call-ID and From header (including tag) as the previous INVITE is sent;  c) the new INVITE shall contain a new SDP offer. The O-IWU may re-use any resources that have already been reserved for this call. This re-use of existing reserved resources shall be reflected within the precondition attributes for the SDP parameters in question;  d) all other contents of the new INVITE are interworked from the parameters of the original IAM.					
SIP parameter values						
ISUP parameter						
values						Torn :
Comments	ISUP/BICC		SI	JI		SIP-I
	IAM	<u>→</u>				
	SAM	<u>→</u>			+_	15.0 (15.5 d. (15.5 d.
	COT	<u>→</u>			<b>→</b>	INVITE 1 (IAM)
	SAM	<b>→</b>			<b>→</b>	INVITE 2 (IAM)
					<b>←</b>	484 Address Incomplete (1)
					<b>→</b>	ACK
	ACM	+			<b>←</b>	180 Ringing (2) (ACM)
	ANM	+			<b>←</b>	200 OK INVITE(ANM)
					→	ACK
			Conve	sation		
	REL	<b>→</b>			<b>→</b>	BYE(REL)
	RLC	+			+	200 OK BYE(RLC)

TP302005	SIP reference: RFC 3261 [4]	SIP reference: RFC 3261 [4] ISUP reference:				
	Q.1912.5 [1], clause 7.2.1					
TSS reference	ISUP-SIP/Basic call/Receipt of SAM after	er invite	e has been s	sent		
SIP selection	PICS 3/2 AND NOT PICS 4/15					
criteria						
ISUP selection	PICS 1/5 AND PICS 4/2					
criteria						
Test purpose	Ensure that the SUT in Idle state, on receipt of an IAM message containing the Continuity Check indicator in the Nature of Connection Indicators parameter which is set to "continuity check required on this circuit" sending of INVITE is delayed.  INVITE message shall not be sent after the Continuity message was received with the Continuity Indicators parameter set to "continuity check failed".  On receipt of a SAM from the ISUP the SUT shall:  1) Stop timer TOIW3 (if it is running); 2) TOIW2 shall be restarted.					
SIP parameter values						
ISUP parameter values						
Comments	ISUP/BICC	S	UT	SIP-I		
	IAM →					
	SAM →					
	COT →					

TP302006	SIP reference: RFC 3261 [4] ISUP reference: Q.1912.5 [1], clause 7.2.1						
TSS reference	ISUP-SIP/Basic call/Receipt of S	AM after inv	rite has been se	nt			
SIP selection criteria	PICS 3/2 AND NOT PICS 4/15						
ISUP selection criteria	PICS 1/5 AND PICS 4/2	PICS 1/5 AND PICS 4/2					
SIP parameter values ISUP parameter	Check indicator in the Nature of check required on this circuit" INVITE shall not be sent after the On receipt of a SAM from the ISI	Ensure that the SUT in Idle state, on receipt of an IAM message containing the Continuity Check indicator in the Nature of Connection Indicators parameter which is set to "continuity check required on this circuit" sending of INVITE is delayed. INVITE shall not be sent after the ISUP timer T8 expires. On receipt of a SAM from the ISUP the SUT shall: 1) Stop timer TOIW3 (if it is running); 2) TOIW2 shall be restarted.					
values							
Comments	ISUP/BICC		SUT	SIP-I			
	IAM	<b>→</b>					
	SAM	<b>→</b>					
			expires				
	REL	<del>-</del>					
	RLC	<b>→</b>					

TP302007	SIP refe	ence	: RFC 3261	[4]		ISUP reference:	
TSS reference	ICLID CID/Posio	Q.1912.5 [1], clause 7.2.1 sic call/Receipt of SAM after invite has been sent					
SIP selection	DICE 3/2 AND D	ICC 1	Eceipt of St	AIVI a	itei iiivit	e nas been sem	
criteria	PICS 3/2 AND P	PICS 3/2 AND PICS 4/5 AND PICS 4/15					
ISUP selection	PICS 1/5 AND P	ICS 4	/2				
criteria							
Test purpose	Check indicator check required Sends an INVITI Indicators param preconditions are On receipt of a S1) Stop timer T02) TOIW2 shall a) the Requireceived b) a new INVITE is c) the new that have resource in questi	ner contents of the new INVITE are interworked from the parameters of the					
SIP parameter			contains c	ligits	from the	e IAM and digits from SAM x and SAM y. The	
values	IAM is also conta	ainea					
ISUP parameter values							
Comments							
	ISUP/BICC		SUT		SIP-I		
	IAM	<b>→</b>		<b>→</b>	INVITE	1(IAM)	
	SAM x	<b>→</b>					
				<b>←</b>		ssion Progress without encapsulated ACM	
	COT	<b>→</b>		<b>→</b>	UPDA		
				+		( UPDATE	
	SAM y	<b>→</b>		<b>→</b>		2 (IAM and digits from SAM X + SAM Y)	
				+		ldress Incomplete (1)	
				<b>→</b>	ACK		
	ACM	+		+		nging2 (ACM)	
	ANM	+		<b>←</b>		(INVITE(ANM)	
				<b>→</b>	ACK		
			onversatio	n			
	REL	<b>→</b>		<b>→</b>	BYE(R		
	RLC	+		<b>←</b>	200 Ok	( BYE(RLC)	

TP302008	SIP refe	ence	: RFC 3261 [4]			eference: ], clause 7.2.1				
TSS reference	ISLIP-SIP/Basic	call/R	eceint of SAM a	after	vite has been sent	j, clause 7.2.1				
SIP selection criteria	PICS 3/2 AND P				nte nas been sent					
ISUP selection	PICS 1/5 AND P	ICS /	/2							
	FICS 1/5 AND F	1034	-12							
criteria Test purpose	Ensure that the SUT in Idle state, on receipt of an IAM message containing the Continuity Check indicator in the Nature of Connection Indicators parameter which is set or "continuity check performed on previous circuit".  Sends an INVITE message after the reception of the Continuity message with the Continuity Indicators parameter set to "continuity check successful" and after the requested preconditions are met in the SIP network.  On receipt of a SAM from the ISUP the SUT shall:  1) Stop timer TOIW3 (if it is running);  2) TOIW2 shall be restarted and the SUT shall invoke the following procedures:  a) the Request-URI and the To header field of the new INVITE shall contain all digits received so far for this call;  b) a new INVITE with the same Call-ID and From header (including tag) as the previous INVITE is sent;  c) the new INVITE shall contain a new SDP offer. The O-IWU may re-use any resources that have already been reserved for this call. This re-use of existing reserved									
SIP parameter	resources shall be reflected within the precondition attributes for the SDP parameters in question; d) all other contents of the new INVITE are interworked from the parameters of the original IAM.  INVITE2: Request URI contains digits from the IAM and digits from SAM x and SAM y. The									
values	IAM is also contained									
ISUP parameter	IT THE TO GLOSS CONTROLLING									
values										
Comments:	The O-IWU should initiate the precondition signalling procedure using the SDP Offer in the INVITE. The precondition signalling is concluded upon sending (within an SDP offer-answer exchange) the confirmation of a precondition being met. The SDP Offer or Answer carrying the confirmation of a precondition being met is sent when the conditions to send an INVITE message are satisfied.									
	ISUP/BICC	1	SUT		IP-I					
	IAM	<b>→</b>		<b>→</b>	IVITE1(IAM)					
	SAM x	<b>→</b>		<del>(</del>	83 Session Progress with	nout encapsulated ACM				
	COT	<b>→</b>		<u>₹</u>	83 Session Progress with PDATE	iout encapsulated ACIVI				
	001	7		<del>7</del>	00 OK UPDATE					
	SAM	<b>→</b>		<u>~</u>	NVITE2 (IAM and digits fr	om SAMV i SAMV				
	SAIVI	7								
		+		<u>←</u>	84 Address Incomplete ( <sup>.</sup> CK	1)				
	A CNA	1_								
	ACM	<del>-</del>		<del>-</del>	80 Ringing2 (ACM)					
	ANM	← 200 OK INVITE(ANM)								
		→ ACK								
	551	+_	Conversation		VE (DEL)					
	REL	<b>→</b>		<u>→</u>	YE(REL)					
	RLC	+		+	00 OK BYE(RLC)					

TP302009	SIP reference: RFC 3261 [4] ISUP reference:									
		[1], clause 7.2.1								
TSS reference	ISUP-SIP/Basic call/Receipt of SAI	M after invi	te has been s	ent						
SIP selection	PICS 3/2 AND NOT PICS 4/15									
criteria										
ISUP selection	PICS 1/4 AND NOT PICS 4/2									
criteria										
Test purpose	Ensure that the SUT in Idle state, on receipt of an IAM message indicating "COT to be expected".									
	The sending of the INVITE is delay									
	<ul> <li>Continuity message, with the oreceived;</li> </ul>	_	•		-					
	<ul> <li>Bearer Set-up indication - for t Type is "notification not require</li> </ul>			case w	here the incoming Connect					
	On receipt of a SAM from the BICC		shall:							
	1) Stop timer TOIW3 (if it is running)		all invoka tha	fallowise	a procedures:					
	<ul><li>2) TOIW2 shall be restarted and the a) the Request-URI and the T</li></ul>									
	received so far for this call;		ield of the flew	VIINVIIL	Silali Contain all digits					
	· · · · · · · · · · · · · · · · · · ·		and From head	der (incl	uding tag) as the previous					
	<ul> <li>b) a new INVITE with the same Call-ID and From header (including tag) as the previous INVITE is sent;</li> <li>c) the new INVITE shall contain a new SDP offer. The O-IWU may re-use any resources</li> </ul>									
	that have already been reserved for this call. This re-use of existing reserved									
	resources shall be reflected within the precondition attributes for the SDP parameters									
	in question;									
	d) all other contents of the new INVITE are interworked from the parameters of the									
	original IAM.									
SIP parameter										
values										
ISUP parameter										
values				1						
Comments	ISUP/BICC		SUT	SIF	P-I					
	IAM -									
	SAM x									
	COT -				VITE(IAM)					
	SAM y				VITE(IAM)					
	ACM				0 Ringing(ACM)					
	ANM	•			0 OK INVITE(ANM)					
				→ AC	CK					
			ersation							
	REL -				E(REL)					
	RLC •	-		← 20	0 OK BYE(RLC)					

TP302010	SIP reference: RFC 3261 [4	SUP reference:								
		<u>≀.191</u> :	912.5 [1], clause 7.2.1							
TSS reference	ISUP-SIP/Basic call/Receipt of SAM after invite has been sent									
SIP selection criteria	PICS 3/2 AND NOT PICS 4/15									
ISUP selection	PICS 1/4 AND PICS 4/2									
criteria										
Test purpose	Ensure that the SUT in Idle state, on receipt of an IAM message indicating "COT to be expected".									
	The sending of the INVITE is delayed until all the following conditions are satisfied:									
	<ul> <li>Continuity message, with the C received;</li> </ul>	ontinuity Ir	ndicators para	amet	er set to " <b>continuity</b> " shall be					
	APM with Action indicator set to or without bearer control tunnel									
	required", and for the fast set-u			.g • •	The second secon					
	On receipt of a SAM from the BICC									
	1) Stop timer TOIW3 (if it is running									
	2) TOIW2 shall be restarted and th									
	a) the Request-URI and the To	header fie	eld of the nev	w IN∖	/ITE shall contain all digits					
	received so far for this call; b) a new INVITE with the same Call-ID and From header (including tag) as the previous INVITE is sent; c) the new INVITE shall contain a new SDP offer. The O-IWU may re-use any resources									
	that have already been reserved for this call. This re-use of existing reserved									
					outes for the SDP parameters					
	in question;									
	d) all other contents of the new INVITE are interworked from the parameters of the									
	original IAM.									
SIP parameter										
values										
ISUP parameter										
values	LOUID/DIGO		<del>.</del>		loib i					
Comments	ISUP/BICC		SUT		SIP-I					
	IAM →									
	SAM x →			_	INIVITE (IANA)					
	COT → SAM v →				INVITE(IAM) INVITE(IAM)					
	SAM y ACM ←				180 Ringing(ACM)					
	ANM			<del>-</del>	200 OK INVITE(ANM)					
	AINIVI			<u>▼</u>	ACK					
		Conv	ersation		NOIX					
	REL →			<b>→</b>	BYE(REL)					
	RLC +			<del></del>	200 OK BYE(RLC)					
	INLO		L		ZUU ON BTE(NLU)					

TP302011	SIP reference: RFC 3261 [4] ISUP reference:									
						12.5 [1], clause 7.2.1				
TSS reference	ISUP-SIP/Basic call/Receipt of SAM after invite has been sent									
SIP selection	PICS 3/2 AND NOT PICS 4/15									
criteria										
ISUP selection criteria	PICS 1/4 AND PICS 4/2									
Test purpose	Ensure that the SUT in Idle state, on receipt of an IAM message indicating "COT to be									
rest purpose	expected".									
	The sending of the INVITE dela	vs until	all the fo	llowina co	onditio	ons are satisfied:				
						ter set to "continuity" shall be				
	received;									
	Bearer Set-up Connect indi     On receipt of a SAM from the Bl				beare	r set-up case was received.				
	Stop timer TOIW3 (if it is run		301 316	ali.						
	2) TOIW2 shall be restarted an		UT shall	invoke the	e follo	wing procedures:				
	a) the Request-URI and the									
	received so far for this c					= onan ooman an algilo				
	b) a new INVITE with the s	same Ca	all-ID and	from he	ader	(including tag) as the previous				
	INVITE is sent;									
	c) the new INVITE shall contain a new SDP offer. The O-IWU may re-use any resources									
	that have already been reserved for this call. This re-use of existing reserved									
	resources shall be reflected within the precondition attributes for the SDP parameters									
	in question;									
	d) all other contents of the new INVITE are interworked from the parameters of the									
oin .	original IAM.									
SIP parameter										
values										
ISUP parameter values										
Comments	ISUP/BICC		SL	JT		SIP-I				
	IAM	<b>→</b>								
	SAM x	→								
	COT	<b>→</b>			<b>→</b>	INVITE(IAM)				
	SAM y	<b>→</b>			<b>→</b>	INVITE(IAM)				
	ACM	+			+	180 Ringing(ACM)				
	ANM	+			+	200 OK INVITE(ANM)				
					<b>→</b>	ACK				
			Conver	sation						
	REL	<b>→</b>			<b>→</b>	BYE(REL)				
	RLC	<b>←</b>			+	200 OK BYE(RLC)				

SIP reference: RFC 326	1 [4]			SUP reference:					
				2.5 [1], clause 7.2.1					
PICS 3/2 AND NOT PICS 4/15									
PICS 1/4 AND PICS 4/2									
<ul> <li>Ensure that the SUT in Idle state, on receipt of an IAM message indicating "COT to be expected"</li> <li>The sending of the INVITE delays until all the following conditions are satisfied:</li> <li>Continuity message, with the Continuity Indicators parameter set to "continuity" shall be received;</li> <li>BNC set-up success indication for cases using bearer control tunnelling was received On receipt of a SAM from the BICC the SUT shall:</li> <li>Stop timer TOIW3 (if it is running);</li> <li>TOIW2 shall be restarted and the SUT shall invoke the following procedures: <ul> <li>a) the Request-URI and the To header field of the new INVITE shall contain all digits received so far for this call;</li> <li>b) a new INVITE with the same Call-ID and From header (including tag) as the previous INVITE is sent;</li> <li>c) the new INVITE shall contain a new SDP offer. The O-IWU may re-use any resources that have already been reserved for this call. This re-use of existing reserved resources shall be reflected within the precondition attributes for the SDP parameters in question;</li> <li>d) all other contents of the new INVITE are interworked from the parameters of the</li> </ul> </li> </ul>									
ISUP/BICC		SUT		SIP-I					
IAM	<b>→</b>								
SAM x	<b>→</b>								
COT	<b>→</b>		<b>→</b>	INVITE(IAM)					
SAM y	<b>→</b>		<b>→</b>	INVITE(IAM)					
ACM	+		+	180 Ringing(ACM)					
ANM	+		+	200 OK INVITE(ANM)					
			<b>→</b>	ACK					
	C	onversation							
REL			<b>→</b>	BYE(REL)					
				200 OK BYE(RLC)					
	ISUP-SIP/Basic call/Receipt of S PICS 3/2 AND NOT PICS 4/15  PICS 1/4 AND PICS 4/2  Ensure that the SUT in Idle state expected" The sending of the INVITE delay • Continuity message, with the received; • BNC set-up success indicated on receipt of a SAM from the BIO Stop timer TOIW3 (if it is runival) TOIW2 shall be restarted and a) the Request-URI and the received so far for this case in the NVITE with the same involved by a new INVITE with the same involved shall be reflected in question; d) all other contents of the received so far for this case in question; d) all other contents of the resources shall be reflected in question; d) all other contents of the received so far for this case in question; d) all other contents of the resources shall be reflected in question; d) all other contents of the resources shall be reflected in question; d) all other contents of the resources shall be reflected in question; d) all other contents of the resources shall be reflected in question; d) all other contents of the resources shall be reflected in question; d) all other contents of the resources shall be reflected in question; d) all other contents of the resources shall be reflected in question; d) all other contents of the resources shall be reflected in question; d) all other contents of the resources shall be reflected in question; d) all other contents of the resources shall be reflected in question; d) all other contents of the resources shall be reflected in question; d) all other contents of the resources shall be reflected in question;	PICS 3/2 AND NOT PICS 4/15  PICS 1/4 AND PICS 4/2  Ensure that the SUT in Idle state, on receipexpected"  The sending of the INVITE delays until all to Continuity message, with the Continuity received;  BNC set-up success indication for cast On receipt of a SAM from the BICC the SU 1) Stop timer TOIW3 (if it is running);  2) TOIW2 shall be restarted and the SUT and the Request-URI and the To header received so far for this call;  b) a new INVITE with the same Call-II INVITE is sent;  c) the new INVITE shall contain a new that have already been reserved for resources shall be reflected within an in question;  d) all other contents of the new INVITE original IAM.  ISUP/BICC  IAM  SAM x  COT  SAM y  ACM  ANM  CCC  REL	ISUP-SIP/Basic call/Receipt of SAM after invite has been PICS 3/2 AND NOT PICS 4/15  PICS 1/4 AND PICS 4/2  Ensure that the SUT in Idle state, on receipt of an IAM mexpected"  The sending of the INVITE delays until all the following conceived;  BNC set-up success indication for cases using beard On receipt of a SAM from the BICC the SUT shall:  Stop timer TOIW3 (if it is running);  TOIW2 shall be restarted and the SUT shall invoke the alignment of the same Call-ID and From the INVITE is sent;  and the Request-URI and the To header field of the received so far for this call;  and invite is sent;  by a new INVITE with the same Call-ID and From the INVITE is sent;  c) the new INVITE shall contain a new SDP offer. The that have already been reserved for this call. This resources shall be reflected within the precondition in question;  d) all other contents of the new INVITE are interword original IAM.  ISUP/BICC  SUT  SAM x  COT  SAM y  ACM  ANM  Conversation  Conversation	ISUP-SIP/Basic call/Receipt of SAM after invite has been sent					

TP302013	SIP refe	SIP reference: RFC 3261 [4] ISUP reference: Q.1912.5 [1], clause 7.2.1								
TSS reference	ISUP-SIP/Basic call/Receipt of SAM after invite has been sent									
SIP selection	PICS 3/2 AND PICS 4/5 AND PICS 4/15									
criteria										
ISUP selection	PICS 1/4 AND PICS 4/2									
criteria										
Test purpose	Ensure that the	SUT	in Idle state, on	rece	ipt of	an IAM message indicating "COT to be				
	expected".									
			essage. The eve							
	<ul> <li>Continuity message, with the Continuity Indicators parameter set to "continuity" was received;</li> </ul>									
	<ul> <li>Bearer Set-up indication - for the forward bearer set-up case where the incoming Connect Type is "notification not required" was received;</li> </ul>									
			ccessful completi							
	On receipt of a	SAM	from the BICC th	ne SI						
			3 (if it is running)							
						I invoke the following procedures:				
				nead	ler fie	ld of the new INVITE shall contain all digits				
			ar for this call;	C-11	ID oo	d From hooder (including too) on the province				
	INVITE			Call-	·ID an	d From header (including tag) as the previous				
				a ne	w SE	P offer. The O-IWU may re-use any resources				
		that have already been reserved for this call. This re-use of existing reserved resources shall be reflected within the precondition attributes for the SDP parameters								
	in question;									
	d) all other contents of the new INVITE are interworked from the parameters of the									
	original									
SIP parameter				fror	m the	IAM and digits from SAM x and SAM y. The				
values	IAM is also con	IAM is also contained								
ISUP parameter values										
Comments	The O-IWU should initiate the precondition signalling procedure using the SDP Offer in the									
	INVITE. The precondition signalling is concluded upon sending (within an SDP offer-answer									
						eing met. The SDP Offer or Answer carrying				
						sent when the conditions to send a INVITE				
	message are sa	atisfie								
	ISUP/BICC		SUT		SIP-					
	IAM	<b>→</b>		<b>→</b>	INV	ITE1(IAM)				
	SAM x	<b>→</b>								
		<u> </u>		<b>←</b>		Session Progress without encapsulated ACM				
	СОТ	<b>→</b>		<b>→</b>		DATE				
	2111	Ļ		<u> </u>		OK UPDATE				
	SAM y	<b>→</b>		<u>→</u>		TE2 (IAM and digits from SAM X + SAM Y)				
				<u>+</u>		Address Incomplete (1)				
	A C N 4	_		<del>}</del>	ACK					
	ACM	+		<del>(</del>		Ringing2(ACM)				
	ANM	+		<u>+</u>		OK INVITE(ANM)				
			Convergation	<b>→</b>	ACK	A.				
	DEI	_	Conversation		DVF	(DEL)				
	REL	<b>→</b>		<u>→</u>		(REL)				
	RLC	+		+	200	OK BYE(RLC)				

TP302014	SIP refere	ence	: RFC 3261 [4]			ISUP reference: Q.1912.5 [1], clause 7.2.1					
TSS reference	ISUP-SIP/Basic call/Receipt of SAM after invite has been sent										
SIP selection	PICS 3/2 AND PICS 4/5 AND PICS 4/15										
criteria											
ISUP selection	PICS 1/4 AND PICS 4/2										
criteria											
Test purpose		UT ii	n Idle state, on	rece	ipt of a	an IAM message indicating "COT to be					
	expected".	me	ssage The eve	nte:							
	Sends the INVITE message. The events:  Continuity message, with the Continuity Indicators parameter set to "continuity" was received:										
	<ul> <li>APM with Action indicator set to "Connected" - for the forward bearer set-up cases (with, or without bearer control tunnelling) where the incoming Connect Type is "notification</li> </ul>										
	required", an	required", and for the fast set-up (backward) case; are indicating the successful completion of bearer set-up.									
	On receipt of a SA  1) Stop timer TO				UT sh	all:					
	2) TOIW2 shall b	e re	started and the	SUT		invoke the following procedures: d of the new INVITE shall contain all digits					
	received	so fa	r for this call;			·					
				Call-	ID an	d From header (including tag) as the previous					
	INVITE is										
						P offer. The O-IWU may re-use any resources					
	that have already been reserved for this call. This re-use of existing reserved										
	resources shall be reflected within the precondition attributes for the SDP parameters										
		in question; d) all other contents of the new INVITE are interworked from the parameters of the									
		original IAM.									
SIP parameter			L contains digits	fror	m the	IAM and digits from SAM x and SAM y. The					
values		IAM is also contained									
ISUP parameter											
values											
Comments	The O-IWU should initiate the precondition signalling procedure using the SDP Offer in the										
						d upon sending (within an SDP offer-answer					
						eing met. The SDP Offer or Answer carrying					
				ng n	net is s	sent when the conditions to send a INVITE					
	message are sati	sfied									
	ISUP/BICC		SUT		SIP-						
	IAM	<b>→</b>		<b>→</b>	INVI	TE1(IAM)					
	SAM	<b>→</b>									
				+		Session Progress without encapsulated ACM					
	COT	<b>→</b>		<u>→</u>	UPD						
				<del>-</del>		OK UPDATE					
	SAM	<b>→</b>		<u>→</u>		TE2 (IAM with digits from SAM X + SAM Y)					
				<u>+</u>		Address Incomplete (1)					
	1011			<u>→</u>	ACK						
	ACM	+		<del>(</del>		Ringing2(ACM)					
	ANM	+		<u> </u>		OK INVITE(ANM)					
				<b>→</b>	ACK						
	DEL	_	Conversation		D) / E	(DEL)					
	REL	<u>→</u>		<u>→</u>		(REL)					
	RLC	+		+	200	OK BYE(RLC)					

TP302015	SIP refer	ence	: RFC 3261 [4]		ISUP reference: Q.1912.5 [1], clause 7.2.1
TSS reference					er invite has been sent
SIP selection	PICS 3/2 AND PI	CS 4	/5 AND PICS 4	/15	5
criteria					
ISUP selection	PICS 1/4 AND PI	CS 4	/2		
criteria					
Test purpose	<ul> <li>Ensure that the SUT in Idle state, on receipt of an IAM message indicating "COT to be expected".</li> <li>Sends the INVITE message. The events:</li> <li>Continuity message, with the Continuity Indicators parameter set to "continuity" was received:</li> <li>Bearer Set-up Connect indication - for the backward bearer set-up case was received. are indicating the successful completion of bearer set-up.</li> <li>On receipt of a SAM from the BICC the SUT shall:</li> <li>Stop timer TOIW3 (if it is running);</li> <li>TOIW2 shall be restarted and the SUT shall invoke the following procedures: <ul> <li>a) the Request-URI and the To header field of the new INVITE shall contain all digits received so far for this call;</li> <li>b) a new INVITE with the same Call-ID and From header (including tag) as the previous INVITE is sent;</li> <li>c) the new INVITE shall contain a new SDP offer. The O-IWU may re-use any resources that have already been reserved for this call. This re-use of existing reserved resources shall be reflected within the precondition attributes for the SDP parameters in question;</li> <li>d) all other contents of the new INVITE are interworked from the parameters of the</li> </ul> </li> </ul>				
	original IA				·
SIP parameter			I contains digits	s fror	rom the IAM and digits from SAM x and SAM y. The
values	IAM is also conta	ined			
ISUP parameter					
values Comments	The O IV/III show	ما نم: ۱	iata tha nraaan	ditio	ion signalling procedure using the SDP Offer in the
Comments	INVITE. The pred exchange) the co the confirmation of message are sati	ondit nfirm of a p	tion signalling is pation of a precorecondition bei	s con ondit	oncluded upon sending (within an SDP offer-answer dition being met. The SDP Offer or Answer carrying met is sent when the conditions to send a INVITE
	ISUP/BICC		SUT		SIP-I
	IAM	<b>→</b>		<b>→</b>	INVITE1(IAM)
	SAM	<b>→</b>			1000 1000
				+	3
	СОТ	<b>→</b>		<b>→</b>	
				<b>←</b>	
	SAM	<b>→</b>		<b>→</b>	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
				<b>←</b>	
	4.014	→ ACK			
	ACM	← 180 Ringing2(ACM)			
	ANM	+		<b>+</b>	\ /
			0	<b>→</b>	ACK
	DEI	_	Conversation		)
	REL	<b>→</b>		<b>→</b>	
	RLC	<b>←</b>		<b>←</b>	- 200 OK BYE(RLC)

TP302016	SIP refer	ence	: RFC 3261 [4]			ISUP reference: Q.1912.5 [1], clause 7.2.1
TSS reference	ISUP-SIP/Basic of	all/R	eceipt of SAM	after	invite h	nas been sent
SIP selection	PICS 3/2 AND PI	CS 4	/5 AND PICS 4	/15		
criteria						
ISUP selection	PICS 1/4 AND PI	CS 4	/2			
criteria						
Test purpose	<ul> <li>Ensure that the SUT in Idle state, on receipt of an IAM message containing indicating "COT to be expected".</li> <li>Sends the INVITE message. The events:</li> <li>Continuity message, with the Continuity Indicators parameter set to "continuity" was received;</li> <li>BNC set-up success indication for cases using bearer control tunnelling was received. are indicating the successful completion of bearer set-up,</li> <li>On receipt of a SAM from the BICC/ISUP the SUT shall:</li> <li>Stop timer TOIW3 (if it is running);</li> <li>TOIW2 shall be restarted and the SUT shall invoke the following procedures: <ul> <li>a) the Request-URI and the To header field of the new INVITE shall contain all digits received so far for this call;</li> <li>b) a new INVITE with the same Call-ID and From header (including tag) as the previous INVITE is sent;</li> <li>c) the new INVITE shall contain a new SDP offer. The O-IWU may re-use any resources that have already been reserved for this call. This re-use of existing reserved resources shall be reflected within the precondition attributes for the SDP parameters in question;</li> <li>d) all other contents of the new INVITE are interworked from the parameters of the</li> </ul> </li> </ul>					
OID	original IA					
SIP parameter			I contains digits	stror	m the IA	AM and digits from SAM x and SAM y. The
values	IAM is also conta	inea				
ISUP parameter values						
Comments	The O-IWI I shou	d init	iate the precon	ditio	n siana	lling procedure using the SDP Offer in the
	INVITE. The pred exchange) the co the confirmation of message are sati	ondit nfirm of a p	tion signalling is pation of a preco precondition bei	s cor ondit	ncluded tion bein net is se	upon sending (within an SDP offer-answering met. The SDP Offer or Answer carrying ent when the conditions to send a INVITE
	ISUP/BICC		SUT	_	SIP-I	E 4 ((AAA))
	IAM	<b>→</b>		<b>→</b>	INVIT	E1(IAM)
	SAM	<b>→</b>			100.0	
	007	_		+		ession Progress without encapsulated ACM
	СОТ	<b>→</b>		<b>→</b>	UPDA	
				+		K UPDATE
	SAM	<b>→</b>		<b>→</b>		E2 (IAM with digits from SAM X + SAM Y)
				<b>←</b>		ddress Incomplete (1)
	4.014	→ ACK				: : 0/4010
	ACM	+		+		inging2(ACM)
	ANM	+		+		OK INVITE(ANM)
				<b>→</b>	ACK	
	DEL	_	Conversation	-	D) (= (=	
	REL	<b>→</b>		<b>→</b>	BYE(F	
	RLC	<b>←</b>		<b>←</b>	200 O	OK BYE(RLC)

TP302017	SIP reference: RFC 3261	[4]		_	SUP reference: 2.5 [1], clause 7.2.1	
TSS reference	ISUP-SIP/Basic call/Receipt of SA	AM after	nvite has beer	n sent		
SIP selection criteria	PICS 3/2					
ISUP selection criteria	PICS 1/4					
Test purpose	The SUT in Idle state, on receipt of an IAM message sends a INVITE message.  On receipt of a SAM from the BICC/ISUP the SUT shall:  1) Stop timer TOIW3 (if it is running);  2) TOIW2 shall be restarted and the SUT shall invoke the following procedures:  Ensure that if timer TOIW2 has expired, subsequent SAMs received after the SUT has sent the INVITE are ignored.					
SIP parameter values						
ISUP parameter values						
Comments	ISUP/BICC		SUT		SIP-I	
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)	
	SAM	<b>→</b>		<b>→</b>	INVITE(IAM)	
		T,	<sub>oiw2</sub> expired			
	SAM	<b>→</b>				
	ACM	<b>←</b>		+	180 Ringing(ACM)	
	ANM	+		+	200 OK INVITE(ANM)	
				<b>→</b>	ACK	
			onversation			
	REL	<b>→</b>		→	BYE(REL)	
	RLC	<del>(</del>		+	200 OK BYE(RLC)	

TP302018	SIP reference: RFC 3261 [4]	-	SUP reference: 2.5 [1], clause 7.2.1		
TSS reference	ISUP-SIP/Basic call/Receipt of SAM after in	ite has been sent			
SIP selection	PICS 3/1				
criteria					
ISUP selection	PICS 3/8				
criteria					
Test purpose	<ul> <li>The SUT in Idle state, on receipt of an IAM message.</li> <li>On receipt of a SAM from the BICC/ISUP the SUT shall:</li> <li>sends a INVITE message if the minimum number of digits for routing the call has been received in the IAM and the SAM;</li> <li>TOIW1 and TIOW2 shall be started and the SUT shall invoke the following procedures: Ensure that if timer TOIW2 has expired, subsequent SAMs received after the SUT has sent the INVITE are ignored.</li> </ul>				
SIP parameter					
values					
ISUP parameter					
values					
Comments	ISUP/BICC	SUT	SIP-I		
	IAM →				
	SAM →	→	INVITE(IAM)		
	T <sub>oiv</sub>	<sub>/2</sub> expired			
	SAM →				
	ACM ← 180 Ringing(ACM)				
	200 OK INVITE(ANM)				
		→	ACK		
	Cor	versation			
	REL →	→	BYE(REL)		
	RLC +	<b>+</b>	200 OK BYE(RLC)		

# 5.2.2.3 Sending of the ACM message

TP303001	SIP reference: RFC 3261 [4	i]	Q.19	SUP reference: 12.5 [1], clause 7.1, [i.12], clause 2.1.4.8			
TSS reference	ISUP-SIP /Basic call/Sending of the	ACM mes					
SIP selection	PICS 1/3						
criteria							
ISUP selection	PICS 4/9						
criteria							
Test purpose	Ensure that the SUT in Idle state, or			e containing the complete			
	called party number and the send						
	Sends the INVITE message to calle			ssage with:			
	the CPS indicator set to " no in						
	the Called party's category in	dicator se	et to "no indicatio	n(00)" or "ordinary subscriber			
	(01)" or "payphone (10)";		NID 1/41 II				
	the interworking indicator set						
	the ISUP indicator set to "ISUF						
OID	the ISDN access indicator set	to "ISDN_	_ACC_IND_VAL				
SIP parameter							
values	IAM. Colled north number: comple	to numbor					
ISUP parameter values	IAM; Called party number: comple ACM, CPS indicator no indication (						
values	Called party's category indicator:		ion(00) or ordina	ry cubecribor (01) or payabana			
	(10)	no muicai	ion(oo) or ordina	lly subscriber (01) or payprione			
	interworking indicator: INT_IND_\	AI (PIXIT	7				
	ISUP indicator: ISUP_IND_ID (PIX		,				
	ISDN access indicator ISDN_ACC		(PIXIT)				
Comments	ISUP/BICC		SÚT Í	SIP-I			
	IAM →		<b>→</b>	INVITE(IAM)			
	ACM(no indication)			,			
	CPG(Alerting)		+	180 Ringing(ACM)			
	ANM	\ 3/					
			<b>→</b>	ACK			
		Conv	ersation				
	REL →		<b>→</b>	BYE(REL)			
	RLC ←		+	200 OK BYE(RLC)			

TP303002	SIP reference: RFC 326		Q.	ISUP reference: 1.1912.5 [1], clause 7.1, 764 [i.12], clause 2.1.4.8		
TSS reference	ISUP-SIP /Basic call/ Sending of	the ACM m	essage			
SIP selection	PICS 1/3					
criteria						
ISUP selection criteria	PICS 4/9					
Test purpose	Ensure that the SUT in Idle state, on receipt of an IAM message containing the maximum number of digits used in the national numbering plan:  Sends the INVITE message to called user; Sends the ACM message with; the CPS indicator set to " no indication (00)"; the Called party's category indicator set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)"; the interworking indicator set to "INT_IND_VAL"; the ISUP indicator set to "ISUP_IND_ID"; the ISDN access indicator set to "ISDN_ACC_IND_VAL".					
SIP parameter values						
ISUP parameter values	IAM; Called party number: complete number ACM, Backward call indicator is set to the value in the encapsulated ACMCPS indicator no indication (00) Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone (10) interworking indicator: INT_IND_VAL (PIXIT) ISUP indicator: ISUP_IND_ID (PIXIT) ISDN access indicator ISDN_ACC_IND_VAL (PIXIT)					
Comments	ISUP/BICC		SUT	SIP-I		
	IAM	<b>→</b>		→ INVITE(IAM)		
	ACM(no indication)	<del>-</del>				
	CPG(Alerting)	<del>(</del>		← 180 Ringing(ACM)		
	ANM	<b>←</b>		€ 200 OK INVITE(ANM)		
				→ ACK		
			nversation			
	REL	<b>→</b>		→ BYE(REL)		
	RLC	<b>←</b>		← 200 OK BYE(RLC)		

TP303003	SIP reference: RFC 3261 [	4]	Q.19	SUP reference: 12.5 [1], clause 7.1, · [i.12], clause 2.1.4.8			
TSS reference	ISUP-SIP /Basic call/Sending of the	ACM mes	ssage				
SIP selection criteria	PICS 1/3						
ISUP selection criteria	PICS 4/9						
Test purpose	Ensure that the SUT in Idle state, on receipt of an IAM message containing the complete called party number where the end of address signalling is determined by analysis of the called party number to indicate that a sufficient number of digits has been received to route the call to the called party:  sends the INVITE message to called user; sends the ACM message with the CPS indicator set to "no indication (00)", the Called party's category indicator set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)", the interworking indicator set to "INT_IND_VAL", the ISUP indicator set to "ISUP_IND_ID", the ISDN access indicator set to "ISDN_ACC_IND_VAL".						
SIP parameter values							
ISUP parameter	IAM; Called party number: comple						
values	ACM, CPS indicator no indication (00)  Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone (10)  interworking indicator: INT_IND_VAL (PIXIT)  ISUP indicator: ISUP_IND_ID (PIXIT)  ISDN access indicator ISDN_ACC_IND_VAL (PIXIT)						
Comments	ISUP/BICC		SÚT	SIP-I			
	IAM -		<b>→</b>	INVITE(IAM)			
	ACM(no indication)						
		/ territine management					
	ANM ← 200 OK INVITE(ANM)						
			<b>→</b>	ACK			
		Conv	ersation				
	REL →		<b>→</b>	BYE(REL)			
	RLC +		+	200 OK BYE(RLC)			

TP303004	SIP reference: RFC 3261	[4]		ISUP reference:		
				lauses 7.1 1) d), 7.3.1, and 7.4		
TSS reference	ISUP-SIP /Basic call/Sending of t	he ACM mes	sage			
SIP selection	PICS 1/3					
criteria						
ISUP selection	NOT PICS 4/9					
criteria						
Test purpose	Ensure that the SUT in Idle state, on receipt of an IAM message containing the complete called party number where the end of address signalling is determined by the expiration timer T <sub>OIW1</sub> after the receipt of the latest address message:					
	<ul> <li>sends the ACM message with party's category indicator seems "payphone (10)", the interwork</li> </ul>					
SIP parameter						
values						
ISUP parameter	IAM; Called party number: comp		•			
values	ACM, CPS indicator no indication					
	Called party's category indicate	or: no indicat	ion(00) or ordina	ary subscriber (01) or payphone		
	(10)					
	interworking indicator: INT_INE		Γ)			
	ISUP indicator: ISUP_IND_ID (PIXIT)					
0	ISDN access indicator ISDN_AC			Tolbi		
Comments	ISUP/BICC		SUT	SIP-I		
	IAM	<b>→</b>				
	T <sub>OIW1</sub> expiry					
	/ to militario and only	<del>(</del>	<b>→</b>	INVITE(IAM)		
	G: G(: :::::::::g)	<del>(</del>	<b>←</b>	180 Ringing(ACM)		
	ANM ← 200 OK INVITE(AN					
			<b>→</b>	ACK		
			ersation			
		<b>→</b>	<b>→</b>	BYE(REL)		
	RLC	<b>←</b>	<b>←</b>	200 OK BYE(RLC)		

TP303005	SIP reference: RFC 326	1 [4]			Į:	SUP reference:
					12.5 [	1], clauses 7.1 and 7.3.1
TSS reference	ISUP-SIP /Basic call/Sending of	the AC	CM messag	ge		
SIP selection	PICS 1/3					
criteria						
ISUP selection	NOT PICS 4/9					
criteria						
Test purpose	Ensure that the SUT if overlap addressing is to be used toward the SIP network, on receipt of an IAM message containing the minimum number of digits required for routing the call has been received (start timer TOIW2 and invoke the appropriate outgoing SIP signalling procedure):  • sends an INVITE message to the called user and after the expiration of T <sub>OIW2</sub> ;  • sends the ACM message with the CPS indicator set to "no indication (00)", the Called party's category indicator set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)", the interworking indicator set to "INT_IND_VAL", the ISUP indicator set to "ISUP_IND_ID", the ISDN access indicator set to "ISDN_ACC_IND_VAL".					
SIP parameter	00.10 100					
values						
ISUP parameter	IAM; Called party number: com	plete	number			
values	ACM, CPS indicator no indication					
	(10) interworking indicator: INT_INI ISUP indicator: ISUP_IND_ID (I	Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone (10) interworking indicator: INT_IND_VAL (PIXIT) ISUP indicator: ISUP_IND_ID (PIXIT)				
0	ISDN access indicator ISDN_A	CC_IN			1	loip i
Comments	ISUP/BICC	_	SUT			SIP-I
	IAM	<b>→</b>				
	SAM	<b>→</b>				INIVITE (IANA)
	SAM	7	т -	vnin.	<b>→</b>	INVITE(IAM)
		T <sub>OIW2</sub> expiry				
	ACM(no indication)	+				
	CPG(Alerting)	+			+	180 Ringing(ACM)
	ANM	+			+	200 OK INVITE(ANM)
					<b>→</b>	ACK
			Convers	ation		
	REL	<b>→</b>			<b>→</b>	BYE(REL)
	RLC	<b>←</b>			<b>←</b>	200 OK BYE(RLC)

TP303006	SIP reference: RFC 3261	[4]		ISUP reference:		
			Q.1912.5 [1	], clauses 7.1 1) a) and 7.3.1		
TSS reference	ISUP-SIP /Basic call/Sending of t	he ACM mes	ssage			
SIP selection	PICS 1/3					
criteria						
ISUP selection	NOT PICS 4/9					
criteria						
Test purpose	Ensure that the SUT in Idle state,			ge containing the complete		
	called party number, on receipt		ging message.			
	<ul> <li>Sends the ACM message with</li> </ul>					
	<ul> <li>the CPS indicator set</li> </ul>					
				alue in the encapsulated ACM;		
	o the interworking indic					
	o the ISUP indicator se					
	o the ISDN access indi	cator set to t	he value in the	encapsulated ACM.		
SIP parameter						
values						
ISUP parameter	IAM; Called party number: com					
values	ACM, Backward call indicator is s					
Comments	ISUP/BICC		SUT	SIP-I		
	17 (17)	<b>→</b>	<b>→</b>	INVITE(IAM)		
	ACM	<b>←</b>	<b>←</b>	180 Ringing(ACM)		
	ANM ← 200 OK INVITE(ANM)					
			→	ACK		
			ersation			
	REL	<b>→</b>	→	BYE(REL)		
	RLC	<del>-</del>	+	200 OK BYE(RLC)		

TP303007	SIP reference: RFC 3261 [4]		- 19	SUP reference:
		Q.1912	.5 [1].	clauses 7.1 1 a) and 7.3.2
TSS reference	ISUP-SIP /Basic call/Sending of the ACM	•		•
SIP selection	PICS 3/1	J		
criteria				
ISUP selection	NOT PICS 4/9			
criteria				
Test purpose	Ensure that the SUT in Idle state, on rece	eipt of an IAM me	essage	e containing the complete
	called party number on receipt of a 183	Session Progres	ss with	n encapsulated ACM:
	<ul> <li>sends the ACM message;</li> </ul>			
	<ul> <li>the encapsulated ACM message is s</li> </ul>	ent unchanged b	oackw	ard.
SIP parameter				
values				
ISUP parameter	IAM; Called party number: complete nu	mber		
values				
Comments	ISUP/BICC	SUT		SIP-I
	IAM →		<b>→</b>	INVITE(IAM)
	ACM(no indication)		+	183 Session Progress(ACM)
	CPG(Alerting) ←		+	180 Ringing(CPG)
	ANM ←		<b>+</b>	200 OK INVITE(ANM)
			<b>→</b>	ACK
		Conversation		
	REL →		<b>→</b>	BYE(REL)
	RLC ←	•	+	200 OK BYE(RLC)

TP303011	SIP reference	: RFC 3261	4]	ISUP reference:			
<i>(</i>	10115 015 /5 : 11/0		15 13 417	Q.1912.5 [1], clauses 7.1, 7.3.1 and 7.4			
TSS reference:	ISUP-SIP /Basic call/S	sending of the	3 INVII	E message			
SIP selection criteria	PICS 1/3						
ISUP selection criteria	PICS 4/2 AND NOT P	ICS 4/9					
Test purpose	Ensure that the SUT in Idle state, on receipt of an IAM message containing the complete called party number where the end of address signalling is determined by the expiration timer T <sub>OIW1</sub> after the receipt of the latest address message and the continuity check is performed (ISUP) or COT is expected (BICC):  • sends the INVITE message to called user;  • the SUT shall withhold sending ACM until a successful continuity indication has been received;  • sends the ACM message with the CPS indicator set to " no indication (00)", the Called party's category indicator set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)", the interworking indicator set to "INT_IND_VAL", the ISUP indicator set to "ISUP_IND_ID", the ISDN access indicator set to "ISDN_ACC_IND_VAL".						
SIP parameter values	50t to 1001	<u></u>	<u> </u>	See indicate could losh_neo_ins_vne.			
ISUP parameter	IAM; Called party nui	mber: compl	ete nun	nber			
values	ACM,	р.					
	CPS indicator no indi	cation (00)					
			: no inc	lication(00) or ordinary subscriber (01) or payphone			
	(10)interworking indi	cator: INT I	ND VA	L (PIXIT)			
	ISUP indicator: ISUP_IND_ID (PIXIT)						
	ISDN access indicator ISDN_ACC_IND_VAL (PIXIT)						
Comments	ISUP/BICC	SUT		SIP-I			
	IAM	<b>→</b>	<b>→</b>	INVITE(IAM)			
			+	183 Session Progress without encapsulated ACM			
	COT	<b>→</b>	<b>→</b>	UPDATE			
		1 1	+	200 OK UPDATE			
		T <sub>OIW1</sub> ex	piry				
	ACM(no indication)	<b>←</b>					
	CPG(Alerting, BCi)	<del>-</del>	+	180 Ringing(ACM)			
	ANM	<del>-</del>		200 OK INVITE(ANM)			
	→ ACK						
		Conversa	tion	1.1511			
	REL	<b>→</b>	<b>→</b>	BYE(REL)			

TP303012	SIP reference	: RFC	3261 [4]		ISUP reference:				
					Q.1912.5 [1], clauses 7.1, 7.3.1 and 7.4				
TSS reference	ISUP-SIP /Basic call/Sending of the INVITE message								
SIP selection	PICS 1/3 AND PICS 3/2 AND PICS 4/5 AND PICS 4/4 AND PICS 4/15								
criteria									
ISUP selection	PICS 4/2 AND NOT P	PICS 4/2 AND NOT PICS 4/9							
criteria									
Test purpose	Ensure that the SUT if overlap addressing is to be used toward the SIP network, on receipt of an IAM message containing the <b>minimum number of digits required for routing the call</b> has been received (start timer TOIW2 and invoke the appropriate outgoing SIP signalling procedure) and the continuity check is performed (ISUP) or COT is expected (BICC). After the expiry of T <sub>oiw2</sub> :  • sends the ACM message with the CPS indicator set to " no indication (00)", the Called party's category indicator set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)", the interworking indicator set to "INT_IND_VAL", the ISUP indicator set								
	to "ISUP_IND_ID"	', the	ISDN acce	ess	indicator set to "ISDN_ACC_IND_VAL".				
SIP parameter									
values									
ISUP parameter values	ACM: Backward call in								
valuos	Called party's of payphone (10) interworking industrial ISUP indicator: ISDN access in CPG: Event indicator: 180 Ringing	CPS indicator no indication (00) Called party's category indicator: no indication(00) or ordinary subscriber (01) or payphone (10) interworking indicator: INT_IND_VAL (PIXIT) ISUP indicator: ISUP_IND_ID (PIXIT) ISDN access indicator ISDN_ACC_IND_VAL (PIXIT)  CPG: Event indicator = ALRTING and the BCI from the ACM encapsulated in the received							
Comments	ISUP/BICC		SUT		SIP-I				
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)				
				<b>←</b>	183 Session Progress without encapsulated ACM				
	COT	<b>→</b>		<b>→</b>	UPDATE				
				<del>-</del>	200 OK UPDATE				
		T <sub>C</sub>	<sub>DIW2</sub> expir	у					
	ACM(no indication)	+							
	CPG(Alerting, BCi)	+		<del>(</del>	180 Ringing(ACM)				
	ANM	+		<b>←</b>	200 OK INVITE(ANM)				
				<b>→</b>	ACK				
		Co	nversatio	n					
	REL	<b>→</b>		<b>→</b>	BYE(REL)				
	RLC	+		<b>←</b>	200 OK BYE(RLC)				

TP303013	SIP refere	ence	: RFC 3261 [4]		ISUP reference:			
					Q.1912.5 [1], clauses 7.1, 7.3.1 and 7.4			
TSS reference	ISUP-SIP /Basic call/Sending of the ACM message							
SIP selection	PICS 1/3		-					
criteria								
ISUP selection	PICS 4/2 AND NO	)T PI	ICS 4/9					
criteria								
Test purpose					pt of an IAM message containing the complete			
					k is performed (ISUP) or COT is expected (BICC)			
	indication receipt			essa	ge:			
			nessage with:					
					in the encapsulated ACM;			
					ator set to the value in the encapsulated ACM;			
		o the interworking indicator set to the value in the encapsulated ACM;						
	<ul> <li>the ISUP indicator set to the value in the encapsulated ACM;</li> <li>the ISDN access indicator set to the value in the encapsulated ACM.</li> </ul>							
SIP parameter	O THE ISDIN 6	icce:	ss illuicator se	ינוטו	ine value in the encapsulated ACIVI.			
values								
ISUP parameter	IAM; Called party	/ nur	nher: complete	nun	nher			
values					value in the encapsulated ACM			
Comments	ISUP/BICC	Zan in	SUT	,	SIP-I			
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)			
				+	183 Session Progress without encapsulated ACM			
	COT	<b>→</b>		<b>→</b>	UPDATE			
				+	200 OK UPDATE			
	ACM	+		+	180 Ringing(ACM)			
	ANM	0 0 7						
				<b>→</b>	ACK			
			Conversation					
	REL	<b>→</b>		<b>→</b>	BYE(REL)			
	RLC	+		+	200 OK BYE(RLC)			

TP303014	SIP reference: RFC 3261 [4	.]		SUP reference:				
				, clauses 7.1, 7.3.1 and 7.4				
TSS reference	ISUP-SIP /Basic call/Sending of the INVITE message							
SIP selection criteria	PICS 1/3 AND PICS 3/2 AND NOT F	PICS 4/15						
ISUP selection	PICS 3/8 AND PICS 4/2 AND NOT F	PICS 4/9						
criteria	11000,074,121100 1/274,1211011	.00 .,0						
Test purpose	Ensure that the SUT if <b>overlap addressing is to be used toward the SIP network</b> , on receipt of an IAM message containing the <b>minimum number of digits required for routing the call</b> has been received (start timer T <sub>OIW2</sub> and invoke the appropriate outgoing SIP signalling procedure) and the continuity check is performed (ISUP) or COT is expected (BICC). After the expiry of T <sub>Oiw2</sub> :							
	party's category indicator set to "payphone (10)", the interworkir	<ul> <li>sends the ACM message with the CPS indicator set to " no indication (00)", the Called party's category indicator set to "no indication(00)" or "ordinary subscriber (01)" or "payphone (10)", the interworking indicator set to "INT_IND_VAL", the ISUP indicator set to "ISUP_IND_ID", the ISDN access indicator set to "ISDN_ACC_IND_VAL".</li> </ul>						
SIP parameter	15 1.555_15 ; and 16514 do	- 500						
values								
ISUP parameter	ACM: Backward call indicator	ACM: Backward call indicator						
values	Called party's category indica payphone (10) interworking indicator: INT_IN ISUP indicator: ISUP_IND_IE ISDN access indicator: ISDN	CPS indicator: no indication (00) Called party's category indicator: no indication(00) or ordinary subscriber (01) or						
	<b>CPG:</b> Event indicator = ALRTING ar	nd the BCI f	rom the ACM e	ncapsulated in the received				
_	180 Ringing			T				
Comments	ISUP/BICC	SL	JT	SIP-I				
	IAM →							
	COT →		<u>·</u>	INVITE(IAM)				
		T <sub>OIW2</sub>	expiry					
	ACM(no indication)							
	CPG(Alerting)		+	180 Ringing(ACM)				
	ANM		+	200 OK INVITE(ANM)				
			→	ACK				
		Conve	rsation					
	REL →		<b>→</b>	BYE(REL)				
	RLC +		←	200 OK BYE(RLC)				

TP303015	SIP reference: RFC 3261 [4]		IS	SUP reference:				
	Q.1912.5 [1], clauses 7.1, 7.3.1 and 7.4							
TSS reference	ISUP-SIP /Basic call/Sending of the ACM message							
SIP selection	PICS 1/3 AND NOT PICS 4/15							
criteria								
ISUP selection	PICS 4/2 AND NOT PICS 4/9							
criteria								
Test purpose	Ensure that the SUT in Idle state, on receipt of an IAM message containing the complete called party number, the continuity check is performed (ISUP) or COT is expected (BICC) indication receipt of a 180 Ringing message:  Sends the ACM message with:  the CPS indicator set to the value in the encapsulated ACM;  the Called party's category indicator set to the value in the encapsulated ACM;  the interworking indicator set to the value in the encapsulated ACM;  the ISUP indicator set to the value in the encapsulated ACM;  the ISUP indicator set to the value in the encapsulated ACM;							
SIP parameter values								
ISUP parameter	IAM; Called party number: complete n	umber						
values	ACM, Backward call indicator is set to the	ne value in the e	ncapsu	lated ACM				
Comments	ISUP/BICC	SUT		SIP-I				
	IAM →							
	COT →		→	INVITE(IAM)				
	ACM ←		+	180 Ringing(ACM)				
	ANM ←		+	200 OK INVITE(ANM)				
			→	ACK				
		Conversation						
	REL →		→	BYE(REL)				
	RLC +		+	200 OK BYE(RLC)				

# 5.2.2.4 Sending of the CPG message

TP304001	SIP reference: RF0	3261 [4]	ISUP reference: Q.1912.5 [1], clauses 7.1 and 7.3					
TSS reference	ISUP-SIP /Basic call/ Sending of the CPG message							
SIP selection	PICS 3/1							
criteria								
ISUP selection	PICS 3/8							
criteria								
Test purpose	Ensure that the SUT, having sent a ACM message with called party status "no indication" on receipt of a 180 Ringing with a encapsulated ISUP message:  sends the CPG message with the <b>event indicator</b> set to "Alerting".							
SIP parameter								
values								
ISUP parameter	ACM: BCi called party statu	ıs indicator =	no indication					
values	CPG: Event Indicator = ALI	ERTING, BCi	as received fro	m the e	ncapsulated ACM			
Comments	ISUP/BICC		SUT		SIP-I			
	IAM	<b>→</b>						
	SAM	<b>→</b>						
	SAM	<b>→</b>		<b>→</b>	INVITE(IAM)			
			T <sub>OIW2</sub> expiry	•				
	ACM(no indication)	+						
	CPG(Alerting BCi)	+		+	180 Ringing(ACM)			
	ANM	+		+	200 OK INVITE(ANM)			
				<b>→</b>	ACK			
			Conversation					
	REL	→		<b>→</b>	BYE(REL)			
	RLC	+		+	200 OK BYE(RLC)			

TP304002	SIP reference: RFC 326	l [4]		ISUP reference:				
	Q.1912.5 [1], clauses 7.1 and 7.3.1							
TSS reference	ISUP-SIP /Basic call/ Sending of	the CPG me	ssage					
SIP selection criteria								
ISUP selection criteria								
Test purpose	Ensure that the SUT, having sent a ACM message with called party status "no indication" on receipt of a 183 Session progress message with a encapsulated ISUP message:  sends the CPG message with the <b>event indicator</b> set to "Alerting".							
SIP parameter values	- J							
ISUP parameter values								
Comments	ISUP/BICC	,	SUT	SIP-I				
	IAM	<b>→</b>	<b>→</b>	INVITE(IAM)				
	ACM(no indication)	<del>(</del>	+	183 Session Progress(ACM)				
	CPG(Alerting)	<del>-</del>	+	180 Ringing(CPG)				
	ANM	<del>-</del>	+	200 OK INVITE(ANM)				
			<b>→</b>	ACK				
		Conv	ersation					
	REL	<b>→</b>	<b>→</b>	BYE(REL)				
	RLC	+	+	200 OK BYE(RLC)				

# 5.2.2.5 Sending of the ANM message

TP305001	SIP reference: RFC 3261 [4]	l	ISUP reference: Q.1912.5 [1], clause 7.5						
TSS reference	ISUP-SIP/Basic call/ Sending of the Answer Message (ANM)/								
SIP selection		<u> </u>							
criteria									
ISUP selection criteria									
Test purpose	call, it shall stop timer TOIW2 (if runn <ul><li>send ANM as determined by BIC</li></ul>	Ensure that the SUT having sent the ANM message, on receipt of a 200 OK INVITE for this call, it shall stop timer TOIW2 (if running):  send ANM as determined by BICC/ISUP procedures;  stop any existing awaiting answer indication (e.g. ringing tone).							
SIP parameter values	200 OK INVITE;	,							
	A N.I.M.								
ISUP parameter values	ANM;								
Comments	ISUP/BICC	SUT		SIP-I					
	IAM →		<b>→</b>	INVITE(IAM)					
	ACM ←		+	180 Ringing(ACM)					
	ANM ←		+	200 OK INVITE(ANM)					
	→ ACK								
		Conversation	<u> </u>						
	REL →		<b>→</b>	BYE(REL)					
	RLC ←								

## 5.2.2.6 Sending of the CON message

TP306001	SIP reference: RFC 3261 [4]			ISUP reference:				
			Q.1912.5	[1], clauses 7.5 and 7.5.1				
TSS reference:	ISUP-SIP/Basic call/ Sending of the Connect Message (CON)/							
SIP selection criteria								
ISUP selection								
criteria								
Test purpose	Ensure that the SUT, having not sent the ACM message, on receipt of a 200 OK INVITE for this call, it shall stop timer TOIW2 (if running):  • send CON as determined by BICC/ISUP procedures.  Stop any existing awaiting answer indication (e.g. ringing tone) BCI encoded as received in the encapsulated CON.							
SIP parameter values	200 OK INVITE;							
ISUP parameter values	CON; interworking indicator: INT_IN ISUP indicator: ISUP_IND_ID (PIXIT ISDN access indicator ISDN_ACC_I CPS indicator: no indication	)	,					
Comments	ISUP/BICC	SUT		SIP-I				
	IAM →		<b>→</b>	INVITE(IAM)				
	CON +		+	200 OK INVITE(CON)				
		→ ACK						
		Conversation	on					
	REL →		<b>→</b>	BYE(REL)				
	RLC ←		+	200 OK BYE(RLC)				

## 5.2.2.7 Receipt of the Release message (REL)

TP307001	SIP reference: RFC 3	261 [4]		Q		SUP reference: .5 [1], clause 7.7.1, 1)			
TSS reference	ISUP-SIP/Basic call/ Receipt of	ISUP-SIP/Basic call/ Receipt of the Release message (REL)/							
SIP selection criteria									
ISUP selection criteria									
Test purpose	Ensure that the SUT after receiving the IAM but before an INVITE has been sent. On receipt of a REL message: no action is required on the SIP side other than to terminate local procedures if any are in progress.								
SIP parameter values		any are in progressor							
ISUP parameter values									
Comments	ISUP/BICC		SUT	Ţ'		SIP-I			
	IAM →								
	REL	<b>→</b>							
	RLC +								

TP307002	SIP reference: RFC 3261 [4]			ISUP reference: Q.1912.5 [1], clause 7.7.1 2)					
TSS reference	ISUP-SIP/Basic call/ Receipt of the Release message (REL)/								
SIP selection criteria									
ISUP selection									
criteria									
Test purpose	Ensure that the SUT after receiving the IAM with the complete called party number, sending an INVITE message. On receipt of a REL message <b>before</b> any response message has been received which establishes a confirmed dialogue:  the SUT shall hold the REL message until a SIP response has been received;  the SUT shall send a BYE request.								
SIP parameter values									
ISUP parameter values									
Comments	ISUP/BICC		SUT		SIP-I				
	IAM	<b>→</b>		→	INVITE(IAM)				
	REL	<b>→</b>							
	RLC	+							
				+	200 OK INVITE(CON)				
				<b>→</b>	ACK				
				<b>→</b>	BYE(REL)				
				+	200 OK BYE(RLC)				

TP307003	SIP reference: RFC 3	261 [4]		SUP reference:				
11 007 000	on reference: At 0 0	201 [4]	_	5 [1], clause 7.7.1 2) 3)				
TSS reference	ISUP-SIP/Basic call/ Receipt of the Release message (REL)/							
SIP selection	, , , , , , , , , , , , , , , , , , , ,							
criteria								
ISUP selection								
criteria								
Test purpose	<ul> <li>Ensure that the SUT after receiving the IAM with the complete called party number, sending an INVITE message. On receipt of a REL message before a 200 OK SIP response message has been received:</li> <li>the SUT shall hold the REL message. A CANCEL is sent when any SIP response was been received;</li> <li>on subsequently receiving 200 OK INVITE messages, the SUT shall send an ACK for the 200 OK INVITE and subsequently send a BYE request after the ACK has been sent.</li> <li>for Profile C (SIP-I), if a BYE message is sent, it shall encapsulate the received REL message.</li> </ul>							
SIP parameter values								
ISUP parameter values								
Comments	ISUP/BICC	SU	Т	SIP-I				
	IAM	<b>→</b>	→	INVITE(IAM)				
			+	100 Trying				
	REL	<b>→</b>						
	RLC	<del>-</del>	<b>→</b>	CANCEL				
			+	200 OK INVITE(CON)				
			<b>→</b>	ACK				
			<b>→</b>	BYE(REL)				
			+	200 OK BYE(RLC)				

TP307004	SIP reference: RFC 32	61 [4]		ISUP reference: 5 [1], clause 7.7.1 2) 3)				
TSS reference	ISUP-SIP/Basic call/ Receipt of the Release message (REL)/							
SIP selection criteria								
ISUP selection criteria								
Test purpose	Ensure that the SUT after receiving the IAM with the complete called party number, sending an INVITE message. On receipt of a REL message <b>before</b> an early dialogue with the message 100 Trying has been established:  • the SUT shall hold the REL message until a <b>100 Trying</b> response has been received;  • the SUT shall send a CANCEL.							
SIP parameter values								
ISUP parameter values								
Comments	ISUP/BICC	SL		SIP-I				
	IAM	<b>→</b>	<b>→</b>	INVITE(IAM)				
	REL	<del>}</del>						
	RLC	_	+	100 Truing				
			<b>→</b>	100 Trying CANCEL				
			+					
			+	200 OK CANCEL				
			<del>-</del>	487 Request terminated ACK				
			7	AUN				

TP307005	SIP reference: RFC 3	3261 [4]		ISUP reference:			
				2.5 [1], clause 7.7.1 4)			
TSS reference	ISUP-SIP/Basic call/ Receipt	of the Release i	nessage (REL).	/			
SIP selection criteria							
ISUP selection criteria							
Test purpose	Ensure that the SUT after receiving the IAM with the complete called party number, sending an INVITE message. On receipt of a REL message after a 200 OK response message has been received:  • the SUT shall send a BYE request. The received REL is encapsulated in the BYE.						
SIP parameter values							
ISUP parameter values							
Comments	ISUP/BICC	SI	JT	SIP-I			
	IAM	<b>→</b>	<b>→</b>	INVITE(IAM)			
	ACM	+	+	180 Ringing(ACM)			
	ANM	+	+	200 OK INVITE(ANM)			
		→ ACK					
	REL	<b>→</b>	<b>→</b>	BYE(REL)			
	RLC	<del>-</del>	<del>(</del>	200 OK BYE(RLC)			

TP307006	SIP reference: RFC 3261 [4	.]	I	SUP reference:			
			Q.1912	2.5 [1], clause 7.7.1 3)			
TSS reference	ISUP-SIP/Basic call/ Receipt of the Release message (REL)/						
SIP selection							
criteria							
ISUP selection							
criteria							
Test purpose	Ensure that the SUT after receiving the IAM with the complete called party number, sending an INVITE message. On receipt of a REL message after an early dialogue with the SIP message defined with the SIP_MESSAGE_VA has been established and before dialog has been confirmed:  • the SUT shall send a CANCEL request which is answerd by 200 OK CANCEL and INVITE request will be terminated by 487.						
SIP parameter	·						
values							
ISUP parameter values							
Comments	ISUP/BICC	SU	Т	SIP-I			
	IAM →		→	INVITE(IAM)			
	ACM ←		+	SIP_MESSAGE_VA			
	REL →						
	RLC ←						
			→	CANCEL			
			+	200 OK CANCEL			
			+	487 Request terminated			
			→	ACK			

Table 8

	Values for test purpose TP307106						
VA	VA SIP MESSAGE_VA						
VA_1	VA_1 180 Ringing(ACM)						
VA_2	/A_2 181 Call Is Being Forwarded(ACM)						
VA_3	VA_3 182 Queued(ACM)						
VA_4							

# 5.2.2.8 Sending of a REL message (REL) / receipt of a backward BYE

TP308001	SIP reference: RFC 3261 [4]		Q.19	ISUP reference: Q.1912.5 [1], clause 7.7.2			
TSS reference	ISUP-SIP /Basic call/ Sending of the Release message (REL)/						
SIP							
selection							
criteria							
ISUP							
selection							
criteria							
Test	Ensure that the SUT after receiving the	IAM sends	out an INVIT	E message and on receipt of a			
purpose	BYE message in the confirmed dialogu	ie:		·			
	<ul> <li>sends a REL message constructed</li> </ul>	d from the er	ncapsulated F	REL in the received BYE.			
SIP			•				
parameter							
values							
ISUP	REL; Cause value "Normal call clearing	<b>a</b> "					
parameter	, i						
values							
Comments	ISUP/BICC	SUT		SIP-I			
	IAM →		→	INVITE(IAM)			
	ACM $\leftarrow$		+	180 Ringing(ACM)			
	ANM +		+	200 OK INVITE(ANM)			
			→	ACK			
	Co	nversation					
	REL +		+	BYE(REL)			
	RLC →		→	200 OK BYE(RLC)			

TP308002	SIP reference: RFC 3	261 [4	i]			SUP reference: 2.5 [1], clause 7.7.6
TSS reference	ISUP-SIP /Basic call/ Sending	of the	Release r			
SIP selection criteria						
ISUP selection criteria						
Test purpose	Ensure that the SUT after receiving the IAM sends out an INVITE message. On receipt of a Failure message (4xx, 5xx, 6xx) defined as SIP_Failure_VA:  sends a REL message constructed from the encapsulated REL.					
SIP parameter values						
ISUP parameter values	REL; cause value: CV_ISUP					
Comments	ISUP/BICC		SU	Τ		SIP-I
	IAM	<b>→</b>			<b>→</b>	INVITE(IAM)
					+	100 Trying
	REL	+			+	SIP_Failure_VA(REL)
	RLC	<b>→</b>			<b>→</b>	ACK

Table 9

	Values for test purpose TP308002					
VA	←REL (Cause Value) CV_ ISUP	←4XX/5XX/6XX SIP message SIP_Failure_VA				
VA_01	127 Interworking	400 Bad Request				
VA_02	127 Interworking	402 Payment Required				
VA_03	127 Interworking	403 Forbidden				
VA_04	1 Unallocated number	404 Not Found				
VA_05	127 Interworking	405 Method Not Allowed				
VA_06	127 Interworking	406 Not Acceptable				
VA_07	127 Interworking	408 Request Timeout				
VA_08	22 Number changed (without diagnostic)	410 Gone				
VA_9	127 Interworking	423 Interval Too Brief				
VA_10	20 Subscriber absent	480 Temporarily Unavailable				
VA_11	127 Interworking	481 Call/Transaction does not exist				
VA_12	127 Interworking	482 Loop Detected				
VA_13	127 Interworking	483 Too many hops				
VA_14	127 Interworking	485 Ambiguous				
VA_15	17 User busy	486 Busy Here				
VA_16	127 Interworking	488 Not acceptable here				
VA_17	127 Interworking	493 Undecipherable				
VA_18	127 Interworking	500 Server Internal error				
VA_19	127 Interworking	501 Not implemented				
VA_20	127 Interworking	502 Bad Gateway				
VA_21	127 Interworking	504 Server timeout				
VA_22	17 User busy	600 Busy Everywhere				
VA_23	21 Call rejected	603 Decline				
VA_24	1 Unallocated number	604 Does not exist anywhere				
VA_25	127 Interworking	606 Not acceptable				

TP308003	SIP reference: RFC	3261 [4]	ISUP reference: Q.1912.5 [1], clause 7.7.6			
TSS reference	ISUP-SIP /Basic call/ Sending	of the Releas				
SIP selection criteria	NOT PICS 4/10		•			
ISUP selection criteria						
Test purpose	Ensure that the SUT after receiving the IAM sends out an INVITE message, on receipt of a Failure message <b>487 Request terminated</b> :  • no action is taken on the ISUP if a CANCEL request was previously sent before an answer to an INVITE was received.					
SIP parameter values						
ISUP parameter values						
Comments	ISUP/BICC	5	UT	SIP-I		
	IAM	<b>→</b>	→	INVITE(IAM)		
			+	100 Trying		
	REL	<b>→</b>	→	CANCEL		
	RLC	+	+	200 OK CANCEL		
			+	487 Request Terminated		
			<b>→</b>	ACK		

TP308004	SIP reference: RFC 3261 [4]			ISUP reference: Q.1912.5 [1], clause 7.7.6		
TSS reference	ISUP-SIP /Basic call/ Sending	of the	Release r	nessage (	REL)	/
SIP selection criteria						
ISUP selection criteria						
Test purpose	Ensure that the SUT after receiving the IAM sends out an INVITE message, a SIP message defined as SIP MESSAGE_VA has been received, on receipt of a Failure message (4xx, 5xx, 6xx) defined as SIP_Failure_VA:  • sends a REL message constructed from the encapsulated REL.					
SIP parameter values						
ISUP parameter values	REL; cause value: CV_ISUP					
Comments	ISUP/BICC		SU <sup>*</sup>	Τ		SIP-I
	IAM → INVITE(IAM)					
	ACM	+			<b>←</b>	SIP MESSAGE_VA(ACM)
	REL	+			<b>←</b>	SIP_Failure_VA(REL)
	RLC	<b>→</b>			<b>→</b>	ACK

#### Table 10

	Values for test purpose TP308004					
VA SIP MESSAGE_VA						
VA_1	VA_1 180 Ringing(ACM)					
VA_2	VA_2 183 Session Progress(ACM)					

Table 11

	Values for test purposes TP308004					
VA	←REL (Cause Value) CV_ ISUP	←4XX/5XX/6XX SIP message SIP_Failure_VA				
VA_01	127 Interworking	400 Bad Request				
VA_02	127 Interworking	402 Payment Required				
VA_03	127 Interworking	403 Forbidden				
VA_04	1 Unallocated number	404 Not Found				
VA_05	127 Interworking	405 Method Not Allowed				
VA_06	127 Interworking	406 Not Acceptable				
VA_07	127 Interworking	408 Request Timeout				
VA_08	22 Number changed (without diagnostic)	410 Gone				
VA_09	127 Interworking	423 Interval Too Brief				
VA_10	20 Subscriber absent	480 Temporarily Unavailable				
VA_11	127 Interworking	481 Call/Transaction does not exist				
VA_12	127 Interworking	482 Loop Detected				
VA_13	127 Interworking	483 Too many hops				
VA_14	127 Interworking	485 Ambiguous				
VA_15	17 User busy	486 Busy Here				
VA_16	127 Interworking	488 Not acceptable here				
VA_17	127 Interworking	493 Undecipherable				
VA_18	127 Interworking	500 Server Internal error				
VA_19	127 Interworking	501 Not implemented				
VA_20	127 Interworking	502 Bad Gateway				
VA_21	127 Interworking	504 Server timeout				
VA_22	17 User busy	600 Busy Everywhere				
VA_23	21 Call rejected	603 Decline				
VA_24	1 Unallocated number	604 Does not exist anywhere				
VA_25	127 Interworking	606 Not acceptable				

TP308005	SIP reference: RFC 3	1]	Q	_	SUP reference: 2.5 [1], clause 7.7.6		
TSS reference	ISUP-SIP /Basic call/ Sending	of the	Release m				
SIP selection criteria	NOT PICS 4/10						
ISUP selection criteria							
Test purpose	Ensure that the SUT after receiving the IAM sends out an INVITE message a 180 ringing message has been received on receipt of a Failure message (4xx, 5xx, 6xx) defined as SIP_Failure_VA:  • sends a REL message constructed from the encapsulated REL.						
SIP parameter values							
ISUP parameter values	REL; cause value: CV_ISUP						
Comments	ISUP/BICC		SUT			SIP-I	
	IAM	<b>→</b>			<b>→</b>	INVITE(IAM)	
	ACM ← 180 Ringing						
	REL	+			<del>(</del>	SIP_Failure_VA(REL)	
	RLC						

Table 12

Values for test purposes TP308005					
VA	←REL (Cause Value) CV_ISUP	←4XX/5XX/6XX SIP message SIP_Failure_VA			
VA_01	127 Interworking	408 Request timeout			
VA_02	17 User busy	486 Busy Here			
VA_03	17 User busy	600 Busy Everywhere			
VA_04	21 Call rejected	603 Decline			

TP308006	SIP reference: RFC 3261 [4] ISUP reference: Q.1912.5 [1], clause 7.7.6						
TSS reference	ISUP-SIP /Basic call/ Sending	of the	Release messac		:		
SIP selection criteria	NOT PICS 4/21						
ISUP selection criteria							
Test purpose	Ensure that the SUT after receiving the IAM sends out an INVITE message. On receipt of a response message (3xx) defined as SIP_Response_VA, the SUT:  • sends a REL message with the Cause value CV_ISUP.						
SIP parameter values							
ISUP parameter values	REL; cause value: CV_ISUP						
Comments	ISUP/BICC		SUT		SIP-I		
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)		
				+	100 Trying		
	REL	+		+	SIP_Response_VA		
	RLC	<b>→</b>		<b>→</b>	ACK		

Table 13

	Values for test purposes TP308006					
VA	←REL (Cause Value) CV_ ISUP	←3XX SIP message SIP_Response_VA				
VA_01	127 Interworking	300 Multiple Choices				
VA_02	127 Interworking	301 Moved Permanently				
VA_03	127 Interworking	302 Move Temporarily				
VA_04	127 Interworking	305 Use Proxy				
VA_05	127 Interworking	380 Alternative Service				

Mapping of Cause Indicators parameter into SIP Reason header fields.

Table 14

Cause indications parameter field	Value of parameter field	component of SIP Reason header field	Component value
-	-	Protocol	"Q.850"
Cause Value	"XX" (see note 1)	Protocol-cause	"cause= XX" (see note 1)
-	-	Reason-text	Should be filled with the definition text as stated in Q.850 (see note 2)

NOTE 1: "XX" is the Cause Value as defined in ITU-T Recommendation Q.850 [3].

NOTE 2: Due to the fact that the Cause Indications parameter does not include the definition text as defined in table 1/ITU-T Recommendation Q.850 [3] this is based on provisioning in the O-IWU.

#### 5.2.2.9 Autonomous release at O-IWU

#### 5.2.2.9.1 Receipt of Reset Circuit message (RSC)

TP309001	SIP reference: RFC 3261 [4]		ISUP reference:			
		Q.1912.5 [1	], clauses 7.7.1, 1), 7.7.4 and 7.7.5			
TSS reference	ISUP-SIP/Basic call/ Receipt of Reset (GRS) or Circuit group blocking messa					
	oriented	ge (CGB) with th	ie indication nardware failure			
SIP selection						
criteria						
ISUP selection						
criteria						
Test purpose	Ensure that the SUT after receiving the IAM but before an INVITE has been sent on receipt of a RSC message:  no action is required on the SIP side other than to terminate local procedures if any are in progress.					
SIP parameter						
values						
ISUP parameter						
values						
Comments	ISUP/BICC	SUT	SIP-I			
	IAM →					
	RSC →					
	RLC ←					

TP309002	SIP reference: RFC 3261 [4]	IS	SUP reference:			
			lauses 7.7.1, 7.7.4 and 7.7.5			
TSS reference	ISUP-SIP/Basic call/ Receipt of Reset circuit message (RSC), Circuit group reset message (GRS) or Circuit group blocking message (CGB) with the indication hardware failure oriented					
SIP selection criteria						
ISUP selection criteria						
Test purpose	Ensure that the SUT after receiving the IAM with the complete called party number, sending an INVITE message on receipt RSC message before a SIP MESSAGE_VA response message has been received:  the SUT shall hold the RSC message until a SIP response has been received;  the SUT shall send a CANCEL request. The RSC is not encapsulated.					
SIP parameter values			·			
ISUP parameter values						
Comments	ISUP/BICC :	SUT	SIP-I			
	IAM →	<b>→</b>	INVITE(IAM)			
	RSC →					
	RLC ←					
		+	SIP_MESSAGE_VA			
		<b>→</b>	CANCEL			
		+	200 OK CANCEL			
		+	487 Request terminated			
		<b>→</b>	ACK			

Table 15

	Values for test purpose TP309002					
VA	SIP MESSAGE_VA					
VA_1	100 Trying					
VA_2	180 Ringing					
VA_3	183 Session Progress					

TP309003	SIP reference: RFC	3261 [4]	ISUP reference:		UP reference:	
			Q.1912.5 [	1], cl	auses 7.7.1, 7.7.4 and 7.7.5	
TSS reference	ISUP-SIP/Basic call/ Receip (GRS) or Circuit group block oriented				Circuit group reset message cation hardware failure	
SIP selection criteria						
ISUP selection criteria						
Test purpose	Ensure that the SUT after receiving the IAM with the complete called party number, sending a INVITE message on receipt RSC message <b>before</b> a 200 OK response message has been received:  • on subsequently receiving 200 OK INVITE messages, the SUT shall send an ACK for the 200 OK INVITE and subsequently send a BYE request after the ACK has been sent The RSC is not encapsulated.					
SIP parameter values	BYE: A REL is encapsulated	d with cause 31				
ISUP parameter values						
Comments	ISUP/BICC	;	SUT		SIP-I	
	IAM	→		<b>→</b>	INVITE(IAM)	
	RSC	→				
	RLC	+				
	← 200 OK INVITE(CON)					
				<b>→</b>	ACK	
				<b>→</b>	BYE(REL#31)	
	•			+	200 OK BYE(RLC)	

TP309005	SIP reference: RFC 3261 [4] ISUP reference:						
			Q.1912.5 [1], d	clauses 7.7.1, 7.7.4 and 7.7.5			
TSS reference	ISUP-SIP/Basic call/ Receipt of Reset circuit message (RSC), Circuit group reset message						
	(GRS) or Circuit group blocking	g message (C	GB) with the ind	ication hardware failure			
	oriented						
SIP selection							
criteria							
ISUP selection							
criteria							
Test purpose	Ensure that the SUT after rece						
	sending a INVITE message wit						
	message on receipt RSC mess	age <b>after</b> a 2	200 OK response	message has been received:			
	<ul> <li>the SUT shall send a BYE</li> </ul>	request The	RSC is not enca	psulated.			
SIP parameter	BYE: A REL is encapsulated w	ith cause 31					
values							
ISUP parameter							
values							
Comments	ISUP/BICC		SUT	SIP-I			
	IAM	<b>→</b>	→	INVITE(IAM)			
	ACM	+	<b>+</b>	180 Ringing(ACM)			
	ANM	+	<b>+</b>	200 OK INVITE(ANM)			
			<b>→</b>	ACK			
	RSC	<b>→</b>	<b>→</b>	BYE(REL#31)			
	RLC	+	+	200 OK BYE(RLC)			

TP309006	SIP reference: F	RFC 3261 [4]	ISUP reference		SUP reference:
			Q.191	2.5 [1], c	lauses 7.7.1, 7.7.4 and 7.7.5
TSS reference	ISUP-SIP/Basic call/ Re (GRS) or Circuit group oriented				), Circuit group reset message cation hardware failure
SIP selection criteria	Onented				
ISUP selection criteria					
Test purpose	Ensure that the SUT after receiving the IAM with the complete called party number, sending a INVITE message on receipt RSC message after an early dialogue with the SIP message defined with the SIP_MESSAGE_VA has been established.  The SUT shall send a CANCEL request The RSC is not encapsulated.				
SIP parameter values		·			
ISUP parameter values					
Comments	ISUP/BICC		SUT		SIP-I
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)
	ACM	+		+	SIP_MESSAGE_VA(ACM)
	RSC	<b>→</b>			
	RLC	+			
					CANCEL
					· · · · · · · · · · · · · · · · · · ·
		+		→ ← ← →	CANCEL 200 OK CANCEL 487 Request termi ACK

Table 16

	Values for test purpose; TP309006				
VA	SIP MESSAGE_VA				
VA_1	180 Ringing				
VA_2	183 Session Progress				

## 5.2.2.9.2 Receipt of Circuit group reset message (GRS)

TP309007	SIP reference: RFC 32	61 [4]		IS	SUP reference:
				Q.1912.	5 [1], clauses 7.7.1, 1),
					7.7.4 and 7.7.5
TSS reference	ISUP-SIP/Basic call/ Receipt of (GRS) or Circuit group blocking oriented				
SIP selection criteria	onemed				
ISUP selection criteria					
Test purpose	Ensure that the SUT after receiving the IAM but before an INVITE has been sent on receipt of GRS message: no action is required on the SIP side other than to terminate local procedures if any are in progress.				
SIP parameter values					
ISUP parameter values					
Comments	ISUP/BICC		SUT		SIP-I
	IAM	<b>→</b>			
	GRS	<b>→</b>			
	GRA	<del>(</del>			

TP309008	SIP reference: RFC 3261 [4]	IS	SUP reference:		
			lauses 7.7.1, 7.7.4 and 7.7.5		
TSS reference	ISUP-SIP/Basic call/ Receipt of Reset circui (GRS) or Circuit group blocking message (Coriented				
SIP selection criteria					
ISUP selection criteria					
Test purpose	Ensure that the SUT after receiving the IAM with the complete called party number, sending a INVITE message on receipt GRS message before SIP MESSAGE_VA response message has been received:  the SUT shall hold the GRS message until a SIP response has been received; the SUT shall send a CANCEL request The GRS is not encapsulated.				
SIP parameter values					
ISUP parameter values					
Comments	ISUP/BICC S	SUT	SIP-I		
	IAM →	<b>→</b>	INVITE(IAM)		
	GRS →				
	GRA <b>←</b>				
		+	SIP_MESSAGE_VA		
		<b>→</b>	CANCEL		
		+	200 OK CANCEL		
		+	487 Request terminated		
		<b>→</b>	ACK		

Table 17

	Values for test purpose TP309008					
VA	VA SIP MESSAGE_VA					
VA_1	100 Trying					
VA_2	180 Ringing					
VA_3	183 Session Progress					

TP309009	SIP reference: RFC 326	61 [4]	0 4040 5 [4]	ISUP reference:		
T00 (	IOLID OID/Dania anii/ Danaiata	f D t - :		clauses 7.7.1 3), 7.7.4 and 7.7.5		
TSS reference	ISUP-SIP/Basic call/ Receipt of Reset circuit message (RSC), Circuit group reset message (GRS) or Circuit group blocking message (CGB) with the indication hardware failure					
	oriented	g message	(CGB) with the i	ndication nardware failure		
SIP selection	Offerfied					
criteria						
ISUP selection criteria						
Test purpose	Ensure that the SUT after receiving the IAM with the complete called party number, sending a INVITE message on receipt GRS message before a 200 OK response message has been received:  the SUT shall hold the GRS message until a response has been received. A CANCEL is sent The GRS is not encapsulated;  on subsequently receiving 200 OK INVITE messages, the SUT shall send an ACK for the 200 OK INVITE and subsequently send a BYE request after the ACK has been sent.					
SIP parameter values						
ISUP parameter values						
Comments	ISUP/BICC		SUT	SIP-I		
	IAM	<b>→</b>	•	→ INVITE(IAM)		
			•	← 100 Trying		
	GRS	<b>→</b>				
	GRA	+	•	→ CANCEL		
			•	€ 200 OK INVITE(CON)		
			•	→ ACK		
			•	€ 200 OK CANCEL		
			•	→ BYE(REL#31)		
			•	€ 200 OK BYE(RLC)		

TP309011	SIP reference: RFC 32	SIP reference: RFC 3261 [4] ISUP reference:					
TSS reference	Q.1912.5 [1], clauses 7.7.1, 7.7.4 and 7.7.5  ISUP-SIP/Basic call/ Receipt of Reset circuit message (RSC), Circuit group reset message						
155 reference							
	(GRS) or Circuit group blocking	y messayi	e (CGD) with	i trie iriaic	Cation naroware failure		
SIP selection	Uleffied						
criteria							
ISUP selection							
criteria							
Test purpose	Ensure that the SUT after rece						
	sending a INVITE message wi						
	message on receipt GRS mess	•		•	•		
	<ul> <li>the SUT shall send a BYE</li> </ul>	request T	he GRS is r	not encap	sulated.		
SIP parameter							
values							
ISUP parameter							
values							
Comments	ISUP/BICC		SUT		SIP-I		
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)		
	ACM	+		+	180 Ringing(ACM)		
	ANM ← 200 OK INVITE(ANM)						
	→ ACK						
	GRS	<b>→</b>		<b>→</b>	BYE(REL#31)		
	GRA	+		+	200 OK BYE(RLC)		

TP309012	SIP reference: RFC 32	261 [4]		ISUP reference:		
			Q.1912.5 [	1], cl	auses 7.7.1, 7.7.4 and 7.7.5	
TSS reference	ISUP-SIP/Basic call/ Receipt of Reset circuit message (RSC), Circuit group reset message (GRS) or Circuit group blocking message (CGB) with the indication hardware failure					
	oriented	y message	(CGB) WITH THE	inuic	Callott Hardware Tallure	
SIP selection criteria						
ISUP selection criteria						
Test purpose	Ensure that the SUT after receiving the IAM with the complete called party number, sending a INVITE message on receipt GRS message after an early dialogue with the SIP message defined with the SIP_MESSAGE_VA has been established:  • the SUT shall send a CANCEL request The GRS is not encapsulated.					
SIP parameter values						
ISUP parameter values						
Comments	ISUP/BICC		SUT		SIP-I	
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)	
	ACM	<b>+</b>		+	SIP_MESSAGE_VA(ACM)	
	GRS	<b>↑</b>				
	GRA ←					
	→ CANCEL					
				+	200 OK CANCEL	
				<del>-</del>	487 Request terminated	
				<b>→</b>	ACK	

Table 18

	Values for test purpose TP309012					
VA	SIP MESSAGE_VA					
VA_1	180 Ringing					
VA_2	183 Session Progress					

TP309013	SIP reference: RF	C 3261 [4]	I,	SUP reference:			
				lauses 7.7.1, 7.7.4 and 7.7.5			
TSS reference	ISUP-SIP/Basic call/ Receipt of Reset circuit message (RSC), Circuit group reset message (GRS) or Circuit group blocking message (CGB) with the indication hardware failure						
	oriented	cking message (	CGB) with the ind	ication hardware failure			
SIP selection criteria							
ISUP selection criteria							
Test purpose	Ensure that the SUT after receiving more than one IAM's sending an INVITE message for each call association on receipt of a GRS message were the Range Parameter value is bigger than "1":  the SUT shall send a BYE requests for each call association The GRS is not encapsulated.						
SIP parameter values	BYE1 contains the CSeq						
ISUP parameter values		-					
Comments	ISUP/BICC		SUT	SIP-I			
	IAM	→	<b>→</b>	INVITE1(IAM)			
	ACM	+	+	180 Ringing(ACM)			
	ANM	<b>←</b>	<b>←</b>	200 OK INVITE(ANM)			
			<b>→</b>	ACK			
	IAM	<b>→</b>	<b>→</b>	INVITE2(IAM)			
	ACM	+	+	180 Ringing(ÁCM)			
	ANM	+	+	200 OK INVITE(ANM)			
			<b>→</b>	ACK			
	GRS	<b>→</b>					
	GRA	<del>(</del>					
			<b>→</b>	BYE1(REL#31)			
			+	200 OK BYE(RLC)			
			<b>→</b>	BYE2(REL#31)			
			+	200 OK BYE(RLC)			

## 5.2.2.9.3 Receipt of Circuit group blocking message (CGB)

TP3090014	SIP reference: RFC 32	261 [4]	_	SUP reference: , clauses 7.7.1, 1) and 7.7.4		
TSS reference	ISUP-SIP/Basic call/ Receipt of Reset circuit message (RSC), Circuit group reset message (GRS) or Circuit group blocking message (CGB) with the indication hardware failure oriented					
SIP selection criteria						
ISUP selection criteria						
Test purpose	Ensure that the SUT after receiving the IAM but before an INVITE has been sent on receipt of CGB message Circuit Group Supervision Message Type Indicator coded as "hardware failure oriented":  • no action is required on the SIP side other than to terminate local procedures if any are in progress.					
SIP parameter values						
ISUP parameter values	CGB(hardware failure oriented)					
Comments	ISUP/BICC   SUT   SIP-I					
	CGBA	7				

TP309015	SIP reference: RFC 3261 [4]	_	SUP reference: ], clauses 7.7.1 and 7.7.4			
TSS reference	ISUP-SIP/Basic call/ Receipt of Reset circuit r (GRS) or Circuit group blocking message (CG oriented	nessage (RSC)	, Circuit group reset message			
SIP selection criteria						
ISUP selection criteria						
Test purpose	Ensure that the SUT after receiving the IAM with the complete called party number, sending an INVITE message on receipt CGB message Circuit Group Supervision Message Type Indicator coded as "hardware failure oriented" before a SIP MESSAGE_VA response message has been received:  • the SUT shall hold the CGB message until a SIP 200 OK response has been received;  • the SUT shall send a CANCEL request The CGB is not encapsulated.					
SIP parameter values						
ISUP parameter values	CGB(hardware failure oriented)					
Comments	ISUP/BICC SL IAM → CGB →	T →	SIP-I INVITE(IAM)			
	CGBA ← SIP_MESSAGE_VA  → CANCEL					
		<b>← ← →</b>	200 OK CANCEL 487 Request terminated ACK			

Table 19

	Values for test purpose TP309015						
VA	SIP MESSAGE_VA						
VA_1	100 Trying						
VA_2	180 Ringing						
VA_3	183 Session Progress						

TP309016	SIP reference: RFC 3261 [4]		= = =	SUP reference: clauses 7.7.1 3) and 7.7.4			
TSS reference	ISUP-SIP/Basic call/ Receipt of Reset circuit message (RSC), Circuit group reset message (GRS) or Circuit group blocking message (CGB) with the indication hardware failure oriented						
SIP selection criteria							
ISUP selection criteria							
Test purpose	Ensure that the SUT after receiving the IAM with the complete called party number, sending a INVITE message on receipt CGB message Circuit Group Supervision Message Type Indicator coded as "hardware failure oriented" before a 200 OK response message has been received:  • on subsequently receiving 200 OK INVITE messages, the SUT shall send an ACK for the 200 OK INVITE and subsequently send a BYE request after the ACK has been sent The CGB is not encapsulated.						
SIP parameter values							
ISUP parameter values	CGB(hardware failure oriented)						
Comments	ISUP/BICC	SU		SIP-I			
	IAM →		→ ←	INVITE(IAM) 100 Trying			
	CGB →			100 Trying			
	CGBA ←		<b>→</b>	CANCEL			
			<b>←</b>	200 OK INVITE(CON)			
			<b>→</b>	ACK			
			<b>←</b>	200 OK CANCEL			
			<b>→</b>	BYE(REL#31)			
			<b>←</b>	200 OK BYE(RLC)			

TP309017	SIP reference: RFC	3261 [4]		-	SUP reference: 1], clauses 7.7.1 and 7.7.4	
TSS reference	ISUP-SIP/Basic call/ Receipt (GRS) or Circuit group blockin oriented			nessage (RSC)	, Circuit group reset message	
SIP selection criteria						
ISUP selection criteria						
Test purpose	Ensure that the SUT after receiving the IAM with the complete called party number, sending a INVITE message with the complete called party number, sending a INVITE message on receipt CGB message Circuit Group Supervision Message Type Indicator coded as "hardware failure oriented" <b>after</b> a 200 OK response message has been received:  • the SUT shall send a BYE request The CGB is not encapsulated.					
SIP parameter values						
ISUP parameter values	CGB(hardware failure oriente	ed)				
Comments	ISUP/BICC		SU		SIP-I	
	IAM	<b>→</b>		→	INVITE(IAM)	
	ACM	+		+	180 Ringing(ACM)	
	ANM         ←         200 OK INVITE(ANM)           →         ACK					
		<u> </u>				
	CGB	<b>→</b>		<b>→</b>	BYE(REL#31)	
	CGBA	+		<b>+</b>	200 OK BYE(RLC)	

TP309018	SIP reference: RFC 3261 [4	4]	-	SUP reference:		
			Q.1912.5 [ <sup>*</sup>	1], clauses 7.7.1 and 7.7.4		
TSS reference	ISUP-SIP/Basic call/ Receipt of Reset circuit message (RSC), Circuit group reset message (GRS) or Circuit group blocking message (CGB) with the indication hardware failure oriented					
SIP selection criteria						
ISUP selection criteria						
Test purpose	Ensure that the SUT after receiving the IAM with the complete called party number, sending a INVITE message on receipt CGB message Circuit Group Supervision Message Type Indicator coded as "hardware failure oriented" <b>after</b> an early dialogue with the SIP message defined with the SIP_MESSAGE_VA has been established:  • the SUT shall send a CANCEL request The CGB is not encapsulated.					
SIP parameter values		•				
ISUP parameter values	CGB(hardware failure oriented)					
Comments	ISUP/BICC	SU	Т	SIP-I		
	IAM →		→	INVITE(IAM)		
	ACM ←		+	SIP_MESSAGE_VA(ACM)		
	CGB →					
	CGBA ←					
			<b>→</b>	CANCEL		
			+	200 OK CANCEL		
			+	487 Request terminated		
			→	ACK		

Table 20

Values for test purpose TP309018					
VA	VA SIP MESSAGE_VA				
VA_1	180 Ringing				
VA_2	183 Session Progress				

TP309019	SIP reference: RF	C 3261 [4]		SUP reference:			
				lauses 7.7.1, 7.7.4 and 7.7.5			
TSS reference	(GRS) or Circuit group blocking message (CGB) with the indication hardware failure						
OID I	oriented						
SIP selection criteria							
ISUP selection							
criteria							
Test purpose	Ensure that the SUT after receiving more than one IAM's sending an INVITE message for each call association on receipt of a CGB message Circuit Group Supervision Message Type Indicator coded as "hardware failure oriented" were the Range and Status Parameter value is bigger than "1":  • the SUT shall send a BYE requests for each call association The CGB is not encapsulated.						
SIP parameter	BYE1 contains the CSeq of INVITE1						
values	BYE2 contains the CSeq of INVITE2						
ISUP parameter	CGB(hardware failure oriented)						
values	,	,					
Comments	ISUP/BICC		SUT	SIP-I			
	IAM	<b>→</b>	<b>→</b>	INVITE1(IAM)			
	ACM	+	+	180 Ringing(ACM)			
	ANM	+	+	200 OK INVITE(ANM)			
			<b>→</b>	ACK			
	IAM	<b>→</b>	<b>→</b>	INVITE2(IAM)			
	ACM	+	+	180 Ringing(ACM)			
	ANM	+	+	200 OK INVITE(ANM)			
			<b>→</b>	ACK			
	CGB	<b>→</b>					
	CGBA	+					
			<b>→</b>	BYE1(REL#31)			
			+	200 OK BYE(RLC)			
			<b>→</b>	BYE2(REL#31)			
			+	200 OK BYE(RLC)			

## 5.2.2.10 Receipt of Confusion message

TP310001	SIP ref	erence: RFC 3261	[4]		ISUP reference:		
TSS reference	Q.1912.5 [1], clause A.1.1.3  ISUP-SIP/ISUP Messages for special consideration / Confusion message						
SIP selection criteria	1001 011 71001	Mossages for ope	olar corrolat	Jiun	on y comución moccago		
ISUP selection criteria							
Test purpose	Ensure that the SUT after receiving the IAM with the complete called party number and contains an unknown parameter, sending a INVITE message with the complete called party number and encapsulated IAM as received  Ensure that when the succeeding node discards an unknown parameter and send back a Confusion message if indicated in the parameter compatibility information and the sending of a Confusion message is requested, the CFN message encapsulated in a 183 Session Progress is sent.  Ensure ISUP message is transported through the SIP network encapsulated in the 183 Session Progress.						
SIP parameter values	183 Session Progress with encapsulated CFN						
ISUP parameter values	CFN						
	ISUP				SIP-I		
	IAM	→		<b>→</b>	INVITE(IAM with unknown parameter)		
	CFN	+		<b>←</b>	183 Session Progress(CFN)		
	ACM	<del>(</del>		<del>(</del>	180 Ringing(ACM)		
	ANM	+		<b>←</b>	200 OK INVITE(ANM)		
				<b>→</b>	ACK		
	Communication						
	REL	→		<b>→</b>	BYE(REL)		
	RLC	<del>(</del>		<del>(</del>	200 OK BYE(RLC)		

## 5.2.2.11 Receipt of "Suspend" or "Resume" message

TP311001	SIP reference: RFC 3261 [4]			ISUP reference: Q.1912.5 [1], clause A.1.1.3			
TSS reference	ISUP-SIP/ISUP Messages for special consideration/Receipt of <b>Suspend</b> message						
SIP selection criteria							
ISUP selection criteria							
Test purpose	Ensure that the SUT after receiving the IAM with the complete called party number, sending a INVITE message with the complete called party number, on receipt of a Suspend initiated by the network:  • ensure that the ISUP message is transported through the SIP network encapsulated in the INFO message;  • ensure that the called subscriber can successfully clear back and reanswer the call.						
SIP parameter	Should that the dahed dubbonbor our dubboolding block and realismer the dah.						
values							
ISUP parameter values							
Comments	ISUP/BICC		SU	JT	SIP-I		
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)		
	ACM	+		+	180 Ringing(ACM)		
	ANM	+		+	200 OK INVITE(ANM)		
				<b>→</b>	ACK		
	Conversation						
	SUS	+		+	INFO(SUS)		
				<b>→</b>	200 OK INFO		
	RES	+		+	INFO(RES)		
				<b>→</b>	200 OK INFO		
	Conversation						
	REL	<b>→</b>		<b>→</b>	BYE(REL)		
	RLC	+		+	200 OK BYE(RLC)		

#### 5.2.2.12 Receipt of a Blocking message

TP312001	SIP reference: RFC 326	1 [4]	ISUP reference: Q.1912.5 [1], clause A.1.1.3.1				
TSS reference	ISUP-SIP/ISUP Messages for sp	ecial conside	ration/Receip	t of a Blocking message			
SIP selection criteria	-			-			
ISUP selection criteria							
Test purpose	Ensure that the blocking/unblock messages is not encapsulated w			ectly initiated. Ensure the BLO			
SIP parameter values							
ISUP parameter values							
Comments	ISUP/BICC	SU	JT	SIP-I			
	BLO	<b>→</b>					
	BLA	<del>(</del>					
	UBL	<b>→</b>					
	UBA	<del>(</del>					

TP312002	SIP reference: RFC 3261 [4]			ISUP reference: Q.1912.5 [1], clause A.1.1.3.1				
TSS reference	ISUP-SIP/ISUP Messages for special consideration/Receipt of a Blocking message							
SIP selection								
criteria								
ISUP selection								
criteria								
Test purpose	can be correctly initiated.	Ensure that the blocking from both ends; removal of blocking from one end can be correctly initiated.  Ensure the BLO messages is not encapsulated within SIP messages.						
SIP parameter								
values								
ISUP parameter								
values								
Comments	ISUP/BICC		SUT	SIP-I				
	BLO ÷	<b>&gt;</b>						
	BLA	-						
	BLO	-						
	BLA =	•						
	UBL -	•	<del></del>					
	UBA	-	•					

TP312003	SIP reference: RFC 32	61 [4]	ISUP reference:				
	Q.1912.5 [1], clause A.1.1.3.1						
TSS reference	ISUP-SIP/ISUP Messages for s	pecial conside	ration/Receip	t of a Blocking message			
SIP selection							
criteria							
ISUP selection criteria							
Test purpose	CGB and CGU sent						
	Ensure that the SUT is able to r						
	and on a Circuit group unblocki						
	Ensure the CGB / CGU message	jes are not end	capsulated wit	thin SIP messages.			
SIP parameter							
values							
ISUP parameter							
values							
Comments	ISUP	SU	JT	SIP-I			
	CGB	<b>→</b>					
	CGBA ←						
	CGU	<b>→</b>					
	CGUA	+					

TP312004	SIP reference: RFC	3261 [4]		UP reference: [1], clause A.1.1.3.1					
TSS reference	ISUP-SIP/ISUP Messages for special consideration/Receipt of a Blocking message								
SIP selection criteria		·							
ISUP selection criteria									
Test purpose	Ensure that the SUT on recemessages, discards the ISU		ch is received en	capsulated within SIP					
SIP parameter values									
ISUP parameter values									
Comments	ISUP	SU	JT <b>←</b>	SIP-I INFO(CGB)					

TP312005	SIP reference: RF	C 3261 [4]		Q.1912	ISUP reference: 1.5 [1], clause A.1.1.3.1 I [i.11], clause 1.3.2.4
TSS reference	ISUP-SIP/ISUP Messages	for special c	onsideration	/Receipt	of a Blocking message
SIP selection criteria					
ISUP selection criteria					
Test purpose	Ensure that a received IAN	/I will unblock	a remotely	blocked o	circuit.
SIP parameter values					
ISUP parameter values					
Comments	ISUP		SUT		SIP-I
	BLO	<b>→</b>			
	BLA	+			
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)
	ACM	+		+	180 Ringing(ACM)
	ANM	+		+	200 OK INVITE(ANM)
				<b>→</b>	ACK
	REL	<b>→</b>		<b>→</b>	BYE(REL)
	RLC	+		+	200 OK BYE(RLC)

#### 5.2.2.13 Receipt of a user part test message

TP313001	SIP reference: RFC 3	261 [4]	Q.1912	SUP reference: 1.5 [1], clause A.1.1.3.1 [i.11], clause 1.3.2.4
TSS reference	ISUP-SIP/ISUP Messages for	special consid	eration/Receipt	of a user part test message
SIP selection criteria				
ISUP selection criteria	PICS 4/22			
Test purpose	Ensure that on receipt of a us part available message. Ensure that the user part test	•	· ·	vill respond by sending a user vithin SIP messages.
SIP parameter values		<u> </u>		
ISUP parameter values				
Comments	ISUP	S	UT	SIP-I
	UPT	<b>→</b>		
	UPA	+		

TP313002	SIP reference: RFC 3	3261 [4]		SUP reference: 5 [1], clause A.1.1.3.1					
TSS reference	ISUP-SIP/ISUP Messages for special consideration/Receipt of a user part test message								
SIP selection criteria		·	·	-					
ISUP selection criteria	PICS 4/22								
Test purpose	Ensure that the SUT is able to	Ensure that the SUT is able to send a user part test message.							
SIP parameter values									
ISUP parameter values									
Comments	ISUP	SU	JT	SIP-I					
	UPT	+							
	UPA	<b>→</b>							

TP313003	SIP reference: RFC 3261 [	4]		P reference: 1], clause A.1.1.3.1			
TSS reference	ISUP-SIP/ISUP Messages for spec	ial consider	ation/Receipt of a	user part test message			
SIP selection criteria							
ISUP selection criteria	PICS 4/22						
Test purpose	T4 Waiting to receive a response to a user part test message.  Ensure that the SUT is able to restart the availability test procedure after expiry of timer T4.						
SIP parameter							
values							
ISUP parameter							
values							
Comments	ISUP	SU	Γ	SIP-I			
	UPT <b>←</b>						
	T4 expiry						
	UPT <b>←</b>						
	UPA →	_		·			

#### 5.2.2.14 Segmentation

TP314001	SIP reference	SIP reference: RFC 3261 [4]			ISUP reference: Q.1912.5 [1], clause A.1.1.3.1			
TSS reference	ISUP-SIP/ISUP Mes	sages for specia	al conside	ration/Receipt	of a user part test message			
SIP selection criteria								
ISUP selection criteria								
Test purpose	Ensure that a call ca direction.	ın be successful	ly complet	ed if segment	ation applies in forward			
SIP parameter values	information will be se	INVITE - encapsulated IAM: Optional Forward call indicator absent or set to "no additional information will be sent"  No action takes place on the SIP side						
ISUP parameter values	IAM: optional forward message SGM: optional parar		additional	information wi	Il be sent in a segmentation			
Comments	ISUP		SUT	•	SIP-I			
	IAM	<b>→</b>						
	SGM	<b>→</b>		<b>→</b>	INVITE(IAM)			
	ACM	+		+	180 Ringing(ACM)			
	ANM	+		+	200 OK INVITE(ANM)			
				→	ACK			
			Conversa	ation				
	REL	<b>→</b>	•	→	BYE(REL)			
	RLC	+		+	200 OK BYE			

# 5.3 Test purposes for the Supplementary Services

### 5.3.1 Calling Line Identification Presentation (CLIP)

TP401001	SIP reference: RFC	3261	[4]		I	SUP reference:
				Q.19	12.5 [	1], clauses 7.1.3 and B.1
TSS reference	ISUP-SIP-ISUP/SS/CLIP					
SIP selection						
criteria						
ISUP selection						
criteria						
Test purpose	Calling Party number netwo	rk prov	rided, transf	erred in C	D-MGC	CF
	_ ,,,,,					
	Ensure that the SUT can su					
	the screening indicator set to		ork provide	ed" and th	e pres	sentation restricted indicator
CID neversates	set to "presentation allowed	•				
SIP parameter values						
	1000					
ISUP parameter	IAM;					
values	Calling party number para	meter				
	Address signals = PIXIT1	100410				
	Numbering plan indicator =		204415			
	Nature of address indicator	= '0000	0011'B			
	Screening indicator = '11'B				IOOID	
0	presentation restricted indic	ator = p			,00B	
Comments	ISUP		SU	<u> </u>		SIP-I
	IAM	<b>→</b>			<b>→</b>	INVITE(IAM)
	ACM	+			+	180 Ringing(ACM)
	ANM	+			+	200 OK INVITE(ANM)
					<b>→</b>	ACK
			Convers	ation		
	REL	<b>→</b>			<b>→</b>	BYE(REL)
	RLC	<b>+</b>			+	200 OK BYE(RLC)

TP401002	SIP reference: RFC	3261	[4]	Q.191		SUP reference: 1], clauses 7.1.3 and B.1		
TSS reference	ISUP-SIP-ISUP/SS/CLIP							
SIP selection criteria								
ISUP selection criteria								
Test purpose	Calling Party number networkprovided, Calling Subaddress transferred in O-MGCF  Ensure that the SUT can successfully transmit a call having a calling party number with							
	the screening indicator set the containing the calling sub-	o "netv	vork provide					
SIP parameter values								
ISUP parameter values	IAM; Calling party number para Address signals = PIXIT1 Numbering plan indicator = Nature of address indicator Screening indicator = '11'B presentation restricted indicator Access transport parameter	'001'B = '0000 cator =	presentatio	address in		ition		
Comments	ISUP		SU	Γ		SIP-I		
	IAM	<b>→</b>			<b>→</b>	INVITE(IAM)		
	ACM	+			+	180 Ringing(ACM)		
	ANM	+			<del>-</del>	200 OK INVITE(ANM)		
					<b>→</b>	ACK		
			Convers	ation				
	REL	<b>→</b>			<b>→</b>	BYE(REL)		
	RLC	<b>←</b>			<b>←</b>	200 OK BYE(RLC)		

TP401003	SIP reference: RFC	3261	[4]	Q.19	_	SUP reference: 1], clauses 7.1.3 and B.1		
TSS reference	ISUP-SIP-ISUP/SS/CLIP							
SIP selection								
criteria								
ISUP selection criteria								
Test purpose	Calling Party Number user provided transferred in O-MGCF  Ensure that the SUT can successfully transmit a call having the calling party number with the screening indicator set to "user provided, verified and passed" and the presentation restricted indicator set to "presentation allowed".							
SIP parameter values	·							
ISUP parameter	IAM;							
values	Calling party number para Address signals = PIXIT1 Numbering plan indicator = Nature of address indicator Screening indicator = '01'B presentation restricted indic	'001'B = '0000	0011'B	allowed	, '00'E	3		
Comments	ISUP		SUT			SIP-I		
	IAM	<b>→</b>			<b>→</b>	INVITE(IAM)		
	ACM	+			+	180 Ringing(ACM)		
	ANM	+			+	200 OK INVITE(ANM)		
					<b>→</b>	ACK		
			Conversat	ion				
	REL	<b>→</b>			<b>→</b>	BYE(REL)		
	RLC	+		-	+	200 OK BYE(RLC)		

TP401004	SIP reference: RFC	3261	[4]	0 1012	ISUP reference: 5 [1], clauses 7.1.3 and B.1
TSS reference	ISUP-SIP-ISUP/SS/CLIP			Q.1912.	o [1], clauses 7.1.5 and b.1
SIP selection criteria	ICCT CII ICCT /CC/CLII				
ISUP selection criteria					
Test purpose	Calling Party Number user party Surface that the SUT can surface the screening indicator set transport parameter contains	ccessfi o "user	ully transmit provided, v	a call having erified and p	g a <b>calling party number</b> with
SIP parameter values					
ISUP parameter	IAM;				
values	Calling party number para Address signals = PIXIT1 Numbering plan indicator = Nature of address indicator Screening indicator = '01'B Presentation restricted indic	'001'B = '0000 ator =	0011'B presentatior	,	
	Access transport parameter	includ			
Comments	ISUP		SUT		SIP-I
	IAM	<b>→</b>		<b>→</b>	
	ACM	+		+	10011119119(71011)
	ANM	+		+	=00 0::::::=(/::::://
				<b>→</b>	ACK
			Conversa	ation	
	REL	1		<b>→</b>	BYE(REL)
	RLC	+		+	200 OK BYE(RLC)

TP401005	SIP reference: RFC	3261	[4]		15	SUP reference:					
				Q.191	2.5 [	1], clauses 7.1.3 and B.1					
TSS reference	ISUP-SIP-ISUP/SS/CLIP	ISUP-SIP-ISUP/SS/CLIP									
SIP selection											
criteria											
ISUP selection											
criteria											
Test purpose	Calling Party Number network provided and additional calling party number user provided not verified transferred in O-MGCF.										
	Ensure that the SUT can sur number with the screening containing the additional cal provided, not verified" and the allowed".	indicate ling pa	or set to "ne rty number	twork prov with the so	/ided creen	and a <b>generic number</b> ing indicator set to "user					
SIP parameter values											
ISUP parameter values	IAM;										
	Calling party number para	meter									
	Address signals = PIXIT1 Numbering plan indicator = ' Nature of address indicator screening indicator = '11'B Presentation restricted indic	= '0000'		n allowed,	'00'B						
	Generic number paramete	r									
	Address signals = PIXIT2	-									
	Numbering plan indicator = '	001'B									
	Nature of address indicator : Screening indicator = '00'B										
	Presentation restricted indic	ator =			'00'B						
Comments	ISUP		SUT			SIP-I					
	IAM	<u>→</u>			<u>→</u>	INVITE(IAM)					
	ACM	<u>+</u>			<u>+</u>	180 Ringing(ACM)					
	ANM	+			<del>(</del>	200 OK INVITE(ANM)					
			0		<b>→</b>	ACK					
	DEL		Convers			DVE(DEL)					
	REL	<u>→</u>			<u>→</u>	BYE(REL)					
	RLC	_			<del>-</del>	200 OK BYE(RLC)					

TP401006	SIP reference: RFC	3261	[4]			SUP reference:	
				Q.19	12.5 [	1], clauses 7.1.3 and B.1	
TSS reference	ISUP-SIP-ISUP/SS/CLIP						
SIP selection							
criteria							
ISUP selection							
criteria							
Test purpose	Calling Party Number netwo verified and calling subaddre				ng par	ty number user provided not	
	Ensure that the SUT can such with the screening indicator additional calling party number verified and an access trans	set to ' er with	'network pronter the screen	ovided", a ing indica	gene ator se	et to "user provided, not	
SIP parameter							
values							
ISUP parameter values	IAM;						
	Calling party number para	meter					
	Address signals = PIXIT1 Numbering plan indicator = ' Nature of address indicator = Screening indicator = '11'B		0011'B				
	Generic number paramete	r					
	Address signals = PIXIT2  Numbering plan indicator = '001'B  Nature of address indicator = '0000011'B  Screening indicator = '00'B						
Comments	Access transport parameter ISUP	includ	SU1			SIP-I	
	IAM	<b>→</b>	30.		<b>→</b>	INVITE(IAM)	
	ACM	<del>′</del>			<del>′</del>	180 Ringing(ACM)	
	ANM	<del>-</del>			+	200 OK INVITE(ANM)	
		_			<u> </u>	ACK	
			Conversa	ation		7.0.0	
	REL	<b>→</b>	33313		<b>→</b>	BYE(REL)	
	RLC	<del></del>			<del>′</del>	200 OK BYE(RLC)	
	INLO	•	l			200 ON DIL(NLO)	

TP401007	SIP reference: RF	C 3261 [4]	Q.		ISUP reference: 1], clauses 6.1.3.6 and B.1
TSS reference	ISUP-SIP-ISUP/SS/CLIP			_	
SIP selection criteria					
SUP selection criteria	PICS 6/8				
Test purpose	Calling party number disca		· ·		the I-MGCF.  bilateral agreements, if the
	• .	•			•
•	address presentation restr	•			•
SIP parameter values ISUP parameter values	• .	icted indicate			•
/alues SUP parameter /alues	address presentation restr	icted indicate			•
/alues SUP parameter /alues	IAM; No calling party number	icted indicate	or is set to "pr		on allowed" (see note).
values SUP parameter values	IAM; No calling party number	parameter	or is set to "pr	esentati	on allowed" (see note).
/alues SUP parameter /alues	IAM; No calling party number SIP-I INVITE(IAM)	parameter	or is set to "pr	esentati	on allowed" (see note).  ISUP IAM
/alues SUP parameter /alues	IAM; No calling party number SIP-I INVITE(IAM) 180 Ringing(ACM)	parameter	or is set to "pr	esentati	ISUP IAM ACM
values SUP parameter values	IAM; No calling party number SIP-I INVITE(IAM) 180 Ringing(ACM) 200 OK INVITE(ANM)	parameter	or is set to "pr	esentati	ISUP IAM ACM
values SUP parameter	IAM; No calling party number SIP-I INVITE(IAM) 180 Ringing(ACM) 200 OK INVITE(ANM)	parameter	SUT	esentati	ISUP IAM ACM

TP401008	SIP reference: RF	C 3261	[4]		ISUP reference:				
				Q.1912.5 [	1], clauses 6.1.3.6 and B.1				
TSS reference	ISUP-SIP-ISUP/SS/CLIP								
SIP selection criteria									
ISUP selection criteria	PICS 6/7								
Test purpose		calling pa	arty number	in the <b>generi</b>	agreements in the I-MGCF  c number is discarded in case d indicator is set to				
	"presentation allowed".	ine addit	oo proociii	mon restricted	a maleator is set to				
SIP parameter									
values									
ISUP parameter	IAM;								
values	No calling party number	paramet	ter						
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	<b>→</b>		→	IAM				
	180 Ringing(ACM)	+		+	ACM				
	200 OK INVITE(ANM)	+		+	ANM				
	ACK	<b>→</b>							
		Conversation							
	BYE(REL)	<b>→</b>		→	REL				
	200 OK BYE(RLC)	+		<del>-</del>	RLC				
	teral agreement prohibits the			• • •	mber in any case. The test with ted" is a CLIR test.				

TP401009	SIP reference: RF	C 3261	[4]		ISUP reference:
				Q.1912.5 [ <sup>-</sup>	1], clauses 6.1.3.6 and B.1
TSS reference	ISUP-SIP-ISUP/SS/CLIP				
SIP selection					
criteria					
ISUP selection	PICS 6/6				
criteria					
Test purpose	available in the I-MGCF	arty num	<b>nber</b> is omitte		indicator is set to address not ess presentation restricted
SIP parameter					
values					
ISUP parameter values					
Comments	SIP-I		SUT		ISUP
	INVITE(IAM)	<b>→</b>		→	IAM
	180 Ringing(ACM)	+		+	ACM
	200 OK INVITE(ANM)	+		+	ANM
	ACK	<b>→</b>			
			Conversa	ntion	
	BYE(REL)	<b>→</b>		<b>→</b>	REL
	200 OK BYE(RLC)	+		+	RLC

TP401010	SIP reference: RF	C 3261	[4]		ISUP reference:
				Q.1912.5 [	1], clauses 6.1.3.6 and B.1
TSS reference	ISUP-SIP-ISUP/SS/CLIP				
SIP selection criteria					
ISUP selection criteria					
Test purpose	Calling party number is se	ent as red	ceived		
SIP parameter values	Ensure that the calling par number in the encapsulate		er in the ser	nt IAM is gene	rated from the calling party
ISUP parameter values					
Comments	SIP-I		SUT		ISUP
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM
	180 Ringing(ACM)	+		+	ACM
	200 OK INVITE(ANM)	+		+	ANM
	ACK	<b>→</b>			
			Convers	ation	
	BYE(REL)	<b>→</b>		<b>→</b>	REL
	200 OK BYE(RLC)	+		+	RLC

TP401011	SIP reference: RI	FC 3261			ISUP reference: 1], clauses 6.1.3.6 and B.1
TSS reference	ISUP-SIP-ISUP/SS/CLIP				<u>,, , , , , , , , , , , , , , , , , , ,</u>
SIP selection					
criteria					
ISUP selection					
criteria					
Test purpose	Additional calling party nu	ımber is s	ent as received		
SIP parameter values	additional calling party nu		ic cricapsulateu	i/ uvi.	
values					
Comments	SIP-I		SUT		ISUP
	INVITE(IAM)	<b>→</b>		→	IAM
	180 Ringing(ACM)	+		+	ACM
	200 OK INVITE(ANM)	+		<b>←</b>	ANM
	ACK	→			
			Conversation		
	BYE(REL)	<b>→</b>		<b>→</b>	REL
	200 OK BYE(RLC)	+		+	RLC

TP401012	SIP reference: RF	C 3261	[4]		ISUP reference:
				Q.1912.5 [ <sup>*</sup>	1], clauses 6.1.3.6 and B.1
TSS reference	ISUP-SIP-ISUP/SS/CLIP				
SIP selection					
criteria					
ISUP selection					
criteria					
Test purpose	Additional calling party nu	ımber is d	omitted in the	I-MGCF	
	Ensure that if the calling			sent, then an	additional calling party
	number in a <b>generic num</b>				
SIP parameter		ıumber ir	ncluded in the	e encapsulate	d IAM, additional calling party
values	number included.				
ISUP parameter	IAM;				
values	No calling party number	parame	eter		
	No generic number para	meter			
Comments	SIP-I		SUT		ISUP
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM
	180 Ringing(ACM)	+		+	ACM
	200 OK INVITE(ANM)	+		+	ANM
	ACK	<b>→</b>			
			Conversa	tion	
	BYE(REL)	<b>→</b>		<b>→</b>	REL
	200 OK BYE(RLC)	+		+	RLC

TP401013	SIP reference: RFC	3261	[4]	Q.191	2.5 [1	SUP reference: ], clauses 6.1.3.6 and B.1, 31 [i.2], clause 3.5
TSS reference	ISUP-SIP-ISUP/SS/CLIP					
SIP selection						
criteria						
ISUP selection	PICS 1/7					
criteria						
Test purpose	Convert the Calling party nu	ımber i	nto the inte	rnational	forma	t in the I-MGCF
	Ensure that the SUT can co setting the nature of addres address presentation restrict	s indica	ator to "inter	national i	numbe	
SIP parameter values						
ISUP parameter	IAM;					
values	Calling party number para Address signals = PIXIT1 Numbering plan indicator = Nature of address indicator Screening indicator = '11'B Presentation restricted indic	'001'B = '0000		allowed,	'00'B	
Comments	SIP-I		SUT			ISUP
	INVITE(IAM)	<b>→</b>			<b>→</b>	IAM
	180 Ringing(ACM)	+			+	ACM
	200 OK INVITE(ANM)	+			+	ANM
	ACK	<b>→</b>				
			Convers	ation		
	BYE(REL)	<b>→</b>			<b>→</b>	REL
	200 OK BYE(RLC)	+			+	RLC

TP401014	SIP reference: RFC	SIP reference: RFC 3261 [4] ISUP reference: Q.1912.5 [1], clauses 6.1.3.6 and B.1,								
						31 [i.2], clause 3.5				
TSS reference	ISUP-SIP-ISUP/SS/CLIP									
SIP selection										
criteria										
ISUP selection	PICS 1/7									
criteria										
Test purpose	Converting the additional ca	alling pa	arty number	to interna	tiona	I format in the I-MGCF				
	Ensure that the SUT can co	nvert tl	ne additiona	al calling pa	arty n	number in the <b>generic</b>				
						ndicator is "ISDN Telephony",				
	setting the nature of addres									
	address presentation restric	ted ind	icator and t	he screeni	ing in	dicator transparently.				
SIP parameter										
values										
ISUP parameter	IAM									
values	Calling party number para	meter								
	Address signals = PIXIT1									
	Numbering plan indicator =									
	Nature of address indicator	= '0000'	)100'B							
	Screening indicator = '11'B			-11	0010					
	Presentation restricted indic		presentation	allowed,	00.B					
	Generic number paramete Address signals = PIXIT2	er								
	Numbering plan indicator =	'001'B								
	Nature of address indicator		1100'B							
	Screening indicator = '00'B	_ 0000	7100 B							
	Presentation restricted indic	ator =r	resentation	allowed.	00'B					
Comments	SIP-I		SU		-	ISUP				
	INVITE(IAM)	<b>→</b>	30		<b>→</b>	IAM				
	180 Ringing(ACM)	<del>-</del>			+	ACM				
	200 OK INVITE(ANM)	+			+	ANM				
	ACK	<b>→</b>								
			Convers	ation						
	BYE(REL)	<b>→</b>			<b>→</b>	REL				
	200 OK BYE(RLC)	+			+	RLC				

TP401015	SIP reference: RI	FC 3261	[4]	Q.1912.5 [	ISUP reference: 1], clauses 6.1.3.6 and B.1, 731 [i.2], clause 3.5
TSS reference	ISUP-SIP-ISUP/SS/CLIP				
SIP selection criteria					
ISUP selection criteria	PICS 1/7 AND NOT PICS	1/9			
Test purpose	Discarding an incomplete  Ensure that the calling panumber incomplete indica	rty numb	er is discard	ed, if it is rece	F sived with the calling party
SIP parameter values					
ISUP parameter values	IAM: No calling party number	parame	ter		
Comments	SIP-I		SUT	•	ISUP
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM
	180 Ringing(ACM)	+		+	ACM
	200 OK INVITE(ANM)	+		+	ANM
	ACK	<b>→</b>			
			Convers	ation	
	BYE(REL)	<b>→</b>		<b>→</b>	REL
	200 OK BYE(RLC)	+		+	RLC
NOTE: This test	case is only applicable with	an ITU i	mplementat	ion.	•

TP401016	SIP reference: RFC	3261	[4]	Q.191	2.5 [1]	SUP reference:  , clauses 6.1.3.6 and B.1, 31 [i.2], clause 3.5					
TSS reference	ISUP-SIP-ISUP/SS/CLIP										
SIP selection											
criteria											
ISUP selection	PICS 1/8										
criteria											
Test purpose	Converting the calling party number to national format, if necessary in the O-MGCF  Ensure that the country code in the address signals of the calling party number is removed if it is the network's own country code. The nature of address indicator shall be										
						on restricted indicator shall be					
SIP parameter	INVITE: encapsulated IAM										
values	Calling party number	<b>er</b> para	meter								
	Address signals = PI										
	Numbering plan indic		'001'B								
	Nature of address inc			'B							
	Screening indicator =	= '11'B									
	Presentation restricted	ed indic	cator = pres	entation a	llowe	d, '00'B					
ISUP parameter	IAM										
values	Calling party number param	eter									
	Address signals = PIXIT1										
	Numbering plan indicator =										
	Nature of address indicator	= '0000	)100'B								
	Screening indicator = '11'B										
	Presentation restricted indic	ator =			.00.R						
Comments	SIP-I		SUT			ISUP					
	IAM	<u>→</u>			<u>→</u>	INVITE(IAM)					
	ACM	<u>+</u>			<u>+</u>	180 Ringing(ACM)					
	ANM	<del>-</del>			<u>+</u>	200 OK INVITE(ANM)					
					<b>→</b>	ACK					
			Convers	ation							
	REL	<b>→</b>			<b>→</b>	BYE(REL)					
	RLC	+			+	200 OK BYE(RLC)					

TP401017	SIP reference: RFC 3261 [4] ISUP reference:										
			Q.1912	.5 [1], clauses 6.1.3.6 and B.1, Q.731 [i.2], clause 3.5							
TSS reference:	ISUP-SIP-ISUP/SS/CLIP										
SIP selection											
criteria											
ISUP selection	PICS 1/8										
criteria											
Test purpose	Converting the additional calling party number to national format, if necessary in the O-MGCF										
	Ensure that the country code in the address signals of the <b>generic number</b> coded as an "additional calling party number", if the numbering plan indicator is "ISDN Telephony" is removed if it is the network's own country code. The nature of address indicator shall be set to "national (significant) number". The address presentation restricted indicator shall be										
SIP parameter	transferred transparently.  INVITE: encapsulated IAM										
values	Generic number para	meter									
valuoo	Address signals = PIXI										
	Numbering plan indica										
	Nature of address indic		11'B								
	Screening indicator = '	11'B									
	Presentation restricted	indicator = pi	esentation al	lowed, '00'B							
ISUP parameter	IAM;										
values	Calling party number param	eter									
	Address signals = PIXIT1										
	Numbering plan indicator = '00										
	Nature of address indicator =	'0000100'B									
	Screening indicator = '11'B			loo!B							
	Presentation restricted indicat	or = presenta	tion allowed,	,00,B							
	Generic number parameter										
	Address signals = PIXIT2 Numbering plan indicator = '00	04'D									
	Nature of address indicator = 0										
	Screening indicator = '00'B	0000100B									
	Presentation restricted indicat	or – presenta	tion allowed	'00'B							
Comments	SIP-I		UT	ISUP							
		<b>→</b>		→ INVITE(IAM)							
		<u>-</u>		← 180 Ringing(ACM)							
		<del>(</del>		€ 200 OK INVITE(ANM)							
	→ ACK										
		Conve	rsation								
	REL	<b>→</b>		→ BYE(REL)							
		<del>(</del>		€ 200 OK BYE(RLC)							

TP401018	SIP reference: RF0	3261	[4]	ISUP reference: Q.1912.5 [1], clauses 6.1.3.6 and B.1, Q.731 [i.2], clause 3.5				
TSS reference	ISUP-SIP-ISUP/SS/CLIP							
SIP selection criteria								
ISUP selection criteria	PICS 1/7							
Test purpose	Adding a prefix to an international calling party number in the I-MGCF  Ensure that a prefix is added to the calling party number and the nature of address indicator is set to "unknown" (see note).							
SIP parameter values								
ISUP parameter values								
Comments	SIP-I		SUT	<b>-</b>	ISUP			
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM			
	180 Ringing(ACM)	+		<b>+</b>	ACM			
	200 OK INVITE(ANM)	+		+	ANM			
	ACK	<b>→</b>						
			Convers	ation				
	BYE(REL)	<b>→</b>		→	REL			
	200 OK BYE(RLC)	+		+	RLC			
NOTE: The codin	ng "unknown" is a national op	tion (@	2).					

TP401019	SIP reference: RF	C 3261	[4]	Q.1912.5 [1	ISUP reference: I], clauses 6.1.3.6 and B.1, /31 [i.2], clause 3.5				
TSS reference	ISUP-SIP-ISUP/SS/CLIP								
SIP selection									
criteria									
ISUP selection criteria									
Test purpose	Handling of address presentation restricted indicator set to "address not available" in the I-MGCF  Ensure that the screening indicator shall be set to "network provided" if the address presentation restricted indicator in <b>calling party number</b> is set to "address not available" (see note).								
SIP parameter	available (See Hote).								
values									
ISUP parameter	IAM:								
values	Calling party number party Address signals = PIXIT1								
	Numbering plan indicator :								
	Nature of address indicate								
	Screening indicator = '11'E				_				
	Presentation restricted ind	licator =		vailable, '10'E					
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM				
	180 Ringing(ACM)	+		<b>+</b>	ACM				
	200 OK INVITE(ANM)	+		+	ANM				
	ACK	<b>→</b>	L						
			Conversa						
	BYE(REL)	<b>→</b>		<b>→</b>	REL				
	200 OK BYE(RLC)	<b>+</b>	L	←	RLC				
NOTE: The cod	ing "address not available" is	a natior	nal option (@	).					

TP401020	SIP reference: RFC	3261	[4]		ISUP reference:			
				Q.1912.5	[1], clauses 7.1.3 and B.1			
TSS reference	ISUP-SIP-ISUP/SS/CLIP							
SIP selection criteria								
ISUP selection criteria								
Test purpose  SIP parameter	O-MGCF: Calling party number and Additional calling party number not received  Ensure that when the SUT has received an IAM message whereby Calling Party Number parameter and the Generic Number are not applicable.  Sends an INVITE message without the "P-Asserted-Identity header field", the "From header field" set to "anonymous@anonymous.invalid". No Privacy header field included.  INVITE: No P-Asserted Identity, From Header: anonymous@anonymous.invalid							
values		,,		<u>a,</u>	<u> </u>			
ISUP parameter	IAM; no Calling party number	er and	no Additiona	al calling party	number present			
values								
Comments	ISUP		SUT	-	SIP-I			
	IAM	<b>→</b>		→	INVITE(IAM)			
	ACM	+		+	180 Ringing(ACM)			
	ANM	+		+	200 OK INVITE(ANM)			
				→	ACK			
			Conversa	ation				
	REL	<b>→</b>		<b>→</b>	BYE(REL)			
	RLC	+		+	200 OK BYE(RLC)			

TP401021	SIP reference: RFC	3261	Γ <b>Δ</b> 1		ISUP reference:				
11 101021		020.		Q.1912.5	[1], clauses 7.1.3 and B.1				
TSS reference:	ISUP-SIP-ISUP/SS/CLIP				L-1,				
SIP selection									
criteria									
ISUP selection									
criteria									
Test purpose	O-MGCF: Setting of From h	eader							
					hereby Calling Party Number				
					pplicable whereby the address				
	presentation restriction para			esentation all	owed" and the Nature of				
	Address Indicator is set to N			orted Identity	booder field" a "Frem booder				
					header field", a "From header of the additional calling party				
					e MGCF is located in the format				
	"+"CC+NDC+SN and no "Pi				e MGCI is located in the format				
SIP parameter					eader contains the value of the				
values	additional calling party numl								
ISUP parameter	IAM; no Calling party number		ent. Addition	al calling par	tv number present				
values	, , , , , , , , , , , , , , , , , , , ,		.,	31	, ,				
Comments	ISUP		SUT		SIP-I				
	IAM	<b>↑</b>		→	INVITE(IAM)				
	ACM	4		+	180 Ringing(ACM)				
	ANM ← 200 OK INVITE(ANM)								
				→	ACK				
			Conversa	ation					
	REL	<b>→</b>		<b>→</b>	BYE(REL)				
	RLC	4		+	200 OK BYE(RLC)				

TP401022	SIP reference: RFC	3261	[4]		SUP reference:							
		Q.1912.5 [1], clauses 7.1.3 and B.1										
TSS reference	ISUP-SIP-ISUP/SS/CLIP											
SIP selection												
criteria												
ISUP selection												
criteria												
Test purpose	O-MGCF: Setting of P-Asserted header header  Ensure that when the SUT has received an IAM message, the Calling Party Number is applicable whereby the Nature of Address Indicator is set to NoAS_VALUE the APRI is set to presentation allowed and the Generic Number is not applicable  Sends an INVITE message with:  • the "P-Asserted-Identity header field" where the user portion of the addr-spec is set to value of the calling party number and the country code is set to the country where the MGCF is located in the format "+"CC+NDC+SN;  • a "From header field" where the "addr-spec" is set to where the user portion of the addr-spec is set to value of the additional calling party number and the country code is set to the country where the MGCF is located in the format "+"CC+NDC+SN;  • without "Privacy Header field" or "id" is not included.											
SIP parameter	INVITE: P-Asserted-Identity				mber. Privacv=id. From							
values	header derived from the add				, ,							
ISUP parameter	IAM; Calling party number is	prese	nt and no Addition	nal callin	g party number is present							
values					la-a-							
Comments	ISUP		SUT		SIP-I							
	IAM	<u>→</u>		<b>→</b>	INVITE(IAM)							
	ACM	<u>+</u>		<del>-</del>	180 Ringing(ACM)							
	ANM	+		<u>+</u>	200 OK INVITE(ANM)							
				→	ACK							
			Conversation									
	REL	<u>→</u>		<b>→</b>	BYE(REL)							
	RLC	+		+	200 OK BYE(RLC)							

TP401023	SIP reference: RFC	3261	[4]		Į:	SUP reference:					
			-	Q.19	12.5 [	1], clauses 7.1.3 and B.1					
TSS reference	ISUP-SIP-ISUP/SS/CLIP										
SIP selection											
criteria											
ISUP selection											
criteria											
Test purpose	O-MGCF: Setting of P-Asserted header header and From header										
	Ensure that when the SUT has received an IAM message, the <b>Calling Party Number is applicable</b> whereby the Nature of Address Indicator is set to NoAS_VALUE the APRI is set to <b>presentation allowed</b> and the <b>Generic Number is applicable</b>										
	to value of the calling po the MGCF is located in • "From header field" " wheater field " " wheater field the calling posterior to the calling pos	heade arty nu the for here th numbe format	mber and the mat "+"CC+ e user portion and the community "+"CC+ND	ne country -NDC+SN on of the ountry coc C+SN;	y code 1; addr-s de is s	coortion of the addr-spec is set to set to the country where spec is set to value of the et to the country where the					
SIP parameter	INVITE: P-Asserted-Identity										
values	From header derived from the										
ISUP parameter values	IAM; Calling party number a	nd Add	ditional calli	ng party r	numbe	er are present					
Comments	ISUP		SU			SIP-I					
	IAM	<b>→</b>			<b>→</b>	INVITE(IAM)					
	ACM	+			+	180 Ringing(ACM)					
	ANM ← 200 OK INVITE(ANM)										
					<b>→</b>	ACK					
			Convers	ation							
	REL	<b>→</b>			<b>→</b>	BYE(REL)					
	RLC	<b>←</b>			+	200 OK BYE(RLC)					

	Values for test purpose TP401021, TP401022, TP401023							
NoAS_VALUE	ISUP parameter values	SIP parameter values:						
VA_01	IAM	INVITE						
	NoAS_VALUE: "national (significant) number"(NDC+SN)	FHf_Addr_SPEC_ID: CC (of the country where the IWU is located) is added to the Generic Number Address Signals and then mapped to user portion of URI scheme						
VA_02	IAM NoAS_VALUE: "international number" ("+"CC+NDC+SN)	FHf_Addr_SPEC_ID: the complete GenericNumber Address Signals is mapped to the user portion of URI scheme used						

TP401024	SIP reference: RFC	3261	[4]	0.404	-	SUP reference:					
TCC vofevence	Q.1912.5 [1], clauses 6.1.3.6 and B.1										
TSS reference SIP selection	ISUP-SIP-ISUP/SS/CLIP										
criteria ISUP selection	DIO0 4/7										
criteria	PICS 1/7										
Test purpose											
rest purpose	Calling party derived from the P-Asserted-Identity international number										
	Ensure when no calling part	h, num	oer is includ	lad in tha	oncar	osulated IAM or the calling					
						o the P-Asserted-Identity, no					
	Privacy value "id" received.		ilatoa ii tivi ii	3 1101 1001	itioai t	o the radorted identity, he					
	Send an IAM the calling par		ber is derive	ed from S	SIP P-/	Asserted-Identity, The					
	Address Presentation Restr										
SIP parameter	INVITE: P-Asserted identity user portion is in the format "+"CC+NDC+SN, Privacy value										
values	"id" is not present	•				,					
ISUP parameter	IAM message with the Calli	ng par	ty number	paramet	er cod	ded					
values	Address signals = nu	ımber d	derived from	n SIP P-A	sserte	ed-Identity					
	Screening indicator :			d							
	Number Incomplete										
	Numbering plan indi										
	Address Presentatio			itor = Pre	sentat	tion allowed					
0	NoAS: "international	numbe				loup					
Comments	SIP-I		SU	l	<b>→</b>	ISUP					
	INVITE(IAM)	<b>→</b>				IAM					
	180 Ringing(ACM)				<b>+</b>	ACM					
	200 OK INVITE(ANM)	<b>←</b>			+	ANM					
	ACK	7	Convers	otion							
	DVE(DEL)	<b>→</b>	Convers	ation	_	DEL					
	BYE(REL)	_			<b>→</b>	REL					
	200 OK BYE(RLC)	<b>←</b>			+	RLC					

TP401025	SIP reference: RFC	3261	[4]			SUP reference:				
				Q.191	2.5 [1	], clauses 6.1.3.6 and B.1				
TSS reference	ISUP-SIP-ISUP/SS/CLIP									
SIP selection criteria										
ISUP selection criteria	NOT PICS 1/7									
Test purpose	Calling party derived from the P-Asserted-Identity national (significant) number									
	Ensure when no calling party number is included in the encapsulated IAM or the calling party number in the in the encapsulated IAM is not identical to the P-Asserted-Identity, no Privacy value "id" received.  Send an IAM the calling party number is derived from SIP P-Asserted-Identity. The Address Presentation Restricted Indicator is set to Presentation allowed.									
SIP parameter	INVITE: P-Asserted identity	user p	ortion is in t	he format	"+"C(	C+NDC+SN, Privacy value				
values	"id" is not present	•				,				
ISUP parameter	IAM message with the Calli	ng par	ty number	paramete	er coc	led				
values	Address signals = nu									
	Screening indicator =	= netwo	ork provided			•				
	Number Incomplete	Indicate	or = PIXIT							
	Numbering plan indic	cator =	ISDN numb	ering plan	n					
	Address Presentation	n Restr	ricted Indica	tor = Pres	sentat	ion allowed				
	NoAS: "national (sign	nificant	) number"							
Comments	SIP-I		SUT	Γ		ISUP				
	INVITE(IAM)	<b>→</b>			<b>→</b>	IAM				
	180 Ringing(ACM)	+			+	ACM				
	200 OK INVITE(ANM)	+			+	ANM				
	ACK	<b>→</b>								
			Convers	ation						
	BYE(REL)	<b>→</b>			<b>→</b>	REL				
	200 OK BYE(RLC)	+			+	RLC				

TP401026	SIP reference: RFC	3261 [4]	]	0.4040	-	SUP reference:					
TSS reference	ISUP-SIP-ISUP/SS/CLIP			Q.1912.	ວ <u>[</u> 1	], clauses 6.1.3.6 and B.1					
SIP selection	IOUT"OIT"IOUT/OO/OLIF										
criteria											
ISUP selection	DIO0 4/7										
	PICS 1/7										
criteria	A -l-liti l lliv	l			1-						
Test purpose	Additional calling party numb	ber deriv	ea trom ti	ne ⊢rom nea	adei	r international number					
	Ensure when no additional calling party number is included in the encapsulated IAM or the additional calling party number in the in the encapsulated IAM is not identical to the From header field, no Privacy value "id" received.  Send an IAM the additional calling party number is derived from From header field. The Address Presentation Restricted Indicator is set to Presentation allowed.										
SIP parameter	INVITE: P-Asserted identity	user por	tion is in t	he format "-	+"C(	C+NDC+SN, Privacy value					
values	"id" is not present										
ISUP parameter	IAM message with the Addi										
values	Address signals = nu				hea	der					
	Screening indicator =			ot verified"							
	Number Incomplete I										
	Numbering plan indic										
	Address Presentation			tor = Prese	ntat	ion allowed					
	NoAS: "international	<u>number"</u>				T					
Comments	SIP-I		SU			ISUP					
	INVITE(IAM)	→			<del>}</del>	IAM					
	180 Ringing(ACM)	+			<u> </u>	ACM					
	200 OK INVITE(ANM)	<b>←</b>		•	<u> </u>	ANM					
	ACK	→									
			Convers	ation							
	BYE(REL)	<b>→</b>	-	-	<del>}</del>	REL					
	200 OK BYE(RLC)	+		•	<b>F</b>	RLC					

TP401027	SIP reference: RFC	3261	[4]			SUP reference:			
				Q.19 <sup>-</sup>	12.5	[1], clauses 6.1.3.6, B.1			
TSS reference:	ISUP-SIP-ISUP/SS/CLIP								
SIP selection criteria									
ISUP selection criteria	NOT PICS 1/7								
Test purpose	Additional calling party number derived from the From header national (significant) number								
	additional calling party numbers header field, no Privacy values and IAM the additional	per in ti ue "id" calling	he in the en received. party numb	capsulated er is derive	d IAM ed fro	the encapsulated IAM or the I is not identical to the From om From header field. The			
SIP parameter		Address Presentation Restricted Indicator is set to Presentation allowed.  INVITE: P-Asserted identity user portion is in the format "+"CC+NDC+SN, Privacy value							
values	"id" is not present	usei p		ne ionnat	+ 00	STINDOTOIN, I livacy value			
ISUP parameter	IAM message with the Addi	tional	Calling par	tv numbe	r par	ameter coded			
values	Address signals = nu								
	Screening indicator =								
	Number Incomplete I								
	Numbering plan indic			ering plan	1				
	Address Presentation					ion allowed			
	NoAS: "national (sign								
Comments	SIP-I		SUT			ISUP			
	INVITE(IAM)	<b>→</b>			<b>→</b>	IAM			
	180 Ringing(ACM)	+			<del>(</del>	ACM			
	200 OK INVITE(ANM)	+			<b>←</b>	ANM			
	ACK	<b>→</b>							
			Convers	ation					
	BYE(REL)	<b>→</b>			<b>→</b>	REL			
	200 OK BYE(RLC)	+			<del>(</del>	RLC			

# 5.3.2 Calling Line Identification Restriction (CLIR)

TP402001	SIP reference: RFC	3261	[4]		ISUP reference: 5 [1], clauses 7.1.3 and B.1, 31 [i.2], clause 4.5.2.1.1
TSS reference:	ISUP-SIP-ISUP/SS/CLIR				
SIP selection criteria					
ISUP selection criteria					
Test purpose	Calling party number network	rk prov	ided presen	tation restric	ted is passed.
		o "netw	ork provide		g a <b>calling party number</b> with ddress presentation restricted
SIP parameter values					
ISUP parameter	IAM;				
values	Calling party number para Screening indicator = '11'B Address presentation restric Generic number paramete	ted pa		)1'B	
	Access transport paramet			the subaddi	ess information
Comments	ISUP	CI 13 II	SU1		SIP-I
	IAM	<b>→</b>		-	
	ACM	<b>←</b>		+	` ′
	ANM	+		+	
				<b>→</b>	ACK
			Convers	ation	
	REL	<b>→</b>		<b>→</b>	BYE(REL)
	RLC	+		+	200 OK BYE(RLC)

TP402002	SIP reference: RFC 3	3261 [	4]	Q.1912.5 [	SUP reference: 1], clauses 7.1.3 and B.1, [i.2], clause 4.5.2.1.1						
TSS reference	ISUP-SIP-ISUP/SS/CLIR										
SIP selection											
criteria											
ISUP selection criteria											
Test purpose	Ensure that the SUT can pass screening indicator set to "net	Restricted calling party number (network provided) with calling sub-address Ensure that the SUT can pass transparently a call having a calling party number with the screening indicator set to "network provided", the address presentation restricted indicator set to "presentation restricted" and an access transport parameter containing the calling									
SIP parameter values											
ISUP parameter	IAM;										
values	Calling party number param Screening indicator = '11'B	eter									
	Address presentation restricte	ed par	ameter = '01'E	3							
	Generic number parameter										
	Access transport parameter	r inclu	ding subaddre	ess informat	ion						
Comments	ISUP		SUT		SIP-I						
	IAM	<b>→</b>		→	INVITE(IAM)						
		<b>←</b>		<b>←</b>	180 Ringing(ACM)						
	ANM	<b>←</b>		<b>←</b>	200 OK INVITE(ANM)						
				→	ACK						
			Conversation								
		<b>→</b>		→	BYE(REL)						
	RLC	<b>←</b>		+	200 OK BYE(RLC)						

TP402003	SIP reference: RFC	3261		1912.5 [	SUP reference: 1], clauses 7.1.3 and B.1, [i.2], clause 4.5.2.1.1
TSS reference:	ISUP-SIP-ISUP/SS/CLIR				
SIP selection					
criteria					
ISUP selection criteria					
Test purpose	Restricted calling party nur Ensure that the SUT can pas screening indicator set to "us presentation restricted indica	s tran er pro	sparently a call havided, verified and	ving the	calling party number with the d' and the address
SIP parameter					-
values					
ISUP parameter	IAM				
values	Calling party number paran	neter			
	Address signals = PIXIT1				
	Numbering plan indicator = '0	001'B			
	Nature of address indicator =	: '0000	011'B		
	Screening indicator = '01'B				
	Address presentation restrict	ed pa			
Comments	ISUP		SUT		SIP-I
	IAM	<b>→</b>		→	INVITE(IAM)
	ACM	+		<b>←</b>	180 Ringing(ACM)
	ANM	+		+	200 OK INVITE(ANM)
				<b>→</b>	ACK
			Conversation		
	REL	<b>→</b>		<b>→</b>	BYE(REL)
	RLC	+		<b>←</b>	200 OK BYE(RLC)

TP402004	SIP reference: RF0	3261	[4]		2.5 [ <sup>*</sup>	SUP reference: 1], clauses 7.1.3 and B.1, [i.2], clause 4.5.2.1.1		
TSS reference	ISUP-SIP-ISUP/SS/CLIR							
SIP selection								
criteria								
ISUP selection criteria								
Test purpose	Restricted calling party number (user provided, verified and passed) with calling sub-address Ensure that the SUT can pass transparently a call having a calling party number with the screening indicator set to "user provided, verified and passed", the address presentation restricted indicator set to "presentation restricted" and an access transport parameter containing the calling sub-address.							
SIP parameter								
values								
ISUP parameter	IAM							
values	Calling party number para	ameter						
	Address signals = PIXIT1	100410						
	Numbering plan indicator = Nature of address indicator		0011'D					
	Screening indicator = '01'B	= 0000	шір					
	Address presentation restrict	ctad na	rameter – 'O	11'R				
	Access transport parame				rmati	on		
Comments	ISUP	101 11101	SUT		mac	SIP-I		
	IAM	<b>→</b>			<b>→</b>	INVITE(IAM)		
	ACM	+			+	180 Ringing(ACM)		
	ANM	+			+	200 OK INVITE(ANM)		
					<b>→</b>	ACK		
			Conversa	ation				
	REL	<b>→</b>			<b>→</b>	BYE(REL)		
	RLC	+			<b>←</b>	200 OK BYE(RLC)		

TP402005	SIP reference: RFC	3261	[4]	ISUP reference: Q.1912.5 [1], clauses 7.1.3 and B.1,							
				Q.731 [i.2], clause 4.5.2.1.1							
TSS reference	ISUP-SIP-ISUP/SS/CLIR										
SIP selection											
criteria											
ISUP selection											
criteria											
Test purpose	Ensure that the SUT can pa with the screening indicator the additional calling party n	Restricted calling party number (user provided, not verified) Ensure that the SUT can pass transparently a call having a default calling party number with the screening indicator set to "network provided" and a generic number containing the additional calling party number with the screening indicator set to "user provided, not verified", both having the address presentation restricted indicator set to "presentation"									
SIP parameter values	roomotou :										
ISUP parameter	IAM:										
values	Calling party number para Address signals = PIXIT1 Numbering plan indicator = Nature of address indicator Screening indicator = '11'B Address presentation restric Generic number paramete Address signals = PIXIT2 Numbering plan indicator = Nature of address indicator Screening indicator = '00'B Address presentation restric	001'B = '0000 eted pa r '001'B = '0000	rameter = '0								
Comments	ISUP		SU	T SIP-I							
	IAM	<b>→</b>		→ INVITE(IAM)							
	ACM	+		← 180 Ringing(ACM)							
	ANM	+		← 200 OK INVITE(ANM)							
				→ ACK							
		•	Convers	sation							
	REL	<b>→</b>		→ BYE(REL)							
	RLC	+		← 200 OK BYE(RLC)							

TP402006	SIP reference: RFC	3261	[4]		2.5 [1	SUP reference: I], clauses 7.1.3 and B.1, [i.2], clause 4.5.2.1.1					
TSS reference	ISUP-SIP-ISUP/SS/CLIR										
SIP selection											
criteria											
ISUP selection											
criteria											
Test purpose	Restricted calling party number (user provided, not verified) with calling sub-address										
	Ensure that the SUT can pa with the screening indicator additional calling party numl verified", both having the ad restricted" and an access tr	set to ' ber with Idress p	"network pront the screer presentation	ovided", a ing indica restricted	<b>gene</b> tor se	et to "user provided, not cator set to "presentation					
SIP parameter			-								
values											
ISUP parameter	IAM;										
values	Calling party number para Address signals = PIXIT1 Numbering plan indicator = Nature of address indicator Screening indicator = '11'B Address presentation restric Generic number paramete Address signals = PIXIT2 Numbering plan indicator = Nature of address indicator Screening indicator = '00'B Address presentation restric Access transport paramet	'001'B = '0000 eted pa er '001'B = '0000	0011'B rameter = '0 0011'B rameter = '0 uding subad	ı1'B dress info	ormati						
Comments	ISUP		SUT			SIP-I					
	IAM	<b>→</b>			<u>→</u>	INVITE(IAM)					
	ACM	<b>+</b>			<del>(</del>	180 Ringing(ACM)					
	ANM	+			<del>(</del>	200 OK INVITE(ANM)					
			0	-1!	<b>→</b>	ACK					
			Convers	ation							
	REL	<b>→</b>			<u>→</u>	BYE(REL)					
	RLC	+	1		+	200 OK BYE(RLC)					

TP402007	SIP reference: RF	C 3261	[4]	ISUP reference: Q.1912.5 [1], clauses 6.1.3.6 and B.1, Q.731 [i.2], clause 4.5.2.1.1				
TSS reference	ISUP-SIP-ISUP/SS/CLIR							
SIP selection criteria								
ISUP selection criteria	PICS 6/4							
Test purpose	Discarding the calling pa	arty nun	nber if the p	resentation is	s restricted			
	Ensure that the calling pa address presentation rest	-			on restricted.			
SIP parameter values								
ISUP parameter	IAM;							
values	No Calling party number	r parame	eter					
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM)	<b>→</b>		→	IAM			
	180 Ringing(ACM)	+		<b>←</b>	ACM			
	200 OK INVITE(ANM)	+		+	ANM			
	ACK	<b>→</b>						
			Conversa	tion				
	BYE(REL)	→		→	REL			
	200 OK BYE(RLC)	+		+	RLC			

TP402008	SIP reference: RF	C 3261	[4]		ISUP reference:					
		Q.1912.5 [1], clauses 6.1.3.6 and B.1, Q.731 [i.2], clause 4.5.2.1.1								
TSS reference	ISUP-SIP-ISUP/SS/CLIR									
SIP selection criteria										
ISUP selection criteria	PICS 6/4 AND PICS 6/5									
Test purpose	Ensure that the additional	Discarding the additional calling party number if the presentation is restricted Ensure that the additional calling party number in the generic number is discarded in case of bilateral agreements, if the address presentation restricted indicator is set to								
SIP parameter values										
ISUP parameter values	IAM; No Calling party number No Generic number para	-	eter							
Comments	SIP-I		SU	Г	ISUP					
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM					
	180 Ringing(ACM)	+		<b>←</b>	ACM					
	200 OK INVITE(ANM)	+		+	ANM					
	ACK									
			Convers	ation						
	BYE(REL)	<b>→</b>		<b>→</b>	REL					
	200 OK BYE(RLC)	+		+	RLC					

TP402009	SIP reference: RI	FC 3261	[4]	Q.1912.5 [ <sup>*</sup>	ISUP reference: 1], clauses 6.1.3.6 and B.1, [i.2], clause 4.5.2.1.1				
TSS reference:	ISUP-SIP-ISUP/SS/CLIR								
SIP selection criteria									
ISUP selection criteria									
Test purpose		I-MGCF: Calling party number received in the INVITE is sent in the IAM  Ensure that the calling party number contained in the encapsulated IAM is unchanged sent in the ISUR IAM							
SIP parameter									
values									
ISUP parameter									
values									
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	<b>→</b>		→	IAM				
	180 Ringing(ACM)	+		+	ACM				
	200 OK INVITE(ANM)	+		+	ANM				
	ACK	<b>→</b>							
			Conversa	tion					
	BYE(REL)	<b>→</b>		<b>→</b>	REL				
	200 OK BYE(RLC)	+		+	RLC				

TP402010	SIP reference: RF	SIP reference: RFC 3261 [4]				SUP reference: ], clauses 6.1.3.6 and B.1, [i.2], clause 4.5.2.1.1
TSS reference:	ISUP-SIP-ISUP/SS/CLIR					[],
SIP selection						
criteria						
ISUP selection						
criteria						
Test purpose	I-MGCF: Additional calling	g party ni	umber recei	ved in the l	INVI	TE is sent in the IAM
SIP parameter values	Ensure that the additional unchanged sent in the ISL		earty numbe	r contained	l in t	he encapsulated IAM is
values Comments	SIP-I		SU	г		ISUP
Comments	INVITE(IAM)	<b>→</b>	- 50		<b>→</b>	IAM
	180 Ringing(ACM)	+			<del></del>	ACM
	200 OK INVITE(ANM)	+			<del>-</del>	ANM
	ACK	<b>→</b>				
			Convers	ation		
	BYE(REL)	<b>→</b>			<b>→</b>	REL
	200 OK BYE(RLC)	+			<del>(</del>	RLC

TP402011	SIP reference: RFC	3261	[4]	Q.1912.5	ISUP reference: [1], clauses 7.1.3 and B.1		
TSS reference	ISUP-SIP-ISUP/SS/CLIR						
SIP selection							
criteria							
ISUP selection criteria							
Test purpose	Ensure that when the SUT has received an IAM message, the Calling Party Number is applicable whereby the Nature of Address Indicator is set to NoAS_VALUE the APRI is set to presentation restricted and the Generic Number is not applicable  Sends an INVITE message with:  the "P-Asserted-Identity header field" where the user portion of the addr-spec is set to value of the additional calling party number and the country code is set to the country where the MGCF is located in the format "+"CC+NDC+SN;  a "From header field" set to "anonymous@anonymous.invalid".  and with "Privacy Header field" set to "id".						
SIP parameter values	INVITE: P-Asserted-Identity,	, From	Header: an	onymous@ai	nonymous.invalid, Privacy "id"		
ISUP parameter	IAM: Calling party number. N	lo add	itional callir	g party numb	er		
values				. ,			
Comments	ISUP		SUT	Γ	SIP-I		
	IAM	<b>→</b>		→	INVITE(IAM)		
	ACM	+		+	180 Ringing(ACM)		
	ANM	+		+	200 OK INVITE(ANM)		
				→	ACK		
			Convers	ation			
	REL	<b>→</b>		→	BYE(REL)		
	RLC	+		+	200 OK BYE(RLC)		

TP402012	SIP reference: RFC	3261 [	4]	0.40	-	SUP reference:			
TSS reference	Q.1912.5 [1], clauses 7.1.3 and B.1 ISUP-SIP-ISUP/SS/CLIR								
SIP selection	IOOT OIL IOOT/OO/OLIIV								
criteria									
ISUP selection									
criteria									
Test purpose	<ul> <li>Ensure that when the SUT has received an IAM message, the Calling Party Number is applicable whereby the Nature of Address Indicator is set to NoAS_VALUE the APRI is set to presentation restricted and the Generic Number is applicable.</li> <li>Sends an INVITE message with:</li> <li>the "P-Asserted-Identity header field", where the user portion of the addr-spec is set to value of the calling party number and the country code is set to the country where the MGCF is located in the format "+"CC+NDC+SN;</li> <li>"From header field" where the user portion of the addr-spec is set to value of the additional calling party number and the country code is set to the country where the MGCF is located in the format "+"CC+NDC+SN;</li> <li>and with "Privacy Header field" is set to "id".</li> </ul>								
SIP parameter values	INVITE: P-Asserted-Identity,	From	header field	d, Privacy	"Id"				
ISUP parameter	IAM: Calling party number. a	ddition	al calling n	arty numł	ner				
values	" will calling party frameon a	aditioi	ar canning p	arty mann	,01				
Comments	ISUP		SU	Ī		SIP-I			
	IAM	<b>→</b>			<b>→</b>	INVITE(IAM)			
	ACM	+			+	180 Ringing(ACM)			
	ANM	+			+	200 OK INVITE(ANM)			
	→ ACK								
			Convers	ation					
	REL	<b>→</b>			<b>→</b>	BYE(REL)			
	RLC	<b>←</b>			+	200 OK BYE(RLC)			

	Values for test purpose TP	2401012
NoAS_VALUE	ISUP parameter values	SIP parameter values:
VA_01	IAM NoAS_VALUE: "national (significant) number"(NDC+SN)	INVITE FHf_Addr_SPEC_ID: CC (of the country where the IWU is located) is added to the Generic Number Address Signals and then mapped to user
VA_02	IAM NoAS_VALUE: "international number" ("+"CC+NDC+SN)	portion of URI scheme  INVITE  FHf_Addr_SPEC_ID: the complete  GenericNumber Address Signals is  mapped to the user portion of URI scheme used.

TP402013	SIP reference: RFC	3261	[4]	0.404	-	SUP reference:				
TSS reference	Q.1912.5 [1], clauses 6.1.3.6 and B.1  ISUP-SIP-ISUP/SS/CLIR									
SIP selection	1001 -011 -1001 /00/0LIN									
criteria										
ISUP selection	PICS 1/7									
criteria	FICS 1//									
Test purpose	Ensure when no calling part	v numh	per is includ	lad in the	oncar	osulated IAM or the calling				
rest purpose	party number in the in the e									
	Privacy value "id" received.	псаръц	ilateu iAivi i	s not iden	licai ii	o the F-Asserted-Identity,				
	Send an IAM the calling par	tv num	har is dariv	ed from S	ID D.	Asserted-Identity The				
	Address Presentation Restr									
SIP parameter	INVITE: P-Asserted identity				• • • • • • • • • • • • • • • • • • • •					
values	"id" is present	иоо. р		ino ionniai		CTTECTON, Tilvady value				
ISUP parameter	IAM message with the Calli	ng par	tv number	paramete	er cod	ded				
values	Address signals = nu	ımber d	derived from	SIP P-A	sserte	ed-Identity				
	Screening indicator =					, a 1.00 mm,				
	Number Incomplete									
	Numbering plan indic			pering plai	n					
	Address Presentation					tion restricted				
	NoAS: "international	numbe	er"							
Comments	SIP-I		SU <sup>-</sup>	Τ		ISUP				
	INVITE(IAM)	<b>→</b>			<b>→</b>	IAM				
	180 Ringing(ACM)	+			+	ACM				
	200 OK INVITE(ANM)	+			+	ANM				
				_	<b>→</b>	ACK				
			Convers	ation						
	BYE(REL)	<b>→</b>			<b>→</b>	REL				
	200 OK BYE(RLC)	+			<b>←</b>	RLC				

TP402014	SIP reference: RFC	3261	[4]		I	SUP reference:				
	Q.1912.5 [1], clauses 6.1.3.6 and B.1									
TSS reference:	ISUP-SIP-ISUP/SS/CLIR									
SIP selection										
criteria										
ISUP selection	NOT PICS 1/7	NOT PICS 1/7								
criteria										
Test purpose	Ensure when no calling part									
	party number in the in the e	ncapsu	ılated IAM is	s not iden	tical to	o the P-Asserted-Identity,				
	Privacy value "id" received.									
	Send an IAM the calling par									
	Address Presentation Restr									
SIP parameter	INVITE: P-Asserted identity	user p	ortion is in t	he format	t "+"C	C+NDC+SN, Privacy value				
values	"id" is present									
ISUP parameter	IAM message with the Calli									
values	Address signals = nu				sserte	ed-Identity				
	Screening indicator =									
	Number Incomplete									
	Numbering plan indic									
	Address Presentation			tor = Pre	sentat	tion restricted				
Comments	NoAS: "national (sign	nncant	<b>'</b>	-	1	ISUP				
Comments		_	SUT		_	IAM				
	INVITE(IAM)	<b>→</b>			<b>→</b>	12. 22.2				
	180 Ringing(ACM)					ACM				
	200 OK INVITE(ANM)	<b>←</b>			+	ANM				
	ACK	7	Camurana	-4!						
	D)(E(DEL)		Convers	ation		DE!				
	BYE(REL)	<b>→</b>			<b>→</b>	REL				
	200 OK BYE(RLC)	+			<b>←</b>	RLC				

TP402015	SIP reference: RFC	3261	[4]	_		SUP reference:			
				Q.191	2.5 [1	], clauses 6.1.3.6 and B.1			
TSS reference	ISUP-SIP-ISUP/SS/CLIR								
SIP selection criteria									
ISUP selection criteria	PICS 1/7								
Test purpose	Ensure when no additional calling party number is included in the encapsulated IAM or the additional calling party number in the encapsulated IAM is not identical to the From header field, Privacy value "id" received.  Send an IAM the additional calling party number is derived from From header field. The Address Presentation Restricted Indicator is set to Presentation restricted.								
SIP parameter	INVITE: P-Asserted identity	user p	ortion is in t	he format	t "+"C(	C+NDC+SN, Privacy value			
values	"id" is present	•				,			
ISUP parameter	IAM message with the Add	itional	Calling par	ty numb	er par	ameter coded			
values	Address signals = nu Screening indicator = Number Incomplete Numbering plan indic Address Presentatio NoAS: "international	= User Indicate cator = n Restr	provided, no or = PIXIT ISDN numb icted Indica	ot verified pering pla	l" n				
Comments	SIP-I	Transc	SUT	•		ISUP			
	INVITE(IAM)	<b>→</b>		•	<b>→</b>	IAM			
	180 Ringing(ACM)	+			+	ACM			
	200 OK INVITE(ANM)	+			+	ANM			
	ACK →								
			Convers	ation					
	BYE(REL)	<b>→</b>			<b>→</b>	REL			
	200 OK BYE(RLC)	+			+	RLC			

TP402016	SIP reference: RFC	3261	[4]	O 191	-	SUP reference: I], clauses 6.1.3.6 and B.1				
TSS reference	ISUP-SIP-ISUP/SS/CLIR									
SIP selection	100. 00. 100.100.000.									
criteria										
ISUP selection	NOT PICS 1/7									
criteria										
Test purpose	Ensure when no additional calling party number is included in the encapsulated IAM or the additional calling party number in the encapsulated IAM is not identical to the From header field, Privacy value "id" received.  Send an IAM the additional calling party number is derived from From header field. The Address Presentation Restricted Indicator is set to Presentation restricted.									
SIP parameter	INVITE: P-Asserted identity	user p	ortion is in t	he format	"+"C	C+NDC+SN, Privacy value				
values	"id" is present	·				,				
ISUP parameter	IAM message with the Add	itional	Calling par	rty numbe	er pa	rameter coded				
values	Address signals = nu Screening indicator : Number Incomplete Numbering plan indic Address Presentatio NoAS: "national (sign	= User Indicate cator = n Resti	provided, no or = PIXIT ISDN numb icted Indica	ot verified pering plar	" 1					
Comments	SIP-I		SU	Γ		ISUP				
	INVITE(IAM)	<b>→</b>			<b>→</b>	IAM				
	180 Ringing(ACM)	+			+	ACM				
	200 OK INVITE(ANM)	+			+	ANM				
	ACK	<b>→</b>								
			Convers	ation						
	BYE(REL)	<b>→</b>			<b>→</b>	REL				
	200 OK BYE(RLC)	<b>←</b>			+	RLC				

# 5.3.3 Connected line identification presentation (COLP)

TP403001	SIP reference: RF	FC 3261	[4]	ISUP reference: Q.1912.5 [1], clause B.2, Q.731 [i.2], clause 5.5.2.1.1				
TSS reference	ISUP-SIP-ISUP/SS/COLF	)						
SIP selection criteria								
ISUP selection criteria								
Test purpose	Initiate COLP request							
	Ensure that the exchange the optional forward call			a call requ	esting the COLP service in			
SIP parameter values								
ISUP parameter	IAM;							
values	optional forward call inc	dicators	Connected line ic	lentity red	uest indicator = requested			
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM			
	180 Ringing(ACM)	<b>←</b>		+	ACM			
	200 OK INVITE(ANM)	+		+	ANM			
	ACK	<b>→</b>						
			Conversation	-				
	BYE(REL)	<b>→</b>		<b>→</b>	REL			
	200 OK BYE(RLC)	+		+	RLC			

TP403002	SIP reference: RF0	3261	[4]		ISUP reference: 912.5 [1], clause B.2, 1 [i.2], clause 5.5.2.1.1				
TSS reference	ISUP-SIP-ISUP/SS/COLP								
SIP selection criteria									
ISUP selection criteria									
Test purpose	Connected number (user provided, verified and passed) with connected sub-address								
	Ensure that the SUT passe screening indicator set to "v containing the connected si	erified	and passed						
SIP parameter	Containing the confected of	ab ada	000.						
values									
ISUP parameter	IAM;								
values	optional forward call indic Connected line identity requal ANM; Connected number paran Address presentation restri Nature of address indicator Numbering plan indicator = '01'B Address signals = PIXIT and an access transport pb) CON; Connected number paran Address presentation restri Nature of address indicator Numbering plan indicator = Screening indicator = '01'B Address signals = PIXIT and an access transport paran	neter cted pa = '0000' '001'B parameter cted pa = '0000' '001'B	rameter = '( 0011'B er containir rameter = '( 0011'B	00'B ng the connect					
Comments	SIP-I		SU		ISUP				
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM				
	CASE À	•	•	,					
	180 Ringing(ACM)	+		+	ACM				
	200 OK INVITE(ANM)	+		+	ANM				
	ACK	<b>→</b>							
	CASE B								
	200 OK INVITE(CON)	+		+	CON				
	ACK	<b>→</b>							
			Convers	ation					
	BYE(REL)	<b>→</b>		<b>→</b>	REL				
	200 OK BYE(RLC)	+		<b>←</b>	RLC				

TP403003	SIP reference: RFC	3261	[4]	(	Q.19	SUP reference: 12.5 [1], clause B.2, [i.2], clause 5.5.2.1.1				
TSS reference	ISUP-SIP-ISUP/SS/COLP					<u>[]</u> ,				
SIP selection										
criteria										
ISUP selection										
criteria										
Test purpose	Connected number (user provided, not verified) without connected sub-address  Ensure that the SUT passes transparently a default connected number with the screening indicator set to "network provided", a generic number containing the additional connected number with the screening indicator set to "user provided, not verified" without an access transport parameter containing the connected sub-address.									
SIP parameter	-		-							
values										
ISUP parameter	IAM;									
values	optional forward call indica	ators								
	Connected line identity reque		icator: requ	ested						
	a)	JOC 1110	ioutor. roqu	00.04						
	ANM;									
	Connected number parame									
	Address presentation restrict			0'B						
	Nature of address indicator =		)011'B							
	Numbering plan indicator = '(	001'B								
	Screening indicator = '11'B Address signals = PIXIT									
	Additional connected num	<b>her</b> nr	esent							
	Address presentation restrict			0'B						
	Nature of address indicator =									
	Numbering plan indicator = '0	001'B								
	Screening indicator = '00'B									
	Address signals = PIXIT									
	b)									
	CON;									
	Connected number parame									
	Address presentation restrict			00'B						
	Nature of address indicator =		0011'B							
	Numbering plan indicator = '0 Screening indicator = '11'B	JUID								
	Address signals = PIXIT									
	Additional connected num	<b>ber</b> pr	esent							
	Address presentation restrict			0'B						
	Nature of address indicator =	= '0000								
	Numbering plan indicator = '0	001'B								
	Screening indicator = '00'B									
	Address signals = PIXIT									
Comments	SIP-I		SUT	•		ISUP				
	INVITE(IAM)	<b>→</b>			<b>→</b>	IAM				
	CASE A			-						
	180 Ringing(ACM)	+		· · · · · · · · · · · · · · · · · · ·	+	ACM				
	200 OK INVITE(ANM)	+			+	ANM				
	ACK →									
	CASE B		T		-	laav				
	200 OK INVITE(CON)	<del>(</del>			+	CON				
	ACK	<b>→</b>	0		<u> </u>					
	DVE(DEL)	_	Convers	ation		DEL				
	BYE(REL)	<u>→</u>			<b>→</b>	REL				
	200 OK BYE(RLC) ← RLC									

TP403004	SIP reference: RFC 3	3261 [	4]	-	SUP reference:
					12.5 [1], clause B.2, [i.2], clause 5.5.2.1.1
TSS reference	ISUP-SIP-ISUP/SS/COLP			4	[],
SIP selection					
criteria					
ISUP selection	PICS 1/7				
criteria					
Test purpose	Converting the connected r				
					nnected number is removed
	if it is the network's own coun				
	"national (significant) number				ricted indicator and the
OID 1	screening indicator shall be tr			rently.	
SIP parameter	200 OK: encapsulated ANM of				
values	Connected number p			- IOOID	
	Address presentation Nature of address indi				
	Numbering plan indica			•	
	Screening indicator =				
	Address signals = PIX		_01		
ISUP parameter	IAM;				
values	optional forward call indica	tore			
	Connected line identity reque		aatari raaiia	otod	
	a)	St IIIui	cator, reque	sieu	
	ANM;				
	Connected number parame	ter			
	Address presentation restricted		ameter = '00	)'B	
	Nature of address indicator =				
	Numbering plan indicator = '0	01'B			
	Screening indicator = ISUP_S	SI			
	Address signals = CC+PIXIT				
	b)				
	CON;	40.0			
	Connected number parame Address presentation restricte		amotor - '00	אים	
	Nature of address indicator =			ТЬ	
	Numbering plan indicator = '0		100 B		
	Screening indicator = ISUP_S				
	Address signals = CC+PIXIT				
	Generic number parameter	not pr	esent		
Comments	SIP-I		SUT		ISUP
		<b>→</b>		→	IAM
	CASE A				T
	180 Ringing(ACM)	<del>(</del>		<del>-</del>	ACM
	200 OK INVITE(ANM)	<b>←</b>		+	ANM
	ACK	<b>→</b>			
	CASE B	<u> </u>			ICON
	200 OK INVITE(CON)	<b>←</b>		+	CON
	ACK	7	Converce	tion	
	DVE(DEL)	_	Conversa		DEI
	BYE(REL)	<del>→</del>		<b>→</b>	REL
	200 OK BYE(RLC)	~		7	RLC

TP403005	SIP reference: RFC	3261	[4]		-	SUP reference:			
11 403003	on reference. Ki o	3201	נדו	Q		12.5 [1], clause B.2,			
						[i.2], clause 5.5.2.1.1			
TSS reference	ISUP-SIP-ISUP/SS/COLP					[],			
SIP selection									
criteria									
ISUP selection	PICS 1/7								
criteria									
Test purpose	Converting the additional	conne	cted numbe	r to natio	nal	format, if necessary			
	Ensure that the country cod-								
	"additional connected numb								
	removed if it is the network's								
					tatio	n restricted indicator and the			
SIP parameter	screening indicator shall be 200 OK: encapsulated ANM			rentiy.					
values	additional connected num		IN						
values	Address presentation restrict		rameter – '00	)'B					
	Nature of address indicator			, 5					
	Numbering plan indicator =								
	Screening indicator = '01'B								
	Address signals = PIXIT								
ISUP parameter	IAM;								
values	optional forward call indic	ators							
	Connected line identity requ		icator: reque	sted					
	a)								
	ΑNM;								
	Connected number param		esent						
	additional connected num								
	Address presentation restric			)'B					
	Nature of address indicator		)100'B						
	Numbering plan indicator =	001B							
	Screening indicator = '01'B Address signals = CC+PIXI	т							
	Address signals = COTI IXI	•							
	b)								
	ĆON;								
	Connected number param	eter pr	esent						
	additional connected num								
	Address presentation restric			)'B					
	Nature of address indicator		)100'B						
	Numbering plan indicator =	001 B							
	Screening indicator = '01'B Address signals = CC+PIXI	т							
Comments	SIP-I		SUT			ISUP			
3	INVITE(IAM)	<b>→</b>			<del>}</del>	IAM			
	CASE A	<u> </u>		1		1			
	180 Ringing(ACM)	+		1	<del>(</del>	ACM			
	200 OK INVITE(ANM)	+		•	<del>(</del>	ANM			
	ACK	<b>^</b>							
	CASE B								
	200 OK INVITE(CON)	+		•	<del>(</del>	CON			
	ACK	<b>→</b>							
			Conversa						
	BYE(REL)	<b>→</b>			<del>)</del>	REL			
	200 OK BYE(RLC)	+		•	<u> </u>	RLC			

TP403006	SIP reference: RFC	3261	[4]	ISUP reference: Q.1912.5 [1], clause B.2, Q.731 [i.2], clause 5.5.2.1.1						
TSS reference	ISUP-SIP-ISUP/SS/COLP									
SIP selection										
criteria										
ISUP selection	PICS 1/8 AND PICS 7/5									
criteria										
Test purpose	Adding a prefix to an intern Ensure that a prefix is added indicator is set to "unknown"	to the (see r	e <b>connecte</b> note).	<b>d number</b> an	d the nature of address					
SIP parameter	200 OK INVITE with encapsu			N						
values	Connected number p									
	Address presentation Nature of address indi Numbering plan indica Screening indicator = Address signals = PIX	icator ator = '11'B	= '0000011							
ISUP parameter	ANM/CON:									
values	Connected number parame Address presentation restrict Nature of address indicator = 'Numbering plan indicator = '11'B Address signals = Prefix+PIX	ed pa : '0000 001'B		00'B						
Comments	SIP-I		SUT	r I	ISUP					
	IAM	<b>→</b>		→	INVITE(IAM)					
	CASE A		•	*						
	ACM	<del>-</del>		+	180 Ringing(ACM)					
	ANM	<del>-</del>		+	200 OK INVITE(ANM)					
				→	ACK					
	CASE B			•						
	CON	+		+						
				<b>→</b>	ACK					
			Convers	ation						
	REL	<b>→</b>		<b>→</b>						
	RLC	+		+	200 OK BYE(RLC)					
NOTE: The codi	ng "unknown" is a national opti	on (@	).							

TP403007	SIP reference: RFC 3261	4]	ISUP reference: Q.1912.5 [1], clause B.2,	
			Q.731 [i.2], clause 5.5.2.1.1	
TSS reference	ISUP-SIP-ISUP/SS/COLP			
SIP selection				
criteria				
ISUP selection	PICS 1/8 AND PICS 7/3			
criteria				
Test purpose	Discarding the connected number in case of bilateral agreements			
	Ensure that the <b>connected number</b> is discarded in case of bilateral agreements, if the			
	address presentation restricted indicator is set to "presentation allowed" (see note).			
SIP parameter	200 OK INVITE with encapsulated ANM or CON			
values	Connected number parameter			
	Address presentation restricted parameter = '00'B			
	Nature of address indicator = '0000011'B			
	Numbering plan indicator = '001'B			
	Screening indicator = '11'B			
ISUP parameter	Address signals = PIXIT			
values	optional forward call indicators			
values	Connected line identity request indicator: requested			
	a)			
	ANM			
	No Connected number parameter			
	b)			
	CON;			
	No Connected number paramete	r		
Comments	ISUP	SU.	T SIP-I	
	IAM →		→ INVITE(IAM)	
	CASE A			
	ACM ←		← 180 Ringing(ACM)	
	ANM <b>←</b>		← 200 OK INVITE(ANM)	
			→ ACK	
	CASE B			
	CON ←		← 200 OK INVITE(CON)	
			→ ACK	
		Convers	ation	
	REL →		→ BYE(REL)	
	RLC ←		← 200 OK BYE(RLC)	
NOTE: This bilat	teral agreement prohibits the transfer	ral of the co	onnected number in any case. The test with	h
the addre	ess presentation restricted indicator s	et to "prese	entation restricted" is a COLR test.	

TP403008	SIP reference: RFC	3261 [4]		Q.19	ISUP reference: 112.5 [1], clause B.2, [i.2], clause 5.5.2.1.1
TSS reference:	ISUP-SIP-ISUP/SS/COLP				
SIP selection					
criteria					
ISUP selection	PICS 1/8 AND PICS 7/4				
<u>criteria</u>					
Test purpose	Discarding the additional of Ensure that the additional coof bilateral agreements, if the "presentation allowed" (see	nnected num e address pre	oer in the <b>ge</b>	neric	<b>number</b> is discarded in case
SIP parameter	200 OK INVITE with encaps				
values	Additional Connecte				
	Address presentation Nature of address inc			)'B	
	Numbering plan indic	ator = '001'B			
	Screening indicator =				
	Address signals = PI	KIT			
ISUP parameter	IAM;				
values	optional forward call indicato	rs			
	Connected line identity requi	est indicator: ı	eauested		
	a)				
	ANM;				
	ANIVI,				
	No Connected number parar	meter			
	No Additional connected nur				
	b)	noci present			
	CON:				
	No Connected number parar	meter			
	No Additional connected nur	nber present			
Comments	ISUP		SUT		SIP-I
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)
	CASE A				
	ACM	<del>(</del>		+	180 Ringing(ACM)
	ANM	+		+	200 OK INVITE(ANM)
				<b>→</b>	ACK
	CASE B				
	CON	+		+	200 OK INVITE(CON)
				<b>→</b>	ACK
		Conv	ersation		
	REL	<b>→</b>		<b>→</b>	BYE(REL)
	RLC	+		+	200 OK BYE(RLC)
NOTE: This bilat	teral agreement prohibits the tr	ansferral of th	e additional	conne	ected number in the generic
number i	n any case.				-

TP403009	SIP reference: RF	C 3261	[4]		ISUP reference:
				Q.19	12.5 [1], clause B.2,
<del></del>				Q.731	[i.2], clause 5.5.2.1.1
TSS reference	ISUP-SIP-ISUP/SS/COLP				
SIP selection					
criteria	DIGG 4/9				
ISUP selection	PICS 1/8				
criteria	Converting the connects	d numb	or to intorn	ational forms	.4
Test purpose	Converting the connecte Ensure that the exchange				
					nal number" and can pass on
	the address presentation re				
SIP parameter	200 OK INVITE with encap				ng maleator transparently.
values	Connected number			14	
	Address presentation			eter = '00'B	
	Nature of address in				
	Numbering plan ind				
	Screening indicator				
	Address signals = 0		T		
ISUP parameter	IAM;				
values	optional forward call indi	icators			
	Connected line identity req	juest inc	licator: requ	ested	
	a)				
	ANM				
	Connected number parar				
	Address presentation restr			0'B	
	Nature of address indicato		)100'B		
	Numbering plan indicator =				
	Screening indicator = '11'B Address signals = PIXIT	)			
	Presentation restricted indi	icator –	'00'B		
	additional connected nur				
	b)	т.	000		
	CON;				
	Connected number parai	meter			
	Address presentation restr		rameter = '0	0'B	
	Nature of address indicato		0100'B		
	Numbering plan indicator =				
	Screening indicator = '11'B	3			
	Address signals = PIXIT	. ,	10015		
	Presentation restricted indi				
Commonts	additional connected nur	m <b>per</b> pr		<del>. 1</del>	leup
Comments	SIP-I	<b>→</b>	SUT	<b>→</b>	ISUP
	INVITE(IAM)  CASE A	7	1	7	IAM
	180 Ringing(ACM)	+		+	ACM
	200 OK INVITE(ANM)	+		<del></del>	ANM
	ACK	<del></del>		<del>-   -</del>	AINIVI
	CASE B	7	1		1
	200 OK INVITE(CON)	<b>+</b>		+	CON
	ACK	→ ·			
	7.01	+ -	Conversa	ation	+
	BYE(REL)	<b>→</b>	COLLAGIS	→ HOIII	REL
	200 OK BYE(RLC)	+		<del></del>	RLC
	1200 ON DTE(NEO)		L		ILLO

TP403010	SIP reference: RFC	3261	[4]			ISUP reference:
						12.5 [1], clause B.2,
TSS reference				Q	./31	[i.2], clause 5.5.2.1.1
SIP selection	ISUP-SIP-ISUP/SS/COLP					
criteria						
ISUP selection						
criteria						
Test purpose	Handling unrequested CC	)L				
	Ensure that the call can be		sfully set up	if the SU	T red	ceives an unsolicited COL.
SIP parameter	200 OK INVITE with encaps					
values	Connected number					
	Address presentatio				3	
	Nature of address in			В		
	Numbering plan indi					
	Screening indicator					
ISUP parameter	Address signals = P	IAH				
values	optional forward call indic	ratore				
values	Connected line identity requ		dicator: <b>not r</b>	eauested	ı	
	a)	2001 1110	aroator. Hot i	oquootou	•	
	ANM;					
	Connected number param	neter				
	Address presentation restric			0'B		
	Nature of address indicator					
	Numbering plan indicator =	'001'B				
	Screening indicator = '11'B					
	Address signals = PIXIT	hor or	ocont			
	additional connected num b)	ibei pi	eseni			
	CON;					
	Connected number param	neter				
	Address presentation restrict		rameter = '0	0'B		
	Nature of address indicator					
	Numbering plan indicator =	'001'B				
	Screening indicator = '11'B					
	Address signals = PIXIT					
0	additional connected num	<b>iber</b> pr				IOUD
Comments	SIP-I		SUT		_	ISUP
	INVITE(IAM)  CASE A	<b>→</b>			<b>→</b>	IAM
	180 Ringing(ACM)	<b>+</b>	1		+	ACM
	200 OK INVITE(ANM)	+			<del>`</del>	ANM
	ACK	<b>→</b>		+	_	AINIVI
	CASE B		I	1		1
	200 OK INVITE(CON)	+		1	+	CON
	ACK	<u>`</u>				
			Conversa	ation		
	BYE(REL)	<b>→</b>			<b>→</b>	REL
	200 OK BYE(RLC)	+			<del>-</del>	RLC

TP403012	SIP reference: RFC 3	3261 [4]		Q.19	ISUP reference: 12.5 [1], clause B.2, [i.2], clause 5.5.2.1.1
TSS reference	ISUP-SIP-ISUP/SS/COLP				
SIP selection					
criteria					
ISUP selection	PICS 1/7				
criteria					
Test purpose	Ensure that an ANM or CON without changing. The connectonnected sub address is inc	cted numbe luded.	er is unchan	ged. The	TE is sent on the ISUP side ATP contained the
SIP parameter values	200 OK INVITE: encapsulated	d ANM or C	ON include	d	
ISUP parameter	a)				
values	ANM;				
	Connected number parame				
	Address presentation restricted				
	Nature of address indicator =		3		
	Numbering plan indicator = '0	01'B			
	Screening indicator = '11'B				
	Address signals = PIXIT				
	and an access transport par	ameter cor	taining the	connecte	ed sub-address.
	b)				
	CON;	_			
	Connected number parame				
	Address presentation restricte				
	Nature of address indicator =		3		
	Numbering plan indicator = '0	01'B			
	Screening indicator = '11'B				
	Address signals = PIXIT		.4		- d l d d
Comments	and an access transport par	ameter cor	SUT	connecte	SIP-I
Comments		_	301		1
	IAM CASE A	<b>→</b>		→	INVITE(IAM)
		7			1400 D: : (AOM)
	_	<del>(</del>		<del>-</del>	180 Ringing(ACM)
	ANM	+		<b>+</b>	200 OK INVITE(ANM)
	0.005.0			→	ACK
	CASE B	<del>-</del> 1		- T -	loop out his difference
	CON	<del>(</del>		<b>←</b>	200 OK INVITE(CON)
				→	ACK
			nversation	ı	
		→		→	BYE(REL)
	RLC	<b>←</b>		+	200 OK BYE(RLC)

TP403013	SIP reference: RFC	3261	[4]			SUP reference:
						12.5 [1], clause B.2, [i.2], clause 5.5.2.1.1
TSS reference	ISUP-SIP-ISUP/SS/COLP			<u> </u>		[], c.aacc c.c.z
SIP selection	1001 011 1001 70070021					
criteria						
ISUP selection						
criteria						
Test purpose	O-MGCF: connected number	er and a	additional co	onnected n	numb	er transferred transparently
	Ensure that an ANM or CON without changing. The conn	ected r	number is ur			
CID managed an	connected sub address is in					
SIP parameter	200 OK INVITE: encapsulate	ea Aivi	vi or CON in	iciuaea		
values	->					
ISUP parameter values	a)					
values	ANM;	otor				
	Connected number param Address presentation restrict		rametor - 'O	no'B		
	Nature of address indicator			ЮБ		
	Numbering plan indicator = '		טווט			
	Screening indicator = '11'B	00 I B				
	Address signals = PIXIT					
	Additional connected num	her nr	esent			
	Address presentation restrict			00'B		
	Nature of address indicator	•		,0 B		
	Numbering plan indicator = 1		7011B			
	Screening indicator = '00'B	0010				
	Address signals = PIXIT					
	and an access transport pa	aramet	er containin	a the conn	ecte	d sub-address
	b)			9		a cab ada.ccc.
	CON;					
	Connected number param	eter				
	Address presentation restrict		rameter = '0	00'B		
	Nature of address indicator					
	Numbering plan indicator =		702			
	Screening indicator = '11'B					
	Address signals = PIXIT					
	Additional connected num	<b>ber</b> pr	esent			
	Address presentation restrict			00'B		
	Nature of address indicator	•				
	Numbering plan indicator =					
	Screening indicator = '00'B					
	Address signals = PIXIT					
	and an access transport pa	<u>ara</u> met	er containin	g the conn	ecte	d sub-address.
Comments	ISUP		SUT			SIP-I
	IAM	<b>→</b>			<b>→</b>	INVITE(IAM)
	CASE A					
	ACM	<b>←</b>			<del>-</del>	180 Ringing(ACM)
	ANM	+			<del>(</del>	200 OK INVITE(ANM)
					<b>→</b>	ACK
	CASE B		1	I		•
	CON	+			<del>(</del>	200 OK INVITE(CON)
					<u>→</u>	ACK
			Convers			
	REL	<b>→</b>	00.110.30		<b>→</b>	BYE(REL)
	RLC	<del>-</del>			<del>/</del>	200 OK BYE(RLC)
	INLO					ZOO ON DIL(INLO)

## 5.3.4 Connected Line Identification Restriction (COLR)

TP404001	SIP reference: RF	C 3261	[4]		ISUP reference: 112.5 [1], clause B.2,			
					[i.2], clause 6.5.2.1.1			
TSS reference	ISUP-SIP-ISUP/SS/COLR	{	l					
SIP selection								
criteria								
ISUP selection								
criteria								
Test purpose	Passing on information relating to COLR  Ensure that the SUT shall pass transparently all information related to the COLR							
					indicator of the connected			
	number.	ine addit	ess present		indicator of the connected			
SIP parameter	number.							
values								
ISUP parameter	IAM;							
values	optional forward call inc	licators						
	Connected line identity re-	quest inc	licator: requ	ested				
	a)							
	ANM;							
	Connected number para			ALD.				
	Address presentation rest Nature of address indicate			ΠВ				
	Numbering plan indicator		ЛПБ					
	Screening indicator = '01'							
	Address signals = PIXIT							
	b)							
	CON;							
	Connected number para							
	Address presentation rest			1' B				
	Nature of address indicate		0011'B					
	Numbering plan indicator							
	Screening indicator = '01'l Address signals = PIXIT	В						
	Address signals = FIXIT							
Comments	SIP-I		SUT	-	ISUP			
	INVITE(IAM)	→		<b>→</b>	IAM			
	CASE À			•				
	180 Ringing(ACM)	+		+	ACM			
	200 OK INVITE(ANM)	+		<b>←</b>	ANM			
	ACK	→						
	CASE B	1	1	1	Table			
	200 OK INVITE(CON)	<del>-</del>		<b>←</b>	CON			
	ACK	<b>→</b>	<u> </u>					
			Convers					
	BYE(REL)	<b>→</b>		<b>→</b>	REL			
	200 OK BYE(RLC)	<b>←</b>		+	RLC			

TP404002	SIP reference: RFC 3	261 [	4]		Q.19	SUP reference: 12.5 [1], clause B.2, [i.2], clause 6.5.2.1.1
TSS reference	ISUP-SIP-ISUP/SS/COLR					
SIP selection						
criteria						
ISUP selection						
criteria						
Test purpose	Passing on information relationship that the SUT shall passupplementary service in the anumber and the additional columbars.	s trar addre	nsparently a ss presenta	ation rest	ricted	indicator of the connected
SIP parameter						
values						
ISUP parameter	IAM;					
values	optional forward call indicate Connected line identity reques a) ANM; Connected number paramet Address presentation restricte Nature of address indicator = '00 Screening indicator = '11'B Address signals = PIXIT Additional connected number Address presentation restricte Nature of address indicator = '00 Screening indicator = '00'B Address presentation restricte Nature of address indicator = '00'B Address signals = PIXIT b) CON; Connected number parameter Address presentation restricte Nature of address indicator = '00'B Address presentation restricte Nature of address indicator = '00'B Address signals = PIXIT Additional connected number Address presentation restricte Nature of address indicator = '00'B Address presentation restricte Nature of address indicator = '00'B Address signals = PIXIT	er production of particular parti	rameter = '0 1011'B  esent rameter = '0 1011'B  rameter = '0 1011'B	1' B 1' B 1' B		
Comments			CLID		1	ISTIB
Comments	SIP-I	<b>&gt;</b>	SUT		<b>→</b>	ISUP
	INVITE(IAM)  CASE A	7			7	IAM
		_			- L	A C M
	3 3( - /	<del>(</del>			<del>-</del>	ACM
	\ /	<del>(</del>			+	ANM
		→				
	CASE B					
		<b>←</b>			+	CON
	ACK -	<b>→</b>				
			Convers	ation		
	BYE(REL)	<b>→</b>			<b>→</b>	REL
		<del>(</del>			+	RLC

TP404003	SIP reference: RFC	3261	[4]		ISUP reference:			
		. 020.	١٠٠		912.5 [1], clause B.2,			
					[i.2], clause 6.5.2.1.1			
TSS reference	ISUP-SIP-ISUP/SS/COLR							
SIP selection	1001 011 1001 1001 00211							
criteria								
ISUP selection								
criteria								
Test purpose	Restricted connected number (user provided, verified and passed) with connected							
	sub-address	•	•	·	. ,			
	Ensure that the SUT can pa	iss trar	sparently a	connected n	umber with the screening			
	indicator set to "user provide	ed, ver	ified and pa	ssed" and with	the address presentation			
	restricted indicator set to "p							
	Additionally, an access train	nsport	parameter of	containing the	connected sub-address			
	shall also be provided.							
SIP parameter								
values								
ISUP parameter	IAM;							
values	optional forward call indic							
	Connected line identity requ	iest ind	dicator: requ	ested				
	a)							
	ANM;							
	Connected number param		romotor 'C	M' D				
	Address presentation restrict Nature of address indicator			пв				
	Numbering plan indicator =		00116					
	Screening indicator = '01'B	0016						
	Address signals = PIXIT							
	access transport parameter	contai	ning the cor	nected sub-ad	ddress			
	b)	ooma	ining the cor	mootoa cab a	33.000			
	CON;							
	Connected number param	eter						
	Address presentation restrict		rameter = 'C	)1' B				
	Nature of address indicator	= '000	0011'B					
	Numbering plan indicator =	'001'B						
	Screening indicator = '01'B							
	Address signals = PIXIT							
_	access transport parameter	contai						
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM)	<b>→</b>		→	IAM			
	CASE A	-	Т	1 -	1.014			
	180 Ringing(ACM)	<del>(</del>		<del>-</del>	ACM			
	200 OK INVITE(ANM)	<u>+</u>		+	ANM			
	ACK	<b>→</b>						
	CASE B		1	٠, ١	Took			
	200 OK INVITE(CON)	+		+	CON			
	ACK	→						
	D) (E (DEL)		Convers		l l			
	BYE(REL)	<b>→</b>		<b>→</b>	REL			
	200 OK BYE(RLC)	+	1	+	RLC			

TP404004	SIP reference: RFC	3261	[4]			SUP reference:
						2.5 [1], clause B.2,
TCC votovous				Q.	/31 <u> </u>	[i.2], clause 6.5.2.1.1
TSS reference	ISUP-SIP-ISUP/SS/COLR					
SIP selection						
criteria ISUP selection	DIOC 7/4					
criteria	PICS 7/1					
Test purpose	Discarding the connected	numb	or if the pr	contotion	ic ro	actriotod
rest purpose	Ensure that the connected					
	address presentation restric					
SIP parameter	200 INVITE: encapsulated A			to presen	tatioi	Trestricted .
values	No Connected numb			hah		
ISUP parameter	IAM;	ei paia	ineter inclu	ueu		
values	optional forward call indic	ators				
Values	Connected line identity requ		icator: requ	ested		
	a)		ioutor. roqu	oolou		
	ANM;					
	Connected number param	eter				
	Address presentation restrict		rameter = 'C	1'B		
	Nature of address indicator	= '0000	011'B			
	Numbering plan indicator =	'001'B				
	Screening indicator = '11'B					
	Address signals = PIXIT					
	b)					
	ĆON;					
	Connected number param	eter				
	Address presentation restric	cted par	rameter = 'C	1'B		
	Nature of address indicator		011'B			
	Numbering plan indicator =	'001'B				
	Screening indicator = '11'B					
	Address signals = PIXIT					
Comments	SIP-I		SUT	-		ISUP
	INVITE(IAM)	<b>→</b>			<b>→</b>	IAM
	CASE A		1	1		W W W W W W W W W W W W W W W W W W W
	180 Ringing(ACM)	+		1.	<del>(</del>	ACM
	200 OK INVITE(ANM)	÷				ANM
	ACK	<u>`</u>			_	
	CASE B	1		J.		
	200 OK INVITE(CON)	<b>←</b>		1.	<del>(</del>	CON
	ACK	<b>→</b>				
			Convers	ation		
	BYE(REL)	<b>→</b>	22010		<b>→</b>	REL
	200 OK BYE(RLC)	<del>_</del>				RLC
	LOG ON BIL(NEO)				•	

TP404005	SIP reference: RF0	C 3261	[4]		ISUP reference:	
					912.5 [1], clause B.2,	
				Q.73	1 [i.2], clause 6.5.2.1.1	
TSS reference	ISUP-SIP-ISUP/SS/COLR					
SIP selection	PICS 7/2					
criteria						
ISUP selection						
criteria						
Test purpose	Discarding the additional		cted number	er in the gen	eric number if the	
	presentation is restricted					:
	Ensure that the additional of					in case
	of bilateral agreements, if the "presentation restricted".	ne addi	ess present	alion restricte	d indicator is set to	
SIP parameter	200 INVITE: encapsulated	ΛΝΙΜ o	r CON			
values	No Additional Conne			neter include	4	
ISUP parameter	IAM;	oolou II	arribor parar	noter morade	<u>4</u>	
values	optional forward call indi	cators				
	Connected line identity req		dicator: requ	ested		
	a)					
	ÁNM;					
	Connected number paran	neter pr	esent			
	Additional Connected nu					
	Address presentation restri			1'B		
	Nature of address indicator					
	Numbering plan indicator =					
	Screening indicator = '11'B					
	Address signals = PIXIT					
	b)					
	CON;					
	Connected number param	neter pr	esent			
	Additional Connected nu					
	Address presentation restri			1'B		
	Nature of address indicator					
	Numbering plan indicator =					
	Screening indicator = '11'B					
	Address signals = PIXIT					
		1			I. a	
Comments	SIP-I	+	SUT		ISUP	
	INVITE(IAM)	<b>→</b>		→	IAM	
	CASE A		1	-	A O N A	
	180 Ringing(ACM)	<del>-</del>	1	<del>-</del>	ACM	
	200 OK INVITE(ANM)	<b>←</b>		+	ANM	
	ACK CASE B	<u> </u>				
			1	<b>+</b>	CON	
	200 OK INVITE(CON)	<b>←</b>			CON	
	ACK	<del>                                     </del>	Conversa	tion		
	BVE(BEL)		Conversa	tion →	REL	
	BYE(REL) 200 OK BYE(RLC)	<b>→</b>		+	RLC	
	ZUU UN BTE(NLC)		1		RLC	

TP404007	SIP reference: RFC	3261	[4]		-	SUP reference:
11 404001	On Toloronoo. IXI o	0201	נייו			12.5 [1], clause B.2,
				(		[i.2], clause 6.5.2.1.1
TSS reference	ISUP-SIP-ISUP/SS/COLR					:
SIP selection						
criteria						
ISUP selection						
criteria						
Test purpose	O-MGCF: Connected numb transferred	er, add	litional conn	ected nu	mber	and connected subaddress
	Ensure that an ANM or COI without changing. The conn connected sub address is ir	ected r	number is ur			
SIP parameter	200 OK INVITE: encapsulate			cluded		
values						
ISUP parameter	ANM;					
values	Connected number param					
	Address presentation restric			11'B		
	Nature of address indicator		)011'B			
	Numbering plan indicator =	'001'B				
	Screening indicator = '11'B					
	Address signals = PIXIT					
	Additional connected nun Address presentation restric			MID		
	Nature of address indicator			ПБ		
	Numbering plan indicator =		ЮПБ			
	Screening indicator = '00'B	0010				
	Address signals = PIXIT					
	and an access transport p	aramet	er containin	g the cor	necte	ed sub-address.
	b)			J		
	CON;					
	Connected number param					
	Address presentation restrict			11'B		
	Nature of address indicator		)011'B			
	Numbering plan indicator =	'001'B				
	Screening indicator = '11'B					
	Address signals = PIXIT		coont			
	Additional connected num			MID		
	Address presentation restrict Nature of address indicator			ПБ		
	Numbering plan indicator =		ЮПВ			
	Screening indicator = '00'B	0012				
	Address signals = PIXIT					
	and an access transport p	aramet	er containin	g the cor	necte	ed sub-address.
Comments	ISUP		SUT			SIP-I
	IAM	<b>→</b>			<b>→</b>	INVITE(IAM)
	CASE A					
	ACM	+			+	180 Ringing(ACM)
	ANM	+			+	200 OK INVITE(ANM)
	0.105.5				<b>→</b>	ACK
	CASE B				-	000 01/ 100/175/0000
	CON	+			<b>+</b>	200 OK INVITE(CON)
			0	-1!	<b>→</b>	ACK
	DEL	<b>_</b>	Convers	ation	-	DVE(DEL)
	REL	<b>→</b>			<b>→</b>	BYE(REL)
	RLC	+			<b>←</b>	200 OK BYE(RLC)

# 5.3.5 Terminal Portability (TP)

TP405001	SIP reference: RF	C 3261	[4]		ISUP reference: 112.5 [1], clause B.13, 33 [i.6], clause 4.5.2.1
TSS reference:	ISUP-SIP-ISUP/SS/TP				
SIP selection					
criteria					
ISUP selection criteria					
Test purpose	Terminal portability, req Ensure that SUT informs t requested by the calling p	the called	d party that	a suspend an	d a resume have been SUS and RES messages.
SIP parameter values	INFO: Content-Type: appl	ication/IS	SUP; SUS a	ind RES enca	psulated in the MIME body
ISUP parameter values					
Comments	ISUP		SU	Γ	SIP-I
	IAM	<b>→</b>		→	INVITE(IAM)
	ACM	+		+	180 Ringing(ACM)
	ANM	+		+	200 OK INVITE(ANM)
				→	ACK
			Convers	ation	
	SUS	→		<b>→</b>	INFO(SUS)
				+	200 OK INFO
	RES	<b>→</b>		<b>→</b>	INFO(RES)
				+	200 OK INFO
	DEI	+			DVE(DEL)
	REL	<b>→</b>		<b>→</b>	BYE(REL)
	RLC	+		<b>←</b>	200 OK BYE(RLC)

TP405002	SIP reference: RF0	3261	[4]	Q.19	ISUP reference: 12.5 [1], clause B.13, 3 [i.6], clause 4.5.2.1
TSS reference:	ISUP-SIP-ISUP/SS/TP				
SIP selection criteria					
ISUP selection criteria					
Test purpose	Terminal portability, requ Ensure that SUT informs the requested by the called part	e callin	g party that a su	spend and	
SIP parameter values	INFO: Content-Type: applic	cation/IS	SUP; SUS and R	ES encap	sulated in the MIME body
ISUP parameter values					
Comments	ISUP		SUT		SIP-I
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)
	ACM	+		+	180 Ringing(ACM)
	ANM	+		+	200 OK INVITE(ANM)
				<b>→</b>	ACK
			Conversation	1	
	SUS	+		+	INFO(SUS)
				<b>→</b>	200 OK INFO
	RES	<b>←</b>		<del>(</del>	INFO(RES)
				<b>→</b>	200 OK INFO
	REL	<b>→</b>		<b>→</b>	BYE(REL)
	RLC	<del>-</del>		+	200 OK BYE(RLC)

TP405003	SIP reference: RFC	3261	[4]	Q.19	ISUP reference: 12.5 [1], clause B.13, 3 [i.6], clause 4.5.2.1				
TSS reference	ISUP-SIP-ISUP/SS/TP			4	o [], o.u.ooo.				
SIP selection criteria									
ISUP selection criteria									
Test purpose	Ensure that the call is release	Terminal portability, requested by local served user, no Resume after Suspend Ensure that the call is released with cause #102 (recovery on timer expiry) by the SUT if timer T2 expires because the local served user does not resume the call.							
SIP parameter	INFO: Content-Type: applic								
values	BYE : Content-Type: applic	ation/IS	SUP; REL e	ncapsulated in	the MIME body				
ISUP parameter									
values									
Comments	ISUP		SU.	Τ	SIP-I				
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)				
	ACM	+		+	180 Ringing(ACM)				
	ANM	+		+	200 OK INVITE(ANM)				
				<b>→</b>	ACK				
			Convers	ation					
	SUS	<b>→</b>		→	INFO(SUS)				
				<b>←</b>	200 OK INFO				
	REL	<b>→</b>		<b>→</b>	BYE(REL)				
	RLC	+		←	200 OK BYE(RLC)				

TP405004	SIP reference: RFC	3261	[4]	Q.191	SUP reference:   2.5 [1], clause B.13,  3 [i.6], clause 4.5.2.1				
TSS reference	ISUP-SIP-ISUP/SS/TP		-						
SIP selection									
criteria									
ISUP selection									
criteria									
Test purpose	Terminal portability, relea	se sus	pended call						
	Ensure that a suspended ca	all can b	e released,	if the remote i	user releases the call.				
SIP parameter	INFO: Content-Type: applic	INFO: Content-Type: application/ISUP; SUS encapsulated in the MIME body							
values	BYE : Content-Type: application	ation/IS	UP; REL en	capsulated in	the MIME body				
ISUP parameter									
values									
Comments	ISUP		SUT		SIP-I				
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)				
	ACM	+		+	180 Ringing(ACM)				
	ANM	+		+	200 OK INVITE(ANM)				
				<b>→</b>	ACK				
	Conversation								
	SUS	<b>→</b>		→	INFO(SUS)				
				+	200 OK INFO				
	REL	+		+	BYE(REL)				
	RLC	<b>→</b>		<b>→</b>	200 OK BYE(RLC)				

# 5.3.6 SUB-addressing (SUB)

TP406001	SIP refere	ence: RFC 3261 [4	1	Q.19	ISUP reference: i12.5 [1], clause B.5, [i.2], clause 8.5.2.1.1
TSS reference:	ISUP-SIP-ISUP/S	SS/SUB			
SIP selection criteria					
ISUP selection criteria					
Test purpose	Ensure that the S	d sub-address in the UT can include the encapsulated IAM.			meter ne access transport
SIP parameter values		Type: multipart/mixi			cation/ISUP , Content-Type:
ISUP parameter values		•			
Comments	ISUP		SUT		SIP-I
	IAM	<b>→</b>		→	INVITE(IAM)
	ACM	+		+	180 Ringing(ACM)
	ANM	<b>←</b>		+	200 OK INVITE(ANM)
			•	<b>→</b>	ACK
			Conversation	)	
	REL	→		<b>→</b>	BYE(REL)
	RLC	<b>←</b>		+	200 OK BYE(RLC)

TP406002	SIP reference: RI	FC 3261	[4]	Q.19	ISUP reference: h12.5 [1], clause B.5, [i.2], clause 8.5.2.1.1
TSS reference	ISUP-SIP-ISUP/SS/SUB				
SIP selection criteria					
ISUP selection					
criteria					
Test purpose	Receiving the called sub- Ensure that the SUT can parameter in the ISUP IAI	include th			
SIP parameter					
values					
ISUP parameter values					
Comments	SIP-I		SUT		ISUP
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM
	180 Ringing(ACM)	+		+	ACM
	200 OK INVITE(ANM)	+		+	ANM
	ACK	<b>→</b>			
			Conversation	•	
	BYE(REL)	<b>→</b>		<b>→</b>	REL
	200 OK BYE(RLC)	+		+	RLC

TP406003	SIP reference: RFC	3261	[4]	Q.19	ISUP reference: 912.5 [1], clause B.5,
					[i.2], clause 8.5.2.1.1
TSS reference	ISUP-SIP-ISUP/SS/SUB				
SIP selection criteria					
ISUP selection criteria					
Test purpose	Sending the calling sub-add Ensure that the SUT can inc				
	parameter in the encapsular		-	D-address III	ne access transport
SIP parameter	INVITE: Content-Type: mult	tipart/m	ixed, Conte	nt-Type: appli	cation/ISUP multipart/mixed,
values	Content-Type: application/IS MIME body	SUP , C	Content-Typ	e: application/	ISUP; IAM encapsulated in the
ISUP parameter					
values					
Comments	ISUP		SUT	7	SIP-I
	IAM	<b>→</b>		→	INVITE(IAM)
	ACM	+		+	180 Ringing(ACM)
	ANM	+		+	200 OK INVITE(ANM)
				→	ACK
			Convers	ation	
	REL	<b>→</b>		→	BYE(REL)
	RLC	+		+	200 OK BYE(RLC)

TP406004	SIP reference: RI	FC 3261 [	4]	Q.19	ISUP reference: 112.5 [1], clause B.5, [i.2], clause 8.5.2.1.1
TSS reference	ISUP-SIP-ISUP/SS/SUB				
SIP selection criteria					
ISUP selection criteria					
Test purpose	Receiving the calling sub- Ensure that the SUT can parameter in the ISUP IAI	include the			
SIP parameter	•				
values					
ISUP parameter values					
Comments	SIP-I		SUT		ISUP
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM
	180 Ringing(ACM)	+		+	ACM
	200 OK INVITE(ANM)	+		+	ANM
	ACK	→			
			Conversation	n	
	BYE(REL)	<b>→</b>		<b>→</b>	REL
	200 OK BYE(RLC)	+		+	RLC

# 5.3.7 Malicious Call Identification (MCID)

TP407001	SIP reference	ce: RFC 3261 [4	]		ISUP reference: 0.1912.5 [1], clause B.4, 31.7 [i.3], clause 7.5.2.1.1		
TSS reference:	ISUP-SIP-ISUP/SS/	MCID					
SIP selection							
criteria							
ISUP selection							
criteria							
Test purpose	Successful MCID re	quest O-MGCF					
SIP parameter	encapsulated IDR han IRS with MCID renumber included. IS	at the SUT can successfully pass on a 183 Session Progress containing an sted IDR having the MCID request indicator set to "MCID request" and pass on the MCID response indicator set to "MCID included" and the calling party cluded. ISUP to SIP-I interworking.  In Progress: Content-Type: application/ISUP; IDR encapsulated in the MIME					
values	body INFO: Content-Type		• •		•		
ISUP parameter values							
Comments	ISUP		SUT		SIP-I		
	IAM	<b>→</b>		→	INVITE(IAM)		
	IDR	+		+	183 Session Progress(IDR)		
	IRS	<b>→</b>		<b>→</b>	INFO(IRS)		
				+	200 OK INFO		
	ACM	+		+	180 Ringing(ACM)		
	ANM	+		+	200 OK INVITE(ANM)		
				→	ACK		
			Conversat	ion			
	REL	<b>→</b>		→	\ /		
	RLC	+		<b>←</b>	200 OK BYE(RLC)		

TP407002	SIP reference: RFC 32	261 [4]				ISUP reference:			
					Q.19	12.5 [1], clause B.4,			
				Q	.731.7	7 [i.3], clause 7.5.2.1.1			
TSS reference	ISUP-SIP-ISUP/SS/MCID					<b>L 2</b> /			
SIP selection criteria									
ISUP selection criteria									
Test purpose	Successful MCID request I-MC	GCF							
	set to "MCID request" and pas included" and the calling part	Ensure that the SUT can successfully pass on an <b>IDR</b> having the <b>MCID request indicator</b> set to "MCID request" and pass on an <b>IRS</b> with <b>MCID response indicator</b> set to "MCID included" and the <b>calling party number</b> included. SIP-I to ISUP interworking.							
SIP parameter	183 Session Progress: Conter	nt-Type:	applicat	ion/ISUP	; IDR	encapsulated in the MIME			
values	body								
	INFO: Content-Type: application	on/ISUF	P; IRS er	ncapsulat	ed in	the MIME body			
ISUP parameter values									
Comments	SIP-I		S	UT		ISUP			
	INVITE(IAM)	<b>→</b>			<b>→</b>	IAM			
	183 Session Progress(IDR)	+			+	IDR			
	INFO(IRS)	<b>→</b>			<b>→</b>	IRS			
	200 OK INFO	+							
	180 Ringing(ACM) ← ← ACM 200 OK INVITE(ANM) ← ← ANM								
	ACK	<b>→</b>							
		Conversation							
	BYE(REL)	<b>→</b>			<b>→</b>	REL			
	200 OK BYE(RLC)	<b>←</b>			+	RLC			

TP407003	SIP reference: RFC 3261 [4]			(	ISUP reference: Q.1912.5 [1], clause B.4, Q.731.7 [i.3], clause 7.5.2.1.1				
TSS reference	ISUP-SIP-ISUP/SS/MCID								
SIP selection criteria									
ISUP selection									
criteria									
Test purpose	Ensure that the SUT will accept been received. The SUT should	Successful MCID request - after ACM Ensure that the SUT will accept and pass on correctly an MCID request after ACM has been received. The SUT should pass on an IDR having the MCID request indicator set to "MCID request" and pass on an IRS with MCID response indicator set to "MCID							
SIP parameter	INFO: Content-Type: application								
values	INFO: Content-Type: application								
ISUP parameter values	IRS containing the calling party								
Comments	SIP-I		S	UT		ISUP			
	INVITE(IAM)	<b>→</b>			→	IAM			
	CASE A								
	180 Ringing(ACM)	+			+	ACM			
	183 Session Progress(IDR)	+			+	IDR			
	INFO(IRS)	<b>→</b>			<b>→</b>	IRS			
	200 OK INFO	+							
	200 OK INVITE(ANM)	+			+	ANM			
	ACK	<b>→</b>							
	CASE B								
	183 Session Progress(ACM)	+			+	ACM(early)			
	183 Session Progress(IDR)	+			+	IDR			
	INFO(IRS)	<b>→</b>			<b>→</b>	IRS			
	200 OK INFO	+							
	180 Ringing(CPG)	+			+	CPG(alerting)			
	200 OK INVITE(ANM)	+			+	ANM			
	ACK	<b>→</b>							
			Conve	rsation					
	BYE(REL)	<b>→</b>			<b>→</b>	REL			
	200 OK BYE(RLC)	+			+	RLC			
NOTE: This situa	ation may occur e.g. if the call ha	s been	forward	ed befor	re reac	hing the destination.			

TP407004	SIP reference: RFC	3261	[4]		ISUP reference: 912.5 [1], clause B.4, 1.7 [i.3], clause 7.5.2.1.1
TSS reference	ISUP-SIP-ISUP/SS/MCID				
SIP selection criteria					
ISUP selection criteria					
Test purpose	MCID request - MCID not s Ensure that the SUT rejects indicator set to "MCID not i	a MCI	D request by	/ sending an	IRS with the MCID response
SIP parameter	183 Session Progress: Con	tent-Ty	pe: applicati	on/ISUP; IDI	R encapsulated in the MIME
values	body INFO: Content-Type: application	ation/IS	SUP; IRS en	capsulated in	n the MIME body
ISUP parameter values				•	
Comments	ISUP		SUT		SIP-I
	IAM	<b>→</b>		→	INVITE(IAM)
	IDR	+		+	183 Session Progress(IDR)
	IRS	<b>→</b>		→	INFO(IRS)
				+	200 OK INFO
	ACM	+		+	180 Ringing(ACM)
	ANM	+		+	200 OK INVITE(ANM)
				→	ACK
			Conversat	tion	
	REL	<b>→</b>		→	BYE(REL)
	RLC	4		<b>←</b>	200 OK BYE(RLC)

TP407005	SIP reference: RFC 3	261 [4]		Q.19	ISUP reference: 12.5 [1], clause B.4, 7 [i.3], clause 7.5.2.1.1		
TSS reference	ISUP-SIP-ISUP/SS/MCID						
SIP selection criteria							
ISUP selection criteria							
Test purpose	MCID request - MCID not sul Ensure that the SUT rejects a indicator set to "MCID not inc	MCID r	equest by send	ding an <b>I</b>			
SIP parameter	183 Session Progress: Conter	it-Type:	application/IS	UP; IDR	encapsulated in the MIME		
values	body INFO: Content-Type: application	on/ISUF	P: IRS encapsu	lated in	the MIME body		
ISUP parameter values			,		,		
Comments	SIP-I		SUT		ISUP		
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM		
	183 Session Progress(IDR)	+		+	IDR		
	INFO(IRS)	<b>→</b>		<b>→</b>	IRS		
	200 OK INFO	+					
	180 Ringing(ACM)	+		+	ACM		
	200 OK INVITE(ANM) ← ← ANM						
	ACK	<b>→</b>					
			Conversation	1			
	BYE(REL)	<b>→</b>		<b>→</b>	REL		
	200 OK BYE(RLC)	+		+	RLC		

TP407006	SIP reference: RFC 32	261 [4]		Q.19	ISUP reference: 112.5 [1], clause B.4, 7 [i.3], clause 7.5.2.1.1		
TSS reference	ISUP-SIP-ISUP/SS/MCID						
SIP selection							
criteria							
ISUP selection	PICS 1/7						
criteria							
Test purpose	<ul> <li>MCID information passed and set correctly - outgoing         Ensure that a received IDR is transferred transparently into the national network, the subsequent IRS being transferred into the international network so that the country code in the address signals of the calling party number is added and the nature of address indicator is set to "international number":         <ul> <li>the IDR request is transferred into the national network;</li> <li>The IRS is received from the national network having the calling party number coded as an "international number". Calling party sub-address in ATP.</li> </ul> </li> </ul>						
SIP parameter	183 Session Progress: Conten	ıt-Type: ap	plication/IS	UP; IDR	encapsulated in the MIME		
values	body INFO: Content-Type: application	nn/ISLIP: I	RS encansi	ılated in	the MIME body		
ISUP parameter values	пи с. сетем туре: аррисан	511/1001 <u>, 1</u>	то оподрос	ilatod iii	ano mimia sody		
Comments	SIP-I		SUT		ISUP		
	INVITE(IAM)	<b>→</b>		→	IAM		
	183 Session Progress(IDR)	+		+	IDR		
	INFO(IRS)	<b>→</b>		<b>→</b>	IRS		
	200 OK INFO	+					
	180 Ringing(ACM)	+		+	ACM		
	200 OK INVITE(ANM)	+		+	ANM		
	ACK	<b>→</b>					
		С	onversatio	n			
	BYE(REL)	→		<b>→</b>	REL		
	200 OK BYE(RLC)	+		+	RLC		

TP407007	SIP reference	: RFC 3261 [	4]	ISUP reference: Q.1912.5 [1], clause B.4, Q.731.7 [i.3], clause 7.5.2.1.1				
TSS reference	ISUP-SIP-ISUP/SS/M	CID		• •				
SIP selection criteria								
ISUP selection criteria								
Test purpose	Successful MCID request with calling sub-address O-MGCF Ensure that the SUT can successfully reply to an 183 Session Progress (IDR) having the MCID request indicator set to "MCID request" by sending an IRS with MCID response indicator set to "MCID included", the calling party number and a calling sub-address in the access transport parameter. ISUP to SIP-I interworking.							
SIP parameter	183 Session Progress	: Content-Typ	e: applicat	tion/ISUP; IDR encapsulated in the MIME				
values	body INFO: Content-Type: a	application/IS	UP; IRS en	ncapsulated in the MIME body				
ISUP parameter values								
Comments	ISUP		SUT	SIP-I				
	IAM	→		→ INVITE(IAM)				
	IDR	+		← 183 Session Progress(IDR)				
	IRS	→		→ INFO(IRS)				
				← 200 OK INFO				
	ACM	+		← 180 Ringing(ACM)				
	ANM	+		← 200 OK INVITE(ANM)				
				→ ACK				
			Conversa	ition				
	REL	<b>→</b>		→ BYE(REL)				
	RLC	+		← 200 OK BYE(RLC)				

TP407008	SIP reference: RFC 32	261 [4]		Q.19	SUP reference: 12.5 [1], clause B.4,			
				Q.731.7	7 [i.3], clause 7.5.2.1.1			
TSS reference	ISUP-SIP-ISUP/SS/MCID							
SIP selection								
criteria								
ISUP selection								
criteria								
Test purpose	Successful MCID request with calling sub-address I-MGCF Ensure that the SUT can successfully reply to an IDR having the MCID request indicator set to "MCID request" by sending an IRS with MCID response indicator set to "MCID included", the calling party number and a calling sub-address in the access transport parameter. SIP-I to ISUP interworking.							
SIP parameter	183 Session Progress: Conten	t-Type:	application/IS	UP; IDR	encapsulated in the MIME			
values	body							
	INFO: Content-Type: application	n/ISUF	; IRS encapsu	ılated in t	the MIME body			
ISUP parameter values								
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM			
	183 Session Progress(IDR)	+		+	IDR			
	INFO(IRS)	<b>→</b>		<b>→</b>	IRS			
	200 OK INFO	+						
	180 Ringing(ACM)	+		+	ACM			
	200 OK INVITE(ANM)	+		+	ANM			
	ACK	<b>→</b>						
			Conversation	n				
	BYE(REL)	<b>→</b>		<b>→</b>	REL			
	200 OK BYE(RLC)	+		+	RLC			

TP407009	SIP reference: RFC 3261 [4]				ISUP reference: 1912.5 [1], clause B.4,		
				Q.73	1.7 [i.3], clause 7.5.2.1.1		
TSS reference	ISUP-SIP-ISUP/SS/MCID						
SIP selection criteria							
ISUP selection criteria							
Test purpose	MCID timer (T39) expiry O-MGCF Ensure that call setup is continued (user is alerted) if no IRS is received within timer T39 expiry, after having sent the IDR with MCID request indicator set to "MCID requested".  ISUP to SIP-I interworking.						
SIP parameter	183 Session Progress: Con	tent-Ty	pe: applicat	ion/ISUP; ID	R encapsulated in the MIME		
values	bodyMIME body	-			•		
ISUP parameter							
values		1		<b>T</b>	1		
Comments	ISUP		SUT		SIP-I		
	IAM	<b>→</b>		→	INVITE(IAM)		
	IDR	+		<b>←</b>	183 Session Progress(IDR)		
				T39 e	expiry		
	ACM	+		+	180 Ringing(ACM)		
	ANM	+		<del>-</del>	200 OK INVITE(ANM)		
				<b>→</b>	ACK		
			Conversa	tion			
	REL	<b>→</b>		<b>→</b>	BYE(REL)		
	RLC	+		+	200 OK BYE(RLC)		

TP407010	SIP reference: RFC 32	261 [4]		ISUP reference: Q.1912.5 [1], clause B.4, Q.731.7 [i.3], clause 7.5.2.1.1				
TSS reference	ISUP-SIP-ISUP/SS/MCID							
SIP selection criteria								
ISUP selection criteria								
Test purpose	MCID timer (T39) expiry O-MGCF Ensure that call setup is continued (user is alerted) if no IRS is received within timer T39 expiry, after having sent the IDR with MCID request indicator set to "MCID requested". SIP-I to ISUP interworking.							
SIP parameter values	183 Session Progress: Content-Type: application/ISUP; IDR encapsulated in the MIME body INFO: Content-Type: application/ISUP; IRS encapsulated in the MIME body							
ISUP parameter values								
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM			
	183 Session Progress(IDR)	+		+	IDR			
				T39 (	expiry			
	180 Ringing(ACM)	+		+	ACM			
	200 OK INVITE(ANM)	+		+	ANM			
	ACK	<b>→</b>						
			Conversation	1				
	BYE(REL)	<b>→</b>		<b>→</b>	REL			
	200 OK BYE(RLC)	<b>←</b>		+	RLC			

## 5.3.8 Call hold (HOLD)

TP408001	SIP reference: RF0	SIP reference: RFC 3261 [4]			ISUP reference: 12.5 [1], table B.10-2, ], clauses 2.5.2.1.1.1 and 2.5.2.1.1.2
TSS reference	ISUP-SIP-ISUP/SS/HOLD				
SIP selection					
criteria					
ISUP selection					
criteria					
Test purpose	Call hold after answer, requ	uested k	by the origin	nating user	
CID novements	messages having the even	t indica	ntor set to "	progress". O-M	
SIP parameter values					cation/ISUP multipart/mixed,
values	the MIME body	50P, C	ontent-Type	e: application/i	SUP; CPG encapsulated in
ISUP parameter values					
Comments	ISUP		SU'	Γ	SIP-I
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)
	ACM	+		+	180 Ringing(ACM)
	ANM	+		+	200 OK INVITE(ANM)
				<b>→</b>	ACK
			Convers	ation	
	CPG(progress, hold)	<b>→</b>		<b>→</b>	INVITE(CPG, sendonly)
				<b>←</b>	200 OK INVITE(recvonly)
				→	ACK
	CPG(progress, retrieve)	<b>→</b>		<b>→</b>	INVITE(CPG, sendrecv)
				<b>←</b>	200 OK INVITE(sendrecv)
				<b>→</b>	ACK
	REL	<b>→</b>		<b>→</b>	BYE(REL)
	RLC	<b>←</b>		<b>←</b>	200 OK BYE(RLC)

TP408002	SIP reference: RFC	3261	[4]	Q.19 <sup>2</sup>	ISUP reference: 12.5 [1], table B.10-2, ], clauses 2.5.2.1.1.1 and 2.5.2.1.1.2		
TSS reference	ISUP-SIP-ISUP/SS/HOLD						
SIP selection criteria							
ISUP selection criteria							
Test purpose	Call hold after answer, requ	ested k	y the origin	ating user			
SIP parameter	Ensure that the notifications that a call is placed on hold and retrieved are sent with CPG messages having the event indicator set to "progress". I-MGCF interworking.  INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; CPG						
values	encapsulated in the MIME b		,	71 - 11	,		
ISUP parameter values	•						
Comments	SIP-I		SUT	Г	ISUP		
	INVITE(IAM)	<b>→</b>		→	IAM		
	180 Ringing(ACM)	+		+	ACM		
	200 OK INVITE(ANM)	+		+	ANM		
	ACK	<b>→</b>					
			Convers	ation			
	INVITE(CPG, sendonly)	<b>→</b>		→	CPG(progress, hold)		
	200 OK INVITE(recvonly)	+					
	ACK	<b>→</b>					
	INVITE(CPG, sendrecv)	<b>→</b>		→	CPG(progress, retrieve)		
	200 OK INVITE(sendrecv)	+					
	ACK	<b>→</b>					
	BYE(REL)	<b>→</b>		→	REL		
	200 OK BYE(RLC)	<b>←</b>		←	RLC		

TP408003	SIP reference: RF	C 3261		Q.191	SUP reference:  2.5 [1], table B.10-2,  , clauses 2.5.2.1.1.1 and   2.5.2.1.1.2
TSS reference	ISUP-SIP-ISUP/SS/HOLD				
SIP selection criteria					
ISUP selection criteria					
Test purpose	Call hold after answer, req	uested k	y the terminatin	g user	
	messages having the ever	nt indica	tor set to "prog	ress". O-M	
SIP parameter values	INVITE: Content-Type: mu encapsulated in the MIME		ixed, Content-T	ype: applic	cation/ISUP; CPG
ISUP parameter values					
Comments	ISUP		SUT		SIP-I
	IAM	→		<b>→</b>	INVITE(IAM)
	ACM	+		+	180 Ringing(ACM)
	ANM	+		+	200 OK INVITE(ANM)
				<b>→</b>	ACK
			Conversation	n	
	CPG(progress, hold)	+		+	INVITE(CPG, sendonly)
				<b>→</b>	200 OK INVITE(recvonly)
				+	ACK
	CPG(progress, retrieve)	+		+	INVITE(CPG, sendrecv)
			_	<b>→</b>	200 OK INVITE(sendrecv)
				+	ACK
	REL	→		→	BYE(REL)
	RLC	+		+	200 OK BYE(RLC)

TP408004	SIP reference: RFC	3261	[4]	ISUP reference: Q.1912.5 [1], table B.10-2, Q.733 [i.6], clauses 2.5.2.1.1.1 and 2.5.2.1.1.2			
TSS reference	ISUP-SIP-ISUP/SS/HOLD						
SIP selection criteria							
ISUP selection criteria							
Test purpose	Call hold after answer, requ	ested t	by the termi	nating user			
	messages having the event	indica	ator set to "	progress". I-MO			
SIP parameter values	INVITE: Content-Type: mult encapsulated in the MIME b		ixed, Conte	ent-Type: applic	cation/ISUP; CPG		
ISUP parameter values		•					
Comments	SIP-I		SU	Γ	ISUP		
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM		
	180 Ringing(ACM)	+		+	ACM		
	200 OK INVITE(ANM)	+		+	ANM		
	ACK	<b>→</b>					
			Convers	ation			
	INVITE(CPG, sendonly)	<b>←</b>		+	CPG(progress, hold)		
	200 OK INVITE(recvonly)	<b>→</b>					
	ACK	+					
	INVITE(CPG, sendrecv)	+		+	CPG(progress, retrieve)		
	200 OK INVITE(sendrecv)	<b>→</b>					
	ACK	+					
	BYE(REL)	<b>→</b>		<b>→</b>	REL		
	200 OK BYE(RLC)	<del>-</del>		<b>+</b>	RLC		

TP408005	SIP reference: RFC RFC 3311 [10], c			ISUP reference: Q.1912.5 [1], table B.10-2, Q.733 [i.6], clauses 2.2.1, 2.5.2.1.1.1 and 2.5.2.1.1.2		
TSS reference	ISUP-SIP-ISUP/SS/HOLD					
SIP selection criteria						
ISUP selection criteria	PICS 8/1, PICS 4/4					
Test purpose	Call hold after alerting, re Ensure that when an outg notifications are sent with	oing call	is placed o	on hold and ret	rieved after alerting the rking.	
SIP parameter	180 Ringing: Require:100					
values	UPDATE: Content-Type: n encapsulated in the MIME		mixed, Con	itent-Type: app	olication/ISUP; CPG	
ISUP parameter values		-				
Comments	ISUP		SU	Γ	SIP-I	
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)	
	ACM	+		+	180 Ringing(ACM)	
				<b>→</b>	PRACK	
				+	200 OK PRACK	
	CPG(progress, hold)	<b>→</b>		<b>→</b>	UPDATE(CPG, sendonly)	
				+	200 OK UPDATE(recvonly)	
	CPG(progress, retrieve)	<b>→</b>		<b>→</b>	UPDATE(CPG, sendrecv)	
				<del>-</del>	200 OK UPDATE(sendrecv)	
	ANIM					
	ANM	+		<b>←</b>	200 OK INVITE(ANM)	
			Convers		ACK	
	REL	<b>→</b>		<b>→</b>	BYE(REL)	
	RLC	+		+	200 OK BYE(RLC)	

TP408006	SIP reference: RFC RFC 3311 [10], cla			ISUP reference: Q.1912.5 [1], table B.10-2, Q.733 [i.6], clauses 2.2.1, 2.5.2.1.1.1 and 2.5.2.1.1.2				
TSS reference	ISUP-SIP-ISUP/SS/HOLD							
SIP selection criteria								
ISUP selection criteria	PICS 8/1, PICS 4/4							
Test purpose	Ensure that when an outgoi	Call hold after alerting, requested by the calling user Ensure that when an outgoing call is placed on hold before the dialogue has been established and retrieved after alerting the notifications are sent with CPG messages.						
SIP parameter values	INVITE: Supported: 100 rel	INVITE: Supported: 100 rel; UPDATE: Content-Type: multipart/mixed, Content-Type: application/ISUP; CPG						
ISUP parameter values								
Comments	SIP-I		SU	Γ	ISUP			
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM			
	180 Ringing(ACM)	+		+	ACM			
	PRACK	<b>→</b>						
	200 OK PRACK	+						
	UPDATE(CPG, sendonly)	<b>→</b>		<b>→</b>	CPG(progress, hold)			
	200 OK UPDATE(recvonly)	+						
	UPDATE(CPG, sendrecv) 200 OK	<b>→</b>		<b>→</b>	CPG(progress, retrieve)			
	UPDATE(sendrecv)							
	200 OK INVITE(ANM)	+		+	ANM			
	ACK	<b>→</b>	Convers	ation				
	BYE(REL)	<b>→</b>		<u>→</u>	REL			
	200 OK BYE(RLC)	+		<del>(</del>	RLC			

TP408007	SIP reference: R	FC 3261	[4]	Q.19 <sup>4</sup>	ISUP reference: 12.5 [1], table B.10-2, 64 [i.12], clause 2.3			
TSS reference	ISUP-SIP-ISUP/SS/HOLI	D						
SIP selection criteria								
ISUP selection criteria								
Test purpose		Call hold after answer, release of the call by the calling served user  Ensure that a call in the held state can be released by the user who activated the Call hold service. O-MGCF interworking						
SIP parameter	INVITE: Content-Type: m	nultipart/m	ixed, Content-Ty	ype: applic	cation/ISUP; CPG			
values	encapsulated in the MIMI	E body						
ISUP parameter								
values								
Comments	ISUP		SUT		SIP-I			
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)			
	ACM	+		+	180 Ringing(ACM)			
	ANM	+		+	200 OK INVITE(ANM)			
				<b>→</b>	ACK			
			Conversation	1				
	CPG(progress, hold)	<b>→</b>		<b>→</b>	INVITE(CPG, sendonly)			
				+	200 OK INVITE(recvonly)			
				<b>→</b>	ACK			
	REL	<b>→</b>		<b>→</b>	BYE(REL)			
	RLC	+		+	200 OK BYE(RLC)			

TP408008	SIP reference: RFC	3261	[4]	ISUP reference:			
				Q.19 <sup>-</sup>	12.5 [1], table B.10-2,		
				Q.7	64 [i.12], clause 2.3		
TSS reference	ISUP-SIP-ISUP/SS/HOLD						
SIP selection criteria							
ISUP selection							
criteria							
Test purpose	Call hold after answer, rel	ease o	f the call by	the calling s	served user		
	Ensure that a call in the hele	d state	can be rele	ased by the us	er who activated the Call hold		
	service. I-MGCF interworking	ng.		-			
SIP parameter	INVITE: Content-Type: mult	tipart/m	ixed, Conte	nt-Type: applic	cation/ISUP; CPG		
values	encapsulated in the MIME b	ody					
ISUP parameter							
values							
Comments	SIP-I		SUT	Ī	ISUP		
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM		
	180 Ringing(ACM)	+		+	ACM		
	200 OK INVITE(ANM)	+		+	ANM		
	ACK	<b>→</b>					
			Convers	ation			
	INVITE(CPG, sendonly)	<b>→</b>		<b>→</b>	CPG(progress, hold)		
	200 OK INVITE(recvonly)	+			,, ,		
	ACK	<b>→</b>					
	BYE(REL)	<b>→</b>		<b>→</b>	REL		
	200 OK BYE(RLC)	+		<b>←</b>	RLC		

TP408009	SIP reference: R	eference: RFC 3261 [4]			ISUP reference: 12.5 [1], table B.10-2, 64 [i.12], clause 2.3				
TSS reference	ISUP-SIP-ISUP/SS/HOLI	D							
SIP selection criteria									
ISUP selection criteria									
Test purpose	Ensure that a call in the h	Call hold after answer, release of the call by the terminating user  Ensure that a call in the held state can be released by the user who did not activate the  Call hold service. O-MGCF interworking.							
SIP parameter	INVITE: Content-Type: m	nultipart/m		pe: applic	cation/ISUP; CPG				
values	encapsulated in the MIMI	E body.							
ISUP parameter									
values									
Comments	ISUP		SUT		SIP-I				
	IAM	<b>→</b>		→	INVITE(IAM)				
	ACM	+		+	180 Ringing(ACM)				
	ANM	+		+	200 OK INVITE(ANM)				
				<b>→</b>	ACK				
			Conversation	1					
	CPG(progress, hold)	+		+	INVITE(CPG, sendonly)				
	, ,			<b>→</b>	200 OK INVITE(recvonly)				
				+	ACK				
	_		•						
	REL	<b>→</b>		<b>→</b>	BYE(REL)				
	RLC	+		+	200 OK BYE(RLC)				

TP408010	SIP reference: RFC 3261 [4]			ISUP reference: Q.1912.5 [1], table B.10-2, Q.764 [i.12], clause 2.3		
TSS reference	ISUP-SIP-ISUP/SS/HOLD					
SIP selection						
criteria						
ISUP selection						
criteria						
Test purpose	Call hold after answer, rel					
	Ensure that a call in the hel-			ed by the us	er who did not activate the	
	Call hold service. I-MGCF in					
SIP parameter	INVITE: Content-Type: mult		nixed, Content	-Type: applic	cation/ISUP; CPG	
values	encapsulated in the MIME b	ody				
ISUP parameter						
values						
Comments	SIP-I		SUT		ISUP	
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM	
	180 Ringing(ACM)	+		+	ACM	
	200 OK INVITE(ANM)	+		+	ANM	
	ACK	<b>→</b>				
			Conversat	ion		
	INVITE(CPG, sendonly)	+		+	CPG(progress, hold)	
	200 OK INVITE(recvonly)	<b>→</b>			, , ,	
	ACK	+				
	BYE(REL)	<b>→</b>		<b>→</b>	REL	
	200 OK BYE(RLC)	+		+	RLC	

TP408011		SIP reference: RFC 3261 [4], RFC 3311 [10], clause 5.1			ISUP reference: Q.1912.5 [1], table B.10-2, Q.764 [i.12], clause 2.3					
TSS reference	ISUP-SIP-ISUP/SS/HOLD									
SIP selection criteria	PICS 4/4									
ISUP selection criteria										
Test purpose	Ensure that a held call ca without retrieving the call	Call hold after alerting, release of the call by the calling user  Ensure that a held call can be released by the user who activated the Call hold service without retrieving the call. O-MGCF interworking.								
SIP parameter	180 Ringing: Require:100	0 rel								
values	UPDATE: Content-Type: encapsulated in the MIM		nixed, Con	tent-Typ	e: app	lication/ISUP; CPG				
ISUP parameter values										
Comments	ISUP		SU	Γ		SIP-I				
	IAM	<b>→</b>			<b>→</b>	INVITE(IAM)				
	ACM	+			+	180 Ringing(ACM)				
					<b>→</b>	PRACK				
					+	200 OK PRACK				
			Ringi	ng						
	CPG(progress, hold)	<b>→</b>			<b>→</b>	UPDATE(CPG, sendonly)				
					+	200 OK UPDATE(recvonly)				
	REL	→			→	BYE(REL)				
	RLC	<b>←</b>			<b>←</b>	200 OK BYE(RLC)				

TP408012	SIP reference: RFC 3261 [4], RFC 3311 [10], clause 5.1			Q.19	ISUP reference: 12.5 [1], table B.10-2, 64 [i.12], clause 2.3					
TSS reference	ISUP-SIP-ISUP/SS/HOLD									
SIP selection criteria	PICS 4/4	PICS 4/4								
ISUP selection criteria										
Test purpose	Ensure that a held call can	Call hold after alerting, release of the call by the calling user  Ensure that a held call can be released by the user who activated the Call hold service without retrieving the call. I-MGCF interworking.								
SIP parameter	INVITE: Supported: 100 rel;			-						
values	UPDATE: Content-Type: mencapsulated in the MIME b	UPDATE: Content-Type: multipart/mixed, Content-Type: application/ISUP; CPG								
ISUP parameter values										
Comments	SIP-I		SU	Γ	ISUP					
	INVITE(IAM)	<b>→</b>		→	IAM					
	180 Ringing(ACM)	+		+	ACM					
	PRACK	<b>→</b>								
	200 OK PRACK	+								
			Ringi	ng						
	UPDATE(CPG, sendonly)	<b>→</b>		<b>→</b>	CPG(progress, hold)					
	200 OK UPDATE(recvonly)	+								
	D/(E/DEL)				DEL					
	BYE(REL)	<b>→</b>		<b>→</b>	REL					
	200 OK BYE(RLC)	<b>←</b>		<b>←</b>	RLC					

# 5.3.9 Call Waiting (CW)

TP409001	SIP reference: RFC 3261 [4]			Q.19	SUP reference: 12.5 [1], clause B.9, [i.6], clause 1.5.2.1.1				
TSS reference:	ISUP-SIP-ISUP/SS/C	CW							
SIP selection criteria									
ISUP selection criteria									
Test purpose		Call waiting indication in ACM  Ensure that a call can be successfully established if the ACM indicates that it this call a waiting call O MCCE interworking.							
SIP parameter values			ion/ISUP; A	CM encapsu	lated in the MIME bodyMIME				
ISUP parameter values	ACM: Generic notifica	ation indicator "	'Call is a wa	iting call"					
Comments	ISUP		SUT		SIP-I				
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)				
	ACM(waiting)	<b>←</b>		<b>←</b>	180 Ringing(ACM)				
	ANM	+		+	200 OK INVITE(ANM)				
				<b>→</b>	ACK				
			Conversat	ion					
	REL	<b>→</b>		→	BYE(REL)				
	RLC	+		+	200 OK BYE(RLC)				

TP409002	SIP reference: RFC 3261 [4]			ISUP reference: Q.1912.5 [1], clause B.9, Q.733 [i.6], clause 1.5.2.1.1			
TSS reference	ISUP-SIP-ISUP/SS/CW		•				
SIP selection							
criteria							
ISUP selection							
criteria							
Test purpose	Call waiting indication in A	CM					
SIP parameter values ISUP parameter values	Ensure that a call can be swaiting call. I-MGCF interval 180 Ringing: Content-Type ACM: Generic notification	vorking. e: applic	ation/ISUP; ACM	encapsu	I indicates that this call is a lated in the MIME body		
Comments	SIP-I		SUT		ISUP		
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM		
	180 Ringing(ACM)	+		+	ACM(waiting)		
	200 OK INVITE(ANM)	+		+	ANM		
	ACK →						
			Conversation				
	BYE(REL)	<b>→</b>		<b>→</b>	REL		
	200 OK BYE(RLC)	+		+	RLC		

TP409003	SIP reference	e: RFC 3261	ISUP reference: Q.1912.5 [1], clause B.9, Q.733 [i.6], clause 1.5.2.1.1						
TSS reference	ISUP-SIP-ISUP/SS/C	:W							
SIP selection criteria									
ISUP selection criteria									
Test purpose	Ensure that a call can	Call waiting indication in CPG  Ensure that a call can be successfully established if the CPG indicates that this call is a waiting call. O-MGCF interworking.							
SIP parameter values				PG encapsulated in the MIME body					
ISUP parameter values	CPG: Generic notifica	ation indicator	"Call is a wai	iting call"					
Comments	ISUP		SUT	SIP-I					
	IAM	<b>→</b>		→ INVITE(IAM)					
	ACM	<del>-</del>		← 183 Session Progress(ACM)					
	CPG(waiting)	+		← 180 Ringing(CPG)					
	ANM								
				→ ACK					
			Conversation	on					
	REL	<b>→</b>		→ BYE(REL)					
	RLC	+		← 200 OK BYE(RLC)					

TP409004	SIP reference: RFC 3261 [4]				ISUP reference: Q.1912.5 [1], clause B.9, Q.733 [i.6], clause 1.5.2.1.1		
TSS reference	ISUP-SIP-ISUP/SS/CW						
SIP selection criteria							
ISUP selection criteria							
Test purpose	Call waiting indication in CPG  Ensure that a call can be succe waiting call. I-MGCF interworki	•	establis	hed if th	ne <b>CPG</b>	indicates that this call is a	
SIP parameter values	180 Ringing: Content-Type: ap	plication	n/ISUP;	CPG er	ncapsul	ated in the MIME body	
ISUP parameter values	CPG: Generic notification indic	ator "Ca	all is a w	aiting c	all"		
Comments	SIP-I		SI	JT		ISUP	
	INVITE(IAM)	<b>→</b>			<b>→</b>	IAM	
	183 Session Progress ACM)	+			+	ACM	
	180 Ringing(CPG)	+			+	CPG(waiting)	
	200 OK INVITE(ANM)	+			+	ANM	
	ACK	<b>→</b>					
			Conver	sation			
	BYE(REL)	<b>→</b>			<b>→</b>	REL	
	200 OK BYE(RLC)	+			+	RLC	

TP409005	SIP reference: F	nce: RFC 3261 [4] ISUP reference:							
					Q.1912.5 [1], clause B.9,				
					Q.733 [i.6], clause 1.5.2.1.1				
TSS reference	ISUP-SIP-ISUP/SS/CW								
SIP selection									
criteria									
ISUP selection									
criteria									
Test purpose	User rejects the waiting	g call							
	Ensure that the SUT pas	ss on a	<b>REL</b> with cause	#21 (c	call rejected) if a busy user rejects				
	the waiting call. O-MGCI	F interv	working.						
SIP parameter	180 Ringing: Content-Ty	/pe: ap	plication/ISUP; A	CM or	CPG encapsulated in the MIME				
values	body								
	480 Temporarily unavail	able: C	Content-Type: ap	plicatio	n/ISUP; REL encapsulated in the				
	MIME body								
ISUP parameter	ACM or CPG: Generic n	otificat	ion indicator "Ca	ll is a v	vaiting call"				
values	REL: Cause #21 (call re	jected)							
Comments	ISUP		SUT		SIP-I				
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)				
	ACM(waiting)	+		+	180 Ringing(ACM)				
	REL(#21)	+		+	480 Temporarily Unavailable(REL)				
	RLC	<b>→</b>		<b>→</b>	ACK				

TP409006	SIP reference: RFC 3261 [4]		ISUP reference: Q.1912.5 [1], clause B.9, Q.733 [i.6], clause 1.5.2.1.1				
TSS reference	ISUP-SIP-ISUP/SS/CW						
SIP selection criteria							
ISUP selection criteria							
Test purpose	User rejects the waiting call Ensure that the SUT pass on a REL wi the waiting call. I-MGCF interworking.	ith ca	use #21 (call rej	ected	d) if a busy user rejects		
SIP parameter	180 Ringing: Content-Type: application	ı/ISU	P; ACM or CPG	enca	apsulated in the Message		
values	body						
	480 Temporarily unavailable: Content-	Type	application/ISU	P; R	EL encapsulated in the		
ISUP parameter	ACM or CPG: Generic notification indic	cator	"Call is a waiting	call'	1		
values	REL: Cause #21 (call rejected)		_				
Comments	SIP-I		SUT		ISUP		
	INVITE(IAM)	<b>→</b>		<b>^</b>	IAM		
	180 Ringing(ACM)	+		+	ACM(waiting)		
	480 Temporarily Unavailable(REL)	+	_	+	REL(#21)		
	ACK	<b>→</b>		<b>→</b>	RLC		

TP409008	SIP reference: F	SIP reference: RFC 3261 [4] ISUP reference:							
					012.5 [1], clause B.9,				
				Q.733	[i.6], clause 1.5.2.1.1				
TSS reference	ISUP-SIP-ISUP/SS/CW								
SIP selection									
criteria									
ISUP selection									
criteria									
Test purpose	Call waiting ignored (e	xpiry of ca	II waiting	supervision t	imer)				
	Ensure that the SUT pas	ss on a <b>RE</b> I	with caus	e #19 (no ans	wer from user, user alerted) if				
	a busy user does not an	swer the wa	aiting call. I	-MGCF interw	orking.				
SIP parameter	180 Ringing: Content-Ty	180 Ringing: Content-Type: application/ISUP; ACM or CPG encapsulated in the MIME							
values	body				•				
	480 Temporarily unavail	able: Conte	ent-Type: a	oplication/ISU	P; REL encapsulated in the				
	MIME body				•				
ISUP parameter	ACM or CPG: Generic n	otification i	ndicator "C	all is a waiting	call"				
values	REL: Cause #19 (no ans	swer from u	ser, user a	lerted)					
Comments	SIP-I		SUT	•	ISUP				
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM				
	180 Ringing(ACM)	+		+	ACM(waiting)				
	T9 expiry			•	, <b>C</b> /				
	- 1			<b>→</b>	REL(#19)				
				+	RLC				
	480 Temporarily	+							
	Unavailable								
	ACK	<b>→</b>							

# 5.3.10 Call Diversion (CFB, CFNR, CFU, CD)

TP410001	SIP reference: RI	FC 3261	[4]		ISUP reference: 2.5 [1], clauses B.6 and B.7, Q.732 [i.4], clause 2.5		
TSS reference	ISUP-SIP-ISUP/SS/Call Diversion						
SIP selection							
criteria							
ISUP selection criteria							
Test purpose	"Call is diverting" indication received in 180 Ringing						
	Verify that a call can be successfully established, if diversion occurs. The <b>ACM</b> contains the <b>generic notification indicator</b> set to "call is diverting", the <b>call diversion information</b> and the <b>redirection number.</b> The Redirection reason is set to <b>CV_redirection_reason</b> . CPG (alerting) is coded as if it has been mapped from the 180 Ringing (CPG).						
	O-MCGF interworking.						
SIP parameter values	183 Session Progress: Content-Type: application/ISUP; ACM encapsulated in the MIME body 180 Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body						
ISUP parameter	ACM: BCI Called party status indicator "No indication"						
values	Generic notification Call diversion information Redirection number CPG: Event indicator=alerting						
Comments	ISUP		SUT		SIP-I		
	IAM	<b>→</b>		→	INVITE(IAM)		
	ACM(no indication)	+		+	183 Session Progress(ACM)		
	CPG(alerting)	+		+	180 Ringing(CPG)		
	ANM	+		+	200 OK INVITE(ANM)		
				<b>→</b>	ACK		
		Conversation					
	REL	<b>→</b>		<b>→</b>	BYE(REL)		
	RLC	+		+	200 OK BYE(RLC)		

TP410002	SIP reference: RFC 3261 [4]			ISUP reference: Q.1912.5 [1], clauses B.6 and B.7, Q.732 [i.4], clause 2.5			
TSS reference	ISUP-SIP-ISUP/SS/Call Diversion						
SIP selection criteria							
ISUP selection criteria							
Test purpose  SIP parameter values	"Call is diverting" indication received in CPG  Verify that a call can be successfully established, if diversion occurs. The ACM contains the generic notification indicator set to "call is diverting", the call diversion information and the redirection number.  The Redirection reason is set to CV_redirection_reason.  180 Ringing (CPG (alerting)) is coded as if it has been mapped from the CPG.  I-MCGF interworking.  183 Session Progress: Content-Type: application/ISUP; ACM encapsulated in the Message body  180 Ringing: Content-Type: application/ISUP; CPG encapsulated in the MIME body						
ISUP parameter values	ACM: BCI Called party status indicator "No indication"  Generic notification  Call diversion information  Redirection number  CPG: Event indicator=alerting						
Comments	SIP-I		SU	T	I	SUP	
	INVITE(IAM)	<b>→</b>		-		AM	
	183 Session Progress(ACM)	+		€		ACM(no indication)	
	180 Ringing(CPG)	+		•		CPG(alerting)	
	200 OK INVITE(ANM)	+		•	- /	MMA	
	ACK	<b>→</b>					
	Conversation						
	BYE(REL)	<b>→</b>		-		REL	
	200 OK BYE(RLC)	+		•	F	RLC	

CV_redirection_reason, TP410001, TP410002					
VA_1	User busy				
VA_2	Unconditional				
VA 3	Deflection immediate response				

TP410003	SIP reference: RFC 3261 [4]			ISUP reference: Q.1912.5 [1], clauses B.6 and B.7, Q.732 [i.4], clause 2.5.2.1.1			
TSS reference	ISUP-SIP-ISUP/SS/Call Diversion						
SIP selection criteria							
ISUP selection criteria							
Test purpose	"Call diversion may occur" received in 180 Ringing(ACM)  Verify that a call can be successfully established, if diversion may occur. The encapsulated ACM indicates that "call diversion may occur" in the optional backward call indicators. The following CPG contains the generic notification indicator set to "call is diverting", the call diversion information and the redirection number, if diversion occurs. The CPG (progress) contains CV_redirection_reason in call diversion information and also Redirection number. The CPG (alerting) is coded as if it has been mapped from ACM, with RnNbRes parameter (optional).  O-MCGF interworking.						
SIP parameter	180 Ringing: Content-Type: application/ISUP; ACM encapsulated in the MIME body						
values	183 Session Progress: Content-Type: application/ISUP; CPG encapsulated in the MIME body						
ISUP parameter values	ACM: BCI Called party status indicator "subscriber free", Optional backward call indicator:  "Call diversion may occur"  CPG: Event information=progress, Call diversion information; Generic notification;  Redirection number  CPG: Event information=alerting						
Comments	ISUP	I	SUT		SIP-I		
	IAM	→		<b>→</b>	INVITE(IAM)		
	ACM(free)	+		+	180 Ringing(ACM)		
	CPG	+		+	183 Session Progress(CPG)		
	CPG(alerting)	+		+	183 Session Progress(CPG)		
	ANM	+		+	200 OK INVITE(ANM)		
				<b>→</b>	ACK		
	Conversation						
	REL	<b>→</b>		<b>→</b>	BYE(REL)		
	RLC	+		+	200 OK BYE(RLC)		

TP410004	SIP reference: RFC 32	261 [4]	Q.	ISUP reference: Q.1912.5 [1], clauses B.6 and B.7, Q.732 [i.4], clause 2.5.2.1.1				
TSS reference	ISUP-SIP-ISUP/SS/Call Divers	ion						
SIP selection								
criteria								
ISUP selection								
criteria								
Test purpose  SIP parameter	"Call diversion may occur" received in ACM  Verify that a call can be successfully established, if diversion may occur. The ACM indicates that "call diversion may occur" in the optional backward call indicators. The following CPG contains the generic notification indicator set to "call is diverting", the call diversion information and the redirection number, if diversion occurs.  The CPG (progress) contains CV_redirection_reason in call diversion information and also Redirection number. The CPG (alerting) is coded as if it has been mapped from ACM, with RnNbRes parameter (optional).  I-MCGF interworking.  180 Ringing: Content-Type: application/ISUP; ACM encapsulated in the MIME body							
values								
values	183 Session Progress: Conten	ı- ı ype. app	lication/15C	IP, CPC	encapsulated in the MilME			
ISUP parameter values	ACM: BCI Called party status i "Call diversion may occ							
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM			
	180 Ringing(ACM)	+		+	ACM(free)			
	183 Session Progress(CPG)	+		+	CPG			
	183 Session Progress(CPG)	+		+	CPG(alerting)			
	200 OK INVITE(ANM)	+		+	ANM			
	ACK	<b>→</b>						
		Co	nversation					
	BYE(REL)	<b>→</b>		<b>→</b>	REL			
	200 OK BYE(RLC)	+		+	RLC			

CV_redirection_reason TP410003, TP410004						
VA_1	No reply					
VA 2	Deflection during alerting					

TP410005	SIP reference: RF0	C 3261 [4] ISUP reference: Q.1912.5 [1], clauses B.6 and B.7, Q.732 [i.4], clause 2.4.2								
TSS reference	ISUP-SIP-ISUP/SS/Call Diversion									
SIP selection										
criteria										
ISUP selection										
criteria										
Test purpose	Multiple diversions -Verify that a call can be successfully established, if multiple diversion occur  Several messages each containing the call diversion information are received, as if									
	multiple forwardings have o				,					
	The CV_redirection_reason	on is us	sed as redire	ection reasor	ı.					
	The Redirection number re-	strictior	n parameter	is passed or	n.					
	O-MCGF interworking.									
SIP parameter		ntent-Ty	/pe: applicat	tion/ISUP; A0	CM encapsulated in the MIME					
values	body									
		ntent-Ty	/pe: applicat	tion/ISUP; CI	PG encapsulated in the MIME					
	body		-4:/IOLID	000	and a facility of a DAIDAT to a short					
ISUP parameter	180 Ringing: Content-Type ACM: BCI Called party sta				sulated in the MilME body					
values	Generic notification	itus ina	icator ino in	idication						
values	Call diversion inform	ation F	Pedirection r	eason uncor	nditional					
	Redirection number		(edirection i	eason uncor	iditional					
	CPG1: Event information=p		s							
	Generic notification	o g. o c								
	Call diversion inform	nation F	Redirection r	eason CV_re	edirection_reason					
	Redirection number			_	_					
	Redirection number	restrict	tion							
	CPG2: Event information=a	alerting,	, Redirection	number res	triction					
Comments	ISUP		SUT		SIP-I					
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)					
	ACM(no indication)	+		<b>←</b>	183 Session Progress(ACM)					
	CPG1	+		<b>←</b>	183 Session Progress(CPG)					
	CPG2(alerting)	+		<b>←</b>	180 Ringing(CPG)					
	ANM	+		<b>←</b>	200 OK INVITE(ANM)					
				→	ACK					
			Conversa							
	REL	→		<b>→</b>	BYE(REL)					
	RLC	+	<u> </u>	+	200 OK BYE(RLC)					

TP410006	SIP reference: RFC 32	61 [4]		Q.1	912.5	SUP reference: [1], clauses B.6 and B.7, 32 [i.4], clause 2.4.2					
TSS reference	ISUP-SIP-ISUP/SS/Call Divers	ISUP-SIP-ISUP/SS/Call Diversion									
SIP selection criteria											
ISUP selection criteria											
Test purpose	Multiple diversions -Verify that a call can be successfully established, if multiple diversion occur  Several messages each containing the call diversion information are received, as if multiple forwardings have occurred.  The CV_redirection_reason is used as redirection reason.  The Redirection number restriction parameter is passed on.  I-MCGF interworking.										
SIP parameter values	183 Session Progress: Content body 183 Session Progress: Content body	183 Session Progress: Content-Type: application/ISUP; ACM encapsulated in the MIME body 183 Session Progress: Content-Type: application/ISUP; CPG encapsulated in the MIME									
ISUP parameter values	ACM: BCI Called party status Generic notification Call diversion informatio Redirection number CPG: Event information=progre Generic notification Call diversion informatio Redirection number Redirection number rest	indicaton In Redi In Redi In Redi	or "No ind rection re rection re	dication' eason ui eason <b>C</b>	ncondi V_red	tional irection_reason					
Comments	CPG: Event information=alertin	g, Red	irection r	iumber i	restrict						
Comments	SIP-I	_	SU	<u> </u>	<b>→</b>	ISUP IAM					
	INVITE(IAM)	<b>→</b>			<del>7</del>						
	183 Session Progress(ACM) 183 Session Progress(CPG)	<del>-</del>			<del></del>	ACM(no indication) CPG1					
	180 Ringing(CPG)	+			+	CPG2(alerting)					
		=									
					_	AINIVI					
	ACK	7	Conver	sation							
	RVE(REL)	-	CONVEN	Sation		REI					
		_									
	200 OK INVITE(ANM) ACK  BYE(REL) 200 OK BYE(RLC)	+ + + +	Conver	sation	<b>← → ←</b>	REL RLC					

CV_redirection_reason, TP410005, TP410006					
VA_1	No reply				
VA_2	Deflection during alerting				
VA_3	User busy				
VA_4	Unconditional				
VA_5	Deflection immediate response				

	TP410007	SIP reference: RFC	3261 [4]		ISUP reference:
TSS reference   ISUP-SIP-ISUP/SS/Call Diversion   ISUP-SIP-ISUP/SS/Call Diversion   SIP-ISUP-SIP-ISUP/SS/Call Diversion   SIP-ISUP-SIP-ISUP/SS/Call Diversion   SIP-ISUP-SIP-					
SIP selection criteria  ISUP selection criteria  Test purpose    Notification procedures for a diverting call - after the diverting exchange				Q.732	2 [i.4], clause 2.5.2.2.1
Notification procedures for a diverting call - after the diverting exchange		ISUP-SIP-ISUP/SS/Call Dive	ersion		
Notification procedures for a diverting call - after the diverting exchange					
Test purpose    Notification procedures for a diverting call - after the diverting exchange					
Notification procedures for a diverting call - after the diverting exchange					
Verify that the IUT can successfully pass on in both directions (on the leg after the diversion) all the diversion information from the diverting exchange.  It has to be checked that the following signalling information is passed on in the forward direction:  redirecting number (see note); original called number (see note); redirection information.  It has to be checked that the following signalling information is passed on in the backward direction:  redirection number restriction parameter (in ACM /CPG /ANM /CON).  O-MCGF interworking.  INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; IAM encapsulated in the MIME body 200 OK INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; ANM encapsulated in the MIME body  ISUP parameter values  Comments  ISUP   IAM: Redirection address restriction  ISUP   SUF   SIP-I   IAM   → INVITE(IAM)  CASE A  ACM   ← I83 Session   Progress(ACM,no indication) Progress(ACM,no indication) Progress(ACM,no indication)  CPG   ← I80 Ringing(CPG,alerting) ANM   ← I80 Ringing(CPG,ale					
diversion) all the diversion information from the diverting exchange.  It has to be checked that the following signalling information is passed on in the forward direction:  redirecting number (see note); original called number (see note); redirection information.  It has to be checked that the following signalling information is passed on in the backward direction: redirection number restriction parameter (in ACM /CPG /ANM /CON).  O-MCGF interworking.  SIP parameter values  INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; IAM encapsulated in the IMIME body 200 KI INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; ANM encapsulated in the MIME body  ISUP parameter values  IAM: Redirecting number, Original called number, Redirection information ANM: Redirection address restriction  Comments  ISUP SUT SIP-I IAM	lest purpose	Notification procedures for a	diverting call - a	after the divertin	g exchange
It has to be checked that the following signalling information is passed on in the forward direction:  redirecting number (see note); original called number (see note); redirection information.  It has to be checked that the following signalling information is passed on in the backward direction: redirection number restriction parameter (in ACM /CPG /ANM /CON).  O-MCGF interworking.  INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; IAM encapsulated in the MIME body 200 OK INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; ANM encapsulated in the MIME body  ISUP parameter values  Comments  ISUP SUT SIP-I IAM SUT SUT SIP-I IAM SUT					
direction:  redirecting number (see note); original called number (see note); redirection information.  It has to be checked that the following signalling information is passed on in the backward direction: redirection number restriction parameter (in ACM /CPG /ANM /CON).  O-MCGF interworking.  INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; IAM encapsulated in the MIME body 200 OK INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; ANM encapsulated in the MIME body  ISUP parameter values  IAM: Redirecting number, Original called number, Redirection information ANM: Redirection address restriction  Comments  ISUP IAM  CASE A  ACM  CASE A  ACM  COM  CASE A  ACM  COM  COM  COM  COM  COM  COM  CO		diversion) all the diversion in	formation from	he diverting exc	change.
original called number (see note); redirection information.  It has to be checked that the following signalling information is passed on in the backward direction: redirection number restriction parameter (in ACM /CPG /ANM /CON). O-MCGF interworking.  INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; IAM encapsulated in the MIME body 200 OK INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; ANM encapsulated in the MIME body  ISUP parameter values  IAM: Redirecting number, Original called number, Redirection information ANM: Redirection address restriction  ISUP IAM SUT ISIP-I IAM SUT INVITE(IAM) CASE A  ACM ← 183 Session Progress(ACM,no indication)  CPG ← 180 Ringing(CPG,alerting) ANM ← 200 OK INVITE(ANM)  → ACK  CASE B  CON ← 200 OK INVITE(CON)  → ACK  Conversation  REL → BYE(REL) RLC ← 200 OK BYE(RLC)		direction:		ling information	is passed on in the forward
redirection information.  It has to be checked that the following signalling information is passed on in the backward direction:  redirection number restriction parameter (in ACM /CPG /ANM /CON).  O-MCGF interworking.  INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; IAM encapsulated in the MIME body 200 OK INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; ANM encapsulated in the MIME body  ISUP parameter values  Comments  ISUP SUT SIP-I IAM → INVITE(IAM)  CASE A  ACM ← 183 Session  Progress(ACM,no indication)  CPG ← 180 Ringing(CPG,alerting)  ANM ← 200 OK INVITE(ANM)  CASE B  CON ← 200 OK INVITE(CON)  ACK  CASE B  CON ← 200 OK INVITE(CON)  ACK  COnversation  REL → BYE(REL)  RLC ← 200 OK BYE(RLC)				7).	
It has to be checked that the following signalling information is passed on in the backward direction:  redirection number restriction parameter (in ACM /CPG /ANM /CON).  O-MCGF interworking.  INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; IAM encapsulated in the MIME body 200 OK INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; ANM encapsulated in the MIME body  ISUP parameter values  IAM: Redirecting number, Original called number, Redirection information ANM: Redirection address restriction  Comments  ISUP SUT IAM SIP-I IAM CASE A ACM CASE A ACM CASE A ACM CONSINVITE(IAM) CASE A ACM SIB-I IAM SIP-I IA				<b>-</b> ),	
direction:  redirection number restriction parameter (in ACM /CPG /ANM /CON).  O-MCGF interworking.  INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; IAM encapsulated in the MIME body 200 OK INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; ANM encapsulated in the MIME body  ISUP parameter values  Comments  ISUP SUT SIP-I IAM → INVITE(IAM)  CASE A  ACM ← 183 Session Progress(ACM,no indication)  CPG ← 180 Ringing(CPG,alerting)  ANM ← ← 200 OK INVITE(ANM)  CASE B  CON ← 200 OK INVITE(CON)  ACK  CASE B  CON ← 200 OK INVITE(CON)  REL → BYE(REL) RLC ← 200 OK BYE(RLC)				ling information	is passed on in the backward
O-MCGF interworking.  SIP parameter values  INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; IAM encapsulated in the MIME body 200 OK INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; ANM encapsulated in the MIME body  ISUP parameter values  IAM: Redirecting number, Original called number, Redirection information ANM: Redirection address restriction  Comments  ISUP SUT SIP-I IAM			ronowing orgina	mig miorination	io paecea en in ine saekwara
INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; IAM encapsulated in the MIME body 200 OK INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; ANM encapsulated in the MIME body  ISUP parameter values  IAM: Redirection number, Original called number, Redirection information ANM: Redirection address restriction  ISUP SUT SIP-I  IAM SINVITE(IAM)  CASE A  ACM F 183 Session  Progress(ACM,no indication)  CPG F 180 Ringing(CPG,alerting)  ANM F 200 OK INVITE(ANM)  ACK  CASE B  CON F 200 OK INVITE(CON)  ACK  Conversation  REL S BYE(REL)  RLC F 200 OK BYE(RLC)		redirection numb	er restriction p	arameter (in AC	CM /CPG /ANM /CON).
encapsulated in the MIME body 200 OK INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; ANM encapsulated in the MIME body  ISUP parameter values  ISUP   IAM: Redirection address restriction  ISUP   SUT   SIP-I   IAM   → INVITE(IAM)  CASE A  ACM   ←   183 Session   Progress(ACM,no indication)  CPG   ←   ← 180 Ringing(CPG,alerting)  ANM   ←   ← 200 OK INVITE(ANM)  CASE B  CON   ←   ← 200 OK INVITE(CON)    ACK   ←   ← 200 OK INVITE(CON)   → ACK     Conversation     REL   →   BYE(REL)     RLC   ←   ← 200 OK BYE(RLC)		O-MCGF interworking.	•	`	•
200 OK INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; ANM encapsulated in the MIME body  IAM: Redirecting number, Original called number, Redirection information ANM: Redirection address restriction  Comments  ISUP SUT SIP-I IAM	SIP parameter	INVITE: Content-Type: multi	part/mixed, Con	tent-Type: appli	cation/ISUP; IAM
encapsulated in the MIME body  ISUP parameter values  Comments  ISUP  IAM: Redirection address restriction  ISUP  IAM  CASE A  ACM  CPG  ANM  CASE B  CON  CON  CON  CON  CASE B  CON  CASE B  CON  CASE B  CON  CON  CON  CON  CON  CON  CON  CO	values				
IAM: Redirecting number, Original called number, Redirection information ANM: Redirection address restriction				ced, Content-Ty	pe: application/ISUP; ANM
Values         ANM: Redirection address restriction           ISUP         SUT         SIP-I           IAM         →         →         INVITE(IAM)           CASE A         ACM         ←         183 Session Progress(ACM,no indication)           CPG         ←         180 Ringing(CPG,alerting)           ANM         ←         200 OK INVITE(ANM)           →         ACK           CASE B         CON         ←         200 OK INVITE(CON)           →         ACK           Conversation         REL         →         BYE(REL)           RLC         ←         200 OK BYE(RLC)					
ISUP				mber, Redirection	on information
IAM					I
CASE A         ACM       ←       183 Session Progress(ACM,no indication)         CPG       ←       180 Ringing(CPG,alerting)         ANM       ←       200 OK INVITE(ANM)         →       ACK         CASE B       CON       ←       200 OK INVITE(CON)         →       ACK         Conversation         REL       →       BYE(REL)         RLC       ←       200 OK BYE(RLC)	Comments				
ACM ← 183 Session Progress(ACM,no indication)  CPG ← 180 Ringing(CPG,alerting)  ANM ← 200 OK INVITE(ANM)  ACK  CASE B  CON ← 200 OK INVITE(CON)  ACK  Conversation  REL → BYE(REL)  RLC ← 200 OK BYE(RLC)			<b>→</b>	→	INVITE(IAM)
CPG         ←         180 Ringing(CPG, alerting)           ANM         ←         200 OK INVITE(ANM)           →         ACK           CASE B         ←         200 OK INVITE(CON)           →         ACK           Conversation           REL         →         BYE(REL)           RLC         ←         200 OK BYE(RLC)					Trans.
CPG       ←       180 Ringing(CPG,alerting)         ANM       ←       200 OK INVITE(ANM)         →       ACK         CASE B       ←       200 OK INVITE(CON)         CON       ←       200 OK INVITE(CON)         →       ACK         Conversation         REL       →       BYE(REL)         RLC       ←       200 OK BYE(RLC)		ACM	<b>←</b>	←	
ANM ←					Progress(ACM,no indication)
CASE B         ←         200 OK INVITE(CON)           CON         ←         200 OK INVITE(CON)           ACK         Conversation         BYE(REL)           REL         →         BYE(REL)           RLC         ←         200 OK BYE(RLC)					
CASE B         ←         200 OK INVITE(CON)           CON         →         ACK           Conversation         BYE(REL)           RLC         ←         200 OK BYE(RLC)		ANM	+		
CON		0.105.5		→	JACK
Conversation           REL         →         BYE(REL)           RLC         ←         200 OK BYE(RLC)			<del></del>	T =	loop out the attraction
Conversation           REL         →         BYE(REL)           RLC         ←         200 OK BYE(RLC)		CON	+		
REL         →         BYE(REL)           RLC         ←         200 OK BYE(RLC)					ACK
RLC ← 200 OK BYE(RLC)					
NOTE: Altered in Gateways.			+	<u> </u>	200 OK BYE(RLC)
	NOTE: Altered in	Gateways.			

TP410008	SIP reference: RF	C 3261	[4]		ISUP reference:			
					[1], clauses B.6 and B.7,			
				Q.732	2 [i.4], clause 2.5.2.2.1			
TSS reference	ISUP-SIP-ISUP/SS/Call D	iversion						
SIP selection								
criteria								
ISUP selection								
criteria	1							
Test purpose	Notification procedures for	a divert	ing call - at	ter the divertin	g exchange			
	Verify that the IUT can successfully pass on in both directions (on the leg after the diversion) all the diversion information from the diverting exchange It has to be checked that the following signalling information is passed on in the forward direction:  redirecting number (see note); original called number (see note); redirection information.  It has to be checked that the following signalling information is passed on in the backward direction: redirection number restriction parameter (in ACM /CPG /ANM /CON).							
SIP parameter	I-MCGF interworking. INVITE: Content-Type: mu	ıltin ort/m	ived Cente	nt Tuna, anali	action/ICLID: IAM			
values	encapsulated in the MIME		ixea, Conte	int-Type, appii	Cation/150P, IAW			
values			ıltinart/miye	d Content-Ty	pe: application/ISUP; ANM			
	encapsulated in the MIME		inipartimize	u, content ry	pe. application/1001 , / tivivi			
ISUP parameter	IAM: Redirecting number,		called num	her Redirection	on information			
values	ANM: Redirection address			oor, recambour	on intermediation			
Comments	SIP-I		SU	Γ	ISUP			
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM			
	CASE A			I	1			
	183 Session	+		+	ACM(no indication)			
	Progress(ACM)				,			
	180 Ringing(CPG)	+		+	CPG(alerting)			
	200 OK INVITE(ANM)	+		+	ANM			
	ACK	<b>→</b>						
	CASE B			1	•			
	200 OK INVITE(CON)	<b>←</b>		<b>+</b>	CON			
	ACK	<b>→</b>						
	_		Convers	ation				
	BYE(REL)	<b>→</b>		<del>→</del>	REL			
	200 OK BYE(RLC)	<del></del>		+	RLC			
NOTE: Altered in	n Gateways.		I		1 0			
THO I E. THEOLEGI	· Catoways.							

TP410009	SIP reference: RF	C 3261	[4]	Q.1912.5	SUP reference: [1], clauses B.6 and B.7, [i.2], clause 3.5.2.4.1				
TSS reference	ISUP-SIP-ISUP/SS/Call Di	version							
SIP selection criteria									
ISUP selection criteria	PICS 10/1 AND PICS 1/7								
Test purpose	Original called number in the outgoing international gateway  Verify that the outgoing international gateway checks and manipulates the original called number according to the procedures as defined for CLIP:  Discarding the original called number if case of bilateral agreements.  The PTC will send an IAM with OriCdNb.								
SIP parameter	INVITE: Content-Type: mu	ltipart/m	ixed, Conten	t-Type: applic	ation/ISUP; IAM containing				
values	an Original called number of	encapsı	lated in the N	ЛIМЕ body					
ISUP parameter values	IAM: No original called nun	nber pre	esent						
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	<b>→</b>		→	IAM				
	180 Ringing(ACM)	+		+	ACM				
	200 OK INVITE(ANM)								
	ACK	ACK →							
			Conversa	tion					
	BYE(REL)	<b>→</b>		<b>→</b>	REL				
	200 OK BYE(RLC)	+		+	RLC				

TP410010	SIP reference: RF	C 3261	[4]	Q.1912		SUP reference: [1], clauses B.6 and B.7,			
				Q.7	31	[i.2], clause 4.5.2.1.1			
TSS reference	ISUP-SIP-ISUP/SS/Call D	iversion							
SIP selection criteria									
ISUP selection criteria	PICS 1/7								
Test purpose	Original called number in the outgoing international gateway Verify that the outgoing international gateway checks and manipulates the original called number according to the procedures as defined for CLIP: Converting the original called number to international format with transparent transferral of address presentation restricted indicator. The PTC will send an IAM with a national (significant) OriCdNb.								
SIP parameter	INVITE: Content-Type: mu	ultipart/m	ixed, Conte	nt-Type: ap	plica	ation/ISUP; IAM containing			
values	an Original called number	called n	umber enca	psulated in	the	MIME body			
ISUP parameter values	IAM: Original called numb	er "Interi	national num	nber"					
Comments	SIP-I		SUT			ISUP			
	INVITE(IAM)	<b>→</b>		-	<b>&gt;</b>	IAM			
	180 Ringing(ACM)	+		•	-	ACM			
	200 OK INVITE(ANM)	+		•	-	ANM			
	ACK	ACK →							
			Convers	ation					
	BYE(REL)	<b>→</b>		-	<b>&gt;</b>	REL			
	200 OK BYE(RLC)	+		•	-	RLC			

TP410011	SIP reference: RFC	3261	[4]	Ο 19	-	SUP reference: [1], clauses B.6 and B.7,		
						[i.2], clause 4.5.2.1.1		
TSS reference	ISUP-SIP-ISUP/SS/Call Div	ersion	'					
SIP selection								
criteria								
ISUP selection criteria	PICS 1/7							
Test purpose	Original called number in the outgoing international gateway  Verify that the outgoing international gateway checks and manipulates the original called number according to the procedures as defined for CLIP:  Discarding the original called number, if the address is marked not available.  The PTC will send an IAM with an "address not available" OriCdNb.							
SIP parameter	INVITE: Content-Type: mult	tipart/m	ixed, Conte	nt-Type: a	applic	ation/ISUP; IAM containing		
values	an Original called number c	alled n	umber enca	osulated i	in the	MIME body		
ISUP parameter	IAM: No original called num	ber pre	esent					
values								
Comments	SIP-I		SUT	•		ISUP		
	INVITE(IAM)	<b>→</b>			<b>→</b>	IAM		
	180 Ringing(ACM)	+			+	ACM		
	200 OK INVITE(ANM)	+			+	ANM		
	ACK →							
			Convers	ation				
	BYE(REL)	<b>→</b>			<b>→</b>	REL		
	200 OK BYE(RLC)	+			+	RLC		

TP410012	SIP reference: RF	C 3261	[4]		5 [1]	IP reference: , clauses B.6 and B.7, 2], clause 4.5.2.1.1			
TSS reference	ISUP-SIP-ISUP/SS/Call D	iversion							
SIP selection									
criteria									
ISUP selection criteria	PICS 1/8								
Test purpose	Original called number in the incoming international gateway Verify that the incoming international gateway checks and manipulates the original called number according to the procedures as defined for CLIP. Applicable tests: Converting the original called number to national format, if necessary (own country code).								
SIP parameter values	INVITE: Content-Type: mu an Original called number								
ISUP parameter values	IAM: Original called number								
Comments	SIP-I		SUT		IS	SUP			
	INVITE(IAM)	<b>→</b>		<b>→</b>	IΑ	M			
	180 Ringing(ACM)	+		+	Α	CM			
	200 OK INVITE(ANM)	+		+	Al	NM			
	ACK	<b>→</b>							
		Conversation							
	BYE(REL)	<b>→</b>		<b>→</b>	R	EL			
	200 OK BYE(RLC)	+		+	R	LC			

TP410013	SIP reference: RF	C 3261	[4]	ISUP reference: Q.1912.5 [1], clauses B.6 and B.7, Q.731 [i.2], clause 4.5.2.1.1				
TSS reference	ISUP-SIP-ISUP/SS/Call D	iversion						
SIP selection								
criteria								
ISUP selection	PICS 10/2 AND PICS 1/7							
criteria								
Test purpose	Redirecting number in the							
					anipulates the <b>redirecting</b>			
	number according to the p Discarding the redirec	orocedur ting nu	es as define nber if case	ed for CLIP: e of bilateral ag	greements.			
SIP parameter	INVITE: Content-Type: mu	ultipart/m	ixed, Conte	ent-Type: applic	cation/ISUP; IAM containing a			
values	Redirecting number encap	sulated	in the MIME	body	_			
ISUP parameter values	IAM: No Redirecting numb	er prese	ent					
Comments	SIP-I		SU	Γ	ISUP			
	INVITE(IAM)	<b>→</b>		→	IAM			
	180 Ringing(ACM)	+		<b>+</b>	ACM			
	200 OK INVITE(ANM)	+		+	ANM			
	ACK →							
			Convers	ation				
	BYE(REL)	<b>→</b>		→	REL			
	200 OK BYE(RLC)	+		+	RLC			

TP410014	SIP reference: RF0	3261	[4]		SUP reference: 1], clauses B.6 and B.7,				
		Q.731 [i.2], clause 4.5.2.1.1							
TSS reference	ISUP-SIP-ISUP/SS/Call Div	ersion/							
SIP selection criteria									
ISUP selection criteria	PICS 1/7								
Test purpose	Verify that the outgoing inte number according to the pro- Discarding the redirect	Redirecting number in the outgoing international gateway  Verify that the outgoing international gateway checks and manipulates the redirecting number according to the procedures as defined for CLIP:  Discarding the redirecting number, if the address is marked not available.  The PTC will send an IAM with an "address not available" RgNb.							
SIP parameter						ation/ISUP; IAM containing a			
values	Redirecting number encaps					,			
ISUP parameter	IAM: No Redirecting number								
values		•							
Comments	SIP-I		SUT			ISUP			
	INVITE(IAM)	<b>→</b>			<b>→</b>	IAM			
	180 Ringing(ACM)	+			<del>(</del>	ACM			
	200 OK INVITE(ANM)	← ← ANM							
	ACK	<b>→</b>			•				
			Conversa	tion					
	BYE(REL)	<b>→</b>			<b>→</b>	REL			
	200 OK BYE(RLC)	+			<del>(</del>	RLC			

TP410015	SIP reference: RF	FC 3261	C 3261 [4] ISUP reference: Q.1912.5 [1], clauses B.6 and B.7, Q.732 [i.4], clause 2.5.2.3, Q.731 [i.2], clause 3.5.2.3						
TSS reference:	ISUP-SIP-ISUP/SS/Call D	iversion							
SIP selection criteria									
ISUP selection criteria	PICS 1/7								
Test purpose  SIP parameter	Redirecting number in the outgoing international gateway  Verify that the outgoing international gateway checks and manipulates the redirecting number according to the procedures as defined for CLIP:  Converting the redirecting number to international format with transparent transferral of address presentation restriction indicator.  The PTC will send an IAM with a national significant RgNb.  INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; IAM containing a								
values	Redirecting number "Nation	onal num	ber" encaps	sulated in the	MIME body				
ISUP parameter values	IAM: Redirecting number	"Internati	onal numbe	r"					
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	→		→	IAM				
	180 Ringing(ACM)	+		←	ACM				
	200 OK INVITE(ANM)	← ANM							
	ACK	<b>→</b>							
			Convers	ation					
	BYE(REL)	→		→	REL				
	200 OK BYE(RLC)	+		<b>←</b>	RLC				

TP410016	SIP reference: RFC	3261	[4]		SUP reference: [1], clauses B.6 and B.7, [i.4], clause 2.5.2.3, [i.2], clause 3.5.2.3	
TSS reference	ISUP-SIP-ISUP/SS/Call Div	ersion				
SIP selection criteria						
ISUP selection	PICS 1/8					
criteria						
Test purpose	Redirecting number in the incoming international gateway  Verify that the incoming international gateway checks and manipulates the redirecting number according to the procedures as defined for CLIP:  Converting the redirecting number to national format, if necessary (own country code).  The PTC will send an IAM with RgNb.					
SIP parameter						ation/ISUP; IAM containing a
values	Redirecting number "Internation			capsulate	ed in th	ne MIME body
ISUP parameter values	IAM: Redirecting number "n	ational	number"			
Comments	SIP-I		SUT	-		ISUP
	INVITE(IAM)	<b>→</b>			<b>→</b>	IAM
	180 Ringing(ACM)	+			+	ACM
	200 OK INVITE(ANM)	+			+	ANM
	ACK	<b>→</b>				
			Convers	ation	•	
	BYE(REL)	<b>→</b>			<b>→</b>	REL
	200 OK BYE(RLC)	<b>←</b>			+	RLC

TP410017	SIP reference: RF	C 3261	[4]	ISUP reference: Q.1912.5 [1], clauses B.6 and B.7, Q.732 [i.4], clause 2.5.2.3, Q.731 [i.2], clause 3.5.2.3				
TSS reference	ISUP-SIP-ISUP/SS/Call D	iversion						
SIP selection criteria								
ISUP selection criteria	PICS 1/8 AND 10/4							
Test purpose	Redirecting number in the Verify that the incoming in number according to the Adding a prefix to an in The PTC will send an IAM	iternatior procedur nternatio	nal gateway es as define nal <b>redirect</b>	checks and ned for CLIP:	vay nanipulates the redirecting			
SIP parameter	INVITE: Content-Type: mu	ultipart/m	nixed, Conte	nt-Type: appl	ication/ISUP; IAM containing a			
values	Redirecting number encap	osulated	in the MIME	body	-			
ISUP parameter values	IAM: Redirecting number							
Comments	SIP-I		SUT	•	ISUP			
	INVITE(IAM)	<b>→</b>		→	IAM			
	180 Ringing(ACM)	+		+	ACM			
	200 OK INVITE(ANM)	← ← ANM						
	ACK	<b>→</b>						
			Convers	ation				
	BYE(REL)	<b>→</b>		<b>→</b>	REL			
	200 OK BYE(RLC)	+		+	RLC			

TP410018	SIP reference: RF	C 3261	C 3261 [4] ISUP reference: Q.1912.5 [1], clauses B.6 and B.7 Q.732 [i.4], clause 2.5.2.4, Q.731 [i.2], clause 3.5.2.4					
TSS reference	ISUP-SIP-ISUP/SS/Call D	iversion						
SIP selection criteria								
ISUP selection criteria	PICS 10/5 AND PICS 1/8							
Test purpose	Verify that the incoming in number according to the p discarding the redirect	Redirection number in the incoming international gateway Verify that the incoming international gateway checks and manipulates the redirection number according to the procedures defined for COLP: discarding the redirection number in case of bilateral agreements; removes the redirection number restriction parameter.						
SIP parameter values	number encapsulated in the 200 OK INVITE: Content-	ne MIMÉ Γype: mι	body lltipart/mixed	d, Content-1	CM containing a Redirection  Type: application/ISUP; ANM capsulated in the MIME body			
ISUP parameter values	ACM: Called party status= Generic notification Call diversion inform No Redirection num ANM: No Redirection num	no indica n mation R nber	ation ledirection re	eason unco				
Comments	ISUP		SUT		SIP-I			
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)			
	ACM(no indication)	+		+	183 Session Progress(ACM)			
	CPG	+		+	180 Ringing(CPG)			
	ANM	+		+	200 OK INVITE(ANM)			
				<b>→</b>	ACK			
			Conversa	tion				
	REL	<b>→</b>		<b>→</b>	BYE(REL)			
	RLC	+		+	200 OK BYE(RLC)			

TP410019	SIP reference: RFC	3261	[4]	Q.7	ISUP reference: 5 [1], clauses B.6 and B.7, 32 [i.4], clause 2.5.2.3, '31 [i.2], clause 3.5.2.3		
TSS reference	ISUP-SIP-ISUP/SS/Call Div	ersion					
SIP selection criteria							
ISUP selection criteria	PICS 1/7						
Test purpose	Redirection number in the outgoing international gateway  Verify that the outgoing international gateway checks and manipulates the redirection number according to the procedures defined for COLP:  Converting the redirection number to national format, if necessary (own country code):  1. the PTC will provide the necessary stimulus;  2. ACM with CDInf, GenNot = "call is diverting" and an international RnNb with own CC.						
SIP parameter					CM containing a Redirection		
values	number "International numb						
ISUP parameter	ACM: Called party status=n	o indica	ation				
values	Generic notification						
	Call diversion inform			eason uncon	nditional		
•	Redirection number	"Nation			loip i		
Comments	ISUP		SUT		SIP-I		
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)		
	ACM(no indication)	+		<del>-</del>	183 Session Progress(ACM)		
	CPG	_		<del>-</del>	180 Ringing(CPG)		
	ANM	← ← 200 OK INVITE(ANM)  → ACK					
			Conversa		ACK		
	REL	<b>→</b>	Conversa	<del>                                   </del>	DVE(DEL)		
		<del>7</del>		+	BYE(REL)		
	RLC			7	200 OK BYE(RLC)		

TP410020	SIP reference: RFC	C 3261 [4] ISUP reference: Q.1912.5 [1], clauses B.6 and B.7, Q.732 [i.4], clause 2.5.2.3, Q.731 [i.2], clause 3.5.2.3					
TSS reference	ISUP-SIP-ISUP/SS/Call Div	ersion					
SIP selection criteria							
ISUP selection criteria	PICS 1/8						
Test purpose	Redirection number in the incoming international gateway  Verify that the incoming international gateway checks and manipulates the redirection number according to the procedures defined for COLP:  Converting the redirection number to international format.						
SIP parameter values	183 Session Progress: Connumber "National number"				M containing a Redirection		
ISUP parameter	ACM: Called party status=n						
values	Generic notification Call diversion inform Redirection number	ation R	edirection rea		ditional		
Comments	ISUP		SUT		SIP-I		
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)		
	ACM(no indication)	<del>(</del>		+	183 Session Progress(ACM)		
	CPG	← 180 Ringing(CPG)					
	ANM	← 200 OK INVITE(ANM)					
		→ ACK					
			Conversation	n			
	REL	<b>→</b>		<b>→</b>	BYE(REL)		
	RLC	+		+	200 OK BYE(RLC)		

TP410021	SIP reference: RFC	3261	[4]		ISUP reference: .5 [1], clauses B.6 and B.7, 31 [i.2], clause 5.5.2.3.1					
TSS reference	ISUP-SIP-ISUP/SS/Call Div	ersion								
SIP selection criteria										
ISUP selection criteria	PICS 1/8 AND PICS 10/6	PICS 1/8 AND PICS 10/6								
Test purpose	Redirection number in the outgoing international gateway  Verify that the outgoing international gateway checks and manipulates the redirection number according to the procedures defined for COLP:  Adding a prefix to an international redirection number.  The PTC will provide the necessary stimulus.ACM with CDInf, GenNot = "call is diverting" and an international RnNb with foreign country code.									
SIP parameter	183 Session Progress: Con	tent-Ty	pe: applicati	on/ISUP; A	CM containing a Redirection					
values	number "International numb	er" end	apsulated in	the MIME	body					
ISUP parameter	ACM: Called party status=n	o indica	ation							
values	Generic notification Call diversion inform Redirection number				nditional					
Comments	ISUP		SUT		SIP-I					
	IAM	<b>→</b>		→	INVITE(IAM)					
	ACM(no indication)	+		+	183 Session Progress(ACM)					
	CPG	+		+	180 Ringing(CPG)					
	ANM	← 200 OK INVITE(ANM)								
		→ ACK								
			Conversat	ion						
	REL	<b>→</b>		<b>→</b>	BYE(REL)					
	RLC	+		+	200 OK BYE(RLC)					

## 5.3.11 CONF

TP411001	SIP reference: RFC 3261 [4	<b>4</b> ]	Q.1912.	P reference: 5 [1], clause B.14, .7], clause 1.6.15						
TSS reference	ISUP-SIP-ISUP/SS/CONF									
SIP selection										
criteria										
ISUP selection										
criteria										
Test purpose	Generic notification transfer "confe	erence e	stablished" and "oth	er party added"						
	To verify that the IUT can success CPG message:  1. assist a call set up from ISUP  2. check that the notification "con conferee at SIP-I;  3. check the notification "other part of the conference of the confere	to SIP-I; ference	established" is rece							
SIP parameter	INFO/INVITE: Content-Type: mult	inart/mix	red Content-Type: a	ennlication/ISLIP: CPG						
values	encapsulated in the MIME body	ipartini	iou, comon Typo. c	application/1001, of 0						
ISUP parameter	CPG: Generic notification: confere	ence esta	ablished							
values	CPG: Generic notification: other p									
Comments	ISUP		SUT	SIP-I						
	IAM	<b>→</b>	<b>→</b>							
	ACM	+	+	` '						
	ANM	+	+	<u> </u>						
			<b>→</b>	, ,						
	Conversation									
	Case A									
	CPG(conference established)	<b>→</b>	<b>→</b>	INVITE(CPG,sendrecv)						
			<del>(</del>	, , ,						
			<b>→</b>	` ,						
	CASE B									
	CPG(conference established)	→	<b>→</b>	INFO(CPG)						
			<del>(</del>							
	CASE A									
	CPG(other party added)	<b>→</b>	<b>→</b>	INVITE(CPG,sendrecv)						
	, , , , , , , , , , , , , , , , , , , ,		<del>-</del>							
			<b>→</b>							
	CASE B									
	CPG(other party added)	→	<b>→</b>	INFO(CPG)						
			<del>(</del>	,						
				, ,						
	REL	<b>→</b>	<b>→</b>	BYE(REL)						
	RLC	+	+							

TP411002	SIP reference: RFC 3261 [4]				ISUP reference: Q.1912.5 [1], clause B.14, Q.734 [i.7], clause 1.6.15					
TSS reference	ISUP-SIP-ISUP/SS/CON	ISUP-SIP-ISUP/SS/CONF								
SIP selection										
criteria										
ISUP selection										
criteria										
Test purpose	Generic notification trans	fer "c	onference estab	lished	d" and "other party added"					
	CPG message:  1. Assist a call set up fro	om SII ation '	P-I to ISUP;		er the required notifications in/from the ed" is received in the CPG from					
	<ol><li>Check the notification I-MGCF interworking.</li></ol>		er party added" in	n the	CPG.					
SIP parameter		vpe: i	multipart/mixed	Cont	ent-Type: application/ISUP; CPG					
values	encapsulated in the MIM			00.11	on Type application ( or o					
ISUP parameter	CPG: Generic notification			hed						
values	CPG: Generic notification	n: othe	er party added							
Comments	SIP-I		SUT		ISUP					
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM					
	180 Ringing(ACM)	+		+	ACM					
	200 OK INVITE(ANM)	+		+	ANM					
	ACK	<b>→</b>								
			Conversation							
	CASE A									
	INFO(CPG)	<b>→</b>		<b>→</b>	CPG(conference established)					
	200 OK INFO	+								
	CASE B									
	INVITE (CPG)	<b>→</b>		<b>→</b>	CPG(conference established)					
	200 OK INVITE	+								
	ACK	<b>→</b>								
	CASE A									
	INFO(CPG)	<b>→</b>		<b>→</b>	CPG(other party added)					
	200 OK INFO	+		1						
	CASE B	4		<u> </u>						
	INVITE (CPG)	<b>→</b>		<b>→</b>	CPG(other party added)					
	200 OK INFO	+		<u> </u>						
	ACK	<b>→</b>		<del> </del>						
	BYE(REL)	<b>→</b>		<b>→</b>	REL					
	200 OK BYE(RLC)	<b>←</b>		<b>←</b>	RLC					

TP411003	SIP reference: RFC 3261 [4]		Q.191	2.5 [	reference: 1], clause B.14, ], clause 1.6.15
TSS reference	ISUP-SIP-ISUP/SS/CONF		•		
SIP selection					
criteria					
ISUP selection					
criteria					
Test purpose	Generic notification transfer "conferen	ce esta	blished" and "iso	late	d"
	To verify that the IUT can successfully CPG message:  1. Assist a call set up from ISUP to S  2. Check that the notification "confere conferee at the SIP-I;  3. Check the notification "isolated" in	IP-I; ence es	tablished" is rece		
CID novemeter	O-MGCF interworking.	4/100 is 40 of	Camtant Tunas	I:	anting/ICLID: CDC
SIP parameter values	INFO/INVITE: Content-Type: multipart encapsulated in the MIME body	viilixea,	Content-Type: a	appii	CallOTI/ISOP, CPG
ISUP parameter	CPG: Generic notification: conference	ectabli	shed		
values	CPG: Generic notification: conference	CSIGNII	SIICU		
Comments	ISUP		SUT		SIP-I
Comments	IAM	<b>→</b>	301	<b>→</b>	INVITE(IAM)
	ACM	<del>/</del>		+	180 Ringing(ACM)
	ANM	+		+	200 OK INVITE(ANM)
	AINIVI			1	ACK
			Conversation	7	ACK
	CACE A		Conversation		
	CASE A				11150(050)
	CPG(conference established)	<b>→</b>		<b>→</b>	INFO(CPG)
				+	200 OK INFO
					11177 (070)
	CPG(isolated)	<b>→</b>		<b>→</b>	INFO(CPG)
				+	200 OK INFO
	REL	<b>→</b>		<b>→</b>	BYE(REL)
	RLC	+		+	200 OK BYE(RLC)
	CASE B				
	CPG(conference established)	→		<b>→</b>	INVITE(CPG,sendrecv)
				+	200 OK INVITE(sendrecv)
				<b>→</b>	ACK
	CPG(isolated)	→		<b>→</b>	INVITE(CPG,sendrecv)
				<b>←</b>	200 OK
					INVITE(sendrecv)
				<b>→</b>	ACK
	REL	<b>→</b>		<b>^</b>	BYE(REL)
	RLC	+		+	200 OK BYE(RLC)

TP411004	SIP reference: RFC 3261 [4]				ISUP reference: Q.1912.5 [1], clause B.14, Q.734 [i.7], clause 1.6.15	
TSS reference	ISUP-SIP-ISUP/SS/CON	F				
SIP selection						
criteria						
ISUP selection						
criteria						
Test purpose	Generic notification trans	fer "co	onference estab	lished	d" and "isolated"	
	To verify that the IUT can successfully transfer/deliver the required notifications in/from the CPG message:  1. assist a call set up from SIP-I to ISUP;  2. check that the notification "conference established" is received in the CPG from conferee at SIP-I;  3. check the notification "isolated" in the CPG.					
SIP parameter	I-MGCF interworking. INFO/INVITE: Content-Ty		ultipart/mixed (	Conte	ent-Type: application/ISUP; CPG	
values	encapsulated in the MIME			001110	Type: application (1881)	
ISUP parameter	CPG: Generic notification	: conf	erence establisl	hed		
values	CPG: Generic notification					
Comments	SIP-I		SUT		ISUP	
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM	
	180 Ringing(ACM)	+		+	ACM	
	200 OK INVITE(ANM)	+		+	ANM	
	ACK	<b>→</b>				
			Conversation			
	CASE A					
	INFO(CPG)	<b>→</b>		<b>→</b>	CPG(conference established)	
	200 OK INFO	+				
	INFO(CPG)	<b>→</b>		<b>→</b>	CPG(isolated)	
	200 OK INFO	+				
	BYE(REL)	<b>→</b>		<b>→</b>	REL	
	200 OK BYE(RLC)	+		+	RLC	
	CASE B					
	INVITE (CPG)	<b>→</b>		<b>→</b>	CPG(conference established)	
	200 OK INVITE	+				
	ACK	<b>→</b>				
	INVITE (CPG)	<b>→</b>		<b>→</b>	CPG(isolated)	
	200 OK INVITE	+				
	ACK	<b>→</b>				
	BYE(REL)	<b>→</b>		<b>→</b>	REL	
	200 OK BYE(RLC)	+		+	RLC	

TP411005	SIP reference: RFC 3261 [4]		Q.1912	2.5 [	reference: 1], clause B.14, ], clause 1.6.15					
TSS reference	ISUP-SIP-ISUP/SS/CONF		•							
SIP selection										
criteria										
ISUP selection										
criteria										
Test purpose	Generic notification transfer "conference" To verify that the IUT can successfully t									
	CPG message: 1. Assist a call set up from ISUP to SIF 2. Check that the notification "conferent	P-I;	·							
	conferee at SIP-I; 3. Check the notification "reattached" in O-MGCF interworking.	n the (	CPG.							
SIP parameter	INFO/INVITE: Content-Type: multipart/r	nixed	Content-Type: a	ingli	cation/ISUP: CPG					
values	encapsulated in the MIME body			- F- (- ''						
ISUP parameter values	CPG: Generic notification: conference e CPG: Generic notification: isolated CPG: Generic notification: reattached	stablis	shed							
Comments	ISUP		SUT		SIP-I					
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)					
	ACM	+		+	180 Ringing(ACM)					
	ANM	+		<b>←</b>	200 OK INVITE(ANM)					
				<b>→</b>	ACK					
	Conversation									
	CASE A									
	CPG(conference established)	<b>→</b>		<b>→</b>	INFO(CPG)					
	or exermerence established)			<del>-</del>	200 OK INFO					
					200 01(1141 0					
	CPG(isolated)	<b>→</b>		<b>→</b>	INFO(CPG)					
	Of O(1301atea)	-		÷	200 OK INFO					
				_	200 010 1101 0					
	CPG(reattached)	<b>→</b>		<b>→</b>	INFO(CPG)					
	Ci G(reattacried)			<del>′</del>	200 OK INFO					
				_	200 OK INFO					
	REL	<b>→</b>		<b>→</b>	BYE(REL)					
	RLC	+		<del>7</del>	200 OK BYE(RLC)					
	CASE B	+		۲.	ZUU ON BIE(NLU)					
	CPG(conference established)			_	INVITE(CPG,sendrecv)					
	or o(contended established)	7		<del>7</del>	200 OK					
				~	INVITE(sendrecv					
				<b>→</b>	ACK					
					AON					
	CPG(isolated)	<b>→</b>		<b>→</b>	INVITE(CPG,sendonly)					
	or G(isolated)	-		<del>7</del>	200 OK					
				~	INVITE(recvonly)					
				<b>→</b>	ACK					
					/ CIT					
	CPG(reattached)	<b>→</b>		<b>→</b>	INFO(CPG,sendrecv)					
	o. O(realization)	<del>                                     </del>		<del>′</del>	200 OK					
				•	INVITE(sendrecv)					
				<b>→</b>	ACK					
					/ IOIN					
	REL	<b>→</b>		<b>→</b>	BYE(REL)					
	RLC	<del>-</del>		<del>7</del>	200 OK BYE(RLC)					
	INLO	7		_	ZUU UN DIE(KLU)					

TP411006	SIP reference: R		61 [4]	ISUP reference: Q.1912.5 [1], clause B.14, Q.734 [i.7], clause 1.6.15					
TSS reference	ISUP-SIP-ISUP/SS/CONF								
SIP selection criteria									
ISUP selection									
criteria									
Test purpose	Generic notification trans	fer "co	nference estab	olished	d", "isolated" and "reattached"				
	To verify that the IUT can successfully transfer/deliver the required notifications in/from the CPG message:  1. Assist a call set up from SIP-I to ISUP;  2. Check that the notification "conference established" is received in the CPG from conferee at SIP-I;  3. Check the notification "reattached" in the CPG.  I-MGCF interworking.								
SIP parameter				Conte	ent-Type: application/ISUP; CPG				
values ISUP parameter	encapsulated in the MIME CPG: Generic notification			hod					
values	CPG: Generic notification			nea					
values	CPG: Generic notification								
Comments	SIP-I	Toatte	SUT		ISUP				
	INVITE(IAM)	→		<b>→</b>	IAM				
	180 Ringing(ACM)	-		+	ACM				
	200 OK INVITE(ANM)	-		+	ANM				
	ACK	→							
	Conversation								
	CASE A								
	INFO(CPG)	→		<b>→</b>	CPG(conference established)				
	200 OK INFO	+			,				
	INFO(CPG)	<b>→</b>		<b>→</b>	CPG(isolated)				
	200 OK INFO	<del>-</del>		7	CFG(isolated)				
	200 OK INFO								
	INFO(CPG)	<b>→</b>		<b>→</b>	CPG(reattached)				
	200 OK INFO	<del>′</del>			Cr G(reattached)				
	200 OK IIVI O								
	BYE(REL)	<b>→</b>		<b>→</b>	REL				
	200 OK BYE(RLC)	<del>′</del>		<del>′</del>	RLC				
	CASE B								
	INVITE(CPG,sendrecv)	→		<b>→</b>	CPG(conference established)				
	200 OK	+							
	INVITE(sendrecv)								
	ACK	<b>→</b>							
	INVITE(CPG,sendonly)	<b>→</b>		<b>→</b>	CPG(isolated)				
	200 OK	+							
	INVITE(recvonly)	+							
	ACK	<b>→</b>			-				
	INIVITE/CDC acreditation	<b>→</b>			CDC(reattached)				
	INVITE(CPG,sendrecv) 200 OK	+		<b>→</b>	CPG(reattached)				
	INVITE(sendrecv)	_							
	ACK	<b>→</b>			+				
	TON	7		+					
	BYE(REL)	<b>→</b>		<b>→</b>	REL				
	200 OK BYE(RLC)	<del></del>		+	RLC				
	1200 ON BTE(NLC)				INLO				

TP411007	SIP reference: RFC 3261 [4]		Q.19	12.5 [	reference: 1], clause B.14, ], clause 1.6.15					
TSS reference	ISUP-SIP-ISUP/SS/CONF				2,					
SIP selection										
criteria										
ISUP selection										
criteria										
Test purpose	Generic notification transfer "conferer disconnected"  To verify that the IUT can successfully CPG message:  1. assist a call set up from ISUP to S 2. check the notification "other party	y transfe SIP-I;	r/deliver the re	quire						
010	O-MGCF interworking.									
SIP parameter	INFO/INVITE: Content-Type: multipar	t/mixed,	Content-Type	: appli	cation/ISUP; CPG					
values	encapsulated in the MIME body		اد م ما							
ISUP parameter	CPG: Generic notification: conference		snea							
values	CPG: Generic notification: other party		aatad							
Comments	CPG: Generic notification: other party ISUP	disconn	SUT		SIP-I					
Comments	IAM	<b>→</b>	301	<b>→</b>	INVITE(IAM)					
		<del>-</del>		+						
	ACM ANM	<del>-</del>		+	180 Ringing(ACM)					
	ANIVI	7		<b>→</b>	200 OK INVITE(ANM) ACK					
			Canvaraatian		ACK					
	CASE A Conversation									
		<b>→</b>		_	INITO(CDC)					
	CPG(conference established)	7		<b>→</b>	INFO(CPG)					
					200 OK INFO					
	000( 11			+	INITO (ODO)					
	CPG(other party added)	→		<del>→</del>	INFO(CPG)					
					200 OK INFO					
				+	INITO (ODO)					
	CPG(other party disconnected)	→		<b>→</b>	INFO(CPG)					
				+	200 OK INFO					
	DEL			_	DVE(DEL)					
	REL	<b>→</b>		<b>→</b>	BYE(REL)					
	RLC	+		+	200 OK BYE(RLC)					
	CASE B			_	INDUSTRICORDO I					
	CPG(conference established)	→		<b>→</b>	INVITE(CPG,sendrecv)					
				+	200 OK					
				+.	INVITE(sendrecv)					
				<b>→</b>	ACK					
	ODC/athor positive state 15			+	INIVITE/ODO					
	CPG(other party added)	<b>→</b>		→	INVITE(CPG,					
				+	sendrecv) 200 OK					
				_	INVITE(sendrecv)					
				_	ACK					
				<b>→</b>	ACK					
	CPC(other party disconnected)	<b>→</b>		<del></del>	INIVITE/CDC					
	CPG(other party disconnected)	7		→	INVITE(CPG,					
				+	sendrecv) 200 OK INVITE					
				_						
				<b>→</b>	(sendrecv) ACK					
				7	AUN					
	DEI				DVE/DEL\					
	REL	<b>→</b>		<b>→</b>	BYE(REL)					
	RLC	<b>←</b>		<b>←</b>	200 OK BYE(RLC)					

TP411008	SIP reference: RF	C 32	61 [4]		ISUP reference:				
				Q.1912.5 [1], clause B.14, Q.734 [i.7], clause 1.6.15					
TSS reference	ISUP-SIP-ISUP/SS/CONF		<u>'</u>		<u></u>				
SIP selection									
criteria									
ISUP selection									
criteria									
Test purpose	Generic notification transfer "conference established", "other party added" and "or disconnected"								
	To verify that the IUT can successfully transfer/deliver the required notifications in/from the CPG message:  1. Assist a call set up from SIP-I to ISUP;  2. Check the notification "other party disconnected" in the CPG.  I-MGCF interworking.								
SIP parameter	INFO/INVITE: Content-Ty	pe: m	nultipart/mixed, C	Conte	nt-Type: application/ISUP; CPG				
values	encapsulated in the MIME								
ISUP parameter	CPG: Generic notification			ned					
values	CPG: Generic notification:								
	CPG: Generic notification:	othe		cted					
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	1		<b>→</b>	IAM				
	180 Ringing(ACM)	+		+	ACM				
	200 OK INVITE(ANM)	+		<b>←</b>	ANM				
	ACK	<b>→</b>							
			Conversation						
	CASE A								
	INFO(CPG)	<b>→</b>		<b>→</b>	CPG(conference established)				
	200 OK INFO	+							
	INFO(CPG)	<b>→</b>		<b>→</b>	CPG(other party added)				
	200 OK INFO	+		Ť	or ottor party dadody				
	200 011 111 0								
	INFO(CPG)	<b>→</b>		<b>→</b>	CPG(other party disconnected)				
	200 OK INFO	+		<u> </u>	Cr C(other party disconnicoted)				
	200 01(11(1) 0								
	BYE(REL)	<b>→</b>		<b>→</b>	REL				
	200 OK BYE(RLC)	<del>-</del>		<del>-</del>	RLC				
	CASE B				INCO				
	INVITE(CPG,sendrecv)	<b>→</b>		<b>→</b>	CPG(conference established)				
	011	7		7	CFG(contenence established)				
	200 OK  INVITE(sendrecv)	_							
	ACK	<b>→</b>		1					
	AUR	7		1					
	INIVITE/CDC condrag:	_		<b>→</b>	CPG(other party added)				
	INVITE(CPG,sendrecv)	<b>→</b>		7	CFG(other party added)				
	200 OK	~							
	INVITE(sendrecv) ACK	<b>→</b>		-					
	ACK	7		-					
	INIVITE/CDC conditions	_			CDC (other perty discours stad)				
	INVITE(CPG,sendrecv)	<b>→</b>		<b>→</b>	CPG(other party disconnected)				
	200 OK	+							
	INVITE(sendrecv)	_		-					
	ACK	<b>→</b>							
	D) (E (D.E. )				DE!				
	BYE(REL)	<b>→</b>		<b>→</b>	REL				
	200 OK BYE(RLC)	<b>←</b>		<b>←</b>	RLC				

TP411009	SIP reference: RFC 3261 [4]		Q.1912.5	P reference: [1], clause B.14, 7], clause 1.6.15					
TSS reference	ISUP-SIP-ISUP/SS/CONF								
SIP selection									
criteria									
ISUP selection									
criteria									
Test purpose	Generic notification transfer "conference"  To verify that the IUT can successfully								
	CPG message:		ii/deliver the require	ed notifications in/nom the					
	Assist a call set up from ISUP to SI								
	2. Check that the notification "conference	nce es	tablished" is receive	ed in the CPG from					
	conferee at ISUP;								
	3. Release the conference.								
OID	O-MGCF interworking.	O-MGCF interworking.  INFO/INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; CPG							
SIP parameter values		mıxea,	Content-Type: app	Discation/ISUP; CPG					
ISUP parameter	encapsulated in the MIME body  CPG: Generic notification: conference	ootobli	shad						
values	CPG. Generic notification, conference	estabil	sneu						
Comments	ISUP		SUT	SIP-I					
	IAM	<b>→</b>	<b>→</b>	INVITE(IAM)					
	ACM	+	+	180 Ringing(ACM)					
	ANM	+	+	200 OK INVITE(ANM)					
			-	→ ACK					
			Conversation						
	CASE A								
	CPG(conference established)	<b>→</b>	<b>→</b>	INFO(CPG)					
			+	- 200 OK INFO					
	REL	<b>→</b>	-	BYE(REL)					
	RLC	+	+	- 200 OK BYE(RLC)					
	CASE B								
	CPG(conference established)	<b>→</b>	<b>→</b>	INVITE(CPGsendrecv)					
	,		+	- 200 OK					
				INVITE(sendrecv)					
			-						
	REL	<b>→</b>	-	\ /					
	RLC	+	+	<ul> <li>200 OK BYE(RLC)</li> </ul>					

TP411010	SIP reference: RFC 3261 [4]			ISUP reference: Q.1912.5 [1], clause B.14, Q.734 [i.7], clause 1.6.15			
TSS reference	ISUP-SIP-ISUP/SS/CONI	F					
SIP selection							
criteria							
ISUP selection							
criteria							
Test purpose	Generic notification transf	fer "co	inference estab	lished	d", and disconnect the conference		
	To verify that the IUT can successfully transfer/deliver the required notifications in/from the CPG message:  1. Assist a call set up from SIP-I to ISUP;  2. Check that the notification "conference established" is received in the INFO(CPG) from conferee at SIP-I;  3. Release the conference.  I-MGCF interworking.						
SIP parameter	INFO/INVITE: Content-Ty	/pe: m	ultipart/mixed,	Conte	ent-Type: application/ISUP; CPG		
values	encapsulated in the MIME						
ISUP parameter	CPG: Generic notification	ı: conf	erence establisl	hed			
values							
Comments	SIP-I	<u> </u>	SUT		ISUP		
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM		
	180 Ringing(ACM)	<b>←</b>		+	ACM		
	200 OK INVITE(ANM)	+		+	ANM		
	ACK	<b>→</b>					
			Conversation				
	CASE A						
	INFO(CPG)	<b>→</b>		<b>→</b>	CPG(conference established)		
	200 OK INFO	+					
	BYE(REL)	<b>→</b>		<b>→</b>	REL		
	200 OK BYE(RLC)	+		+	RLC		
	CASE B						
	INVITE(CPG,sendrecv)	<b>→</b>		<b>→</b>	CPG(conference established)		
	200 OK	+					
	INVITE(sendrecv)						
	ACK	<b>→</b>					
	BYE(REL)	<b>→</b>		<b>→</b>	REL		

## 5.3.12 ECT

TP412001	SIP reference: RFC 3261 [4]			[1], cl	SUP reference: lauses 5.4.3, 5.4.3.2 and B.8, 5], clause 7.5.2.1.1.1 a)		
TSS reference	ISUP-SIP-ISUP/SS/ECT						
SIP selection criteria							
ISUP selection criteria							
Test purpose	Capability of sending a call transfer number for the active user  Verify that the IUT is able to send the Generic notification parameter "Call transfer active", the service activation parameter "call transfer" and the call transfer number, received in the ISUP FAC, in an INFO request for the active user.  O-MGCF interworking.						
SIP parameter values	INFO: Content-Type: application/ISUP	; FAC	encapsula	ted in	the MIME body		
ISUP parameter values	FAC: Generic notification=call transfer number (PIXIT)	activ	e, Service a	ctivat	ion=call transfer, Call transfer		
Comments	ISUP		SUT		SIP-I		
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)		
	ACM	+		+	180 Ringing(ACM)		
	ANM	+		+	200 OK INVITE(ANM)		
				<b>→</b>	ACK		
	Conversation						
	FAC(call transfer active, CTNb)	<b>→</b>		→	INFO(FAC)		
				+	200 OK INFO		
	REL	<b>→</b>		→	BYE(REL)		
	RLC	<b>←</b>		<b>+</b>	200 OK BYE(RLC)		

TP412002	SIP reference: RFC	erence: RFC 3261 [4] ISUP reference:								
			Q.19	912.	5 [1], clauses 5.4.3, 5.4.3.2 and B.8, Q.734 [i.7], clause 1.6.15					
TSS reference	ISUP-SIP-ISUP/SS/ECT				a, o					
SIP selection										
criteria										
ISUP selection criteria										
Test purpose	Capability of sending the	call tra	nsfer number	for	the active user					
CID peremeter	the service activation para INFO request containing the I-MGCF interworking.									
SIP parameter values	INFO: Content-Type: appli	cation/is	SUP; FAC enca	apsu	lated in the Message body					
ISUP parameter values	FAC: Generic notification= number (PIXIT)	call trans	sfer active, Se	rvice	activation=call transfer, Call transfer					
Comments	SIP-I		SUT		ISUP					
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM					
	180 Ringing(ACM)	+		+	ACM					
	200 OK INVITE(ANM)	+		+	ANM					
	ACK	→								
	Conversation									
	INFO(FAC)	<b>→</b>		<b>→</b>	FAC(call transfer active, CTNb)					
	200 OK INFO	<b>←</b>								
	BYE(REL)	<b>→</b>		<b>→</b>	REL					
	200 OK BYE(RLC)	<b>+</b>		<del>-</del>	RLC					

TP412005	SIP reference: RFC 3261 [4]	1		], cl	SUP reference: auses 5.4.3, 5.4.3.2 and B.8, 5], clause 7.5.2.1.1.1 a)				
TSS reference	ISUP-SIP-ISUP/SS/ECT								
SIP selection									
criteria									
ISUP selection criteria									
Test purpose	Verify that the IUT is able to transfer	Capability of sending the call transfer number for the held user  Verify that the IUT is able to transfer the call transfer number received in an ISUP FAC and sent in INFO request containing the FAC for the held user.  O-MGCF interworking.							
SIP parameter	INVITE: Content-Type: multipart/mix	red, Cor	ntent-Type: ap	plic	ation/ISUP; CPG				
values	new session with new INVITE to CT								
ISUP parameter values	CPG: Event indicator=progress, Ge FAC: Generic notification=call transi number(PIXIT)		e, Service acti		,				
Comments	ISUP		SUT		SIP-I				
	IAM	→		<b>→</b>	INVITE(IAM)				
	ACM	+		<del>(</del>	180 Ringing(ACM)				
	ANM	<b>←</b>		<del>(</del>	200 OK INVITE(ANM)				
				<b>→</b>	ACK				
			onversation						
	CPG(hold)	→		<b>→</b>	INVITE(CPG, sendonly)				
				<del>(</del>	200 OK INVITE(recvonly)				
				<u>→</u>	ACK				
	FAC(call transfer active, CTNb)	<b>→</b>		<b>→</b>	INFO(FAC)				
	1710(can transfer active, 0114b)			÷	200 OK INFO				
					200 OK IIVI O				
				<b>→</b>	INVITE(sendrecv)				
				<del>(</del>	200 OK INVITE(sendrecv)				
				<b>→</b>	ACK				
	REL	<b>→</b>		<b>→</b>	BYE(REL)				
	RLC	+		<del>(</del>	200 OK BYE(RLC)				

TP412006	SIP reference: RFC	3261 [4]		ISUP reference: Q.1912.5 [1], clauses 5.4.3, 5.4.3.2 an Q.734 [i.7], clause 1.6.15					
TSS reference	ISUP-SIP-ISUP/SS/CONF								
SIP selection									
criteria									
ISUP selection									
criteria	0				41				
Test purpose	Verify that the IUT is able to	Capability of sending the call transfer number for the active user  Verify that the IUT is able to transfer the call transfer number received in an ISUP FAC and sent in INFO request containing the FAC for the held user.  LMGCF interworking							
SIP parameter	INVITE: Content-Type: multi	part/mix	xed, Cont	tent-Type	: application/ISUP; CPG				
values	encapsulated in the MIME b INFO: Content-Type: applica	ody							
ISUP parameter	CPG: Event indicator=progre	ess, Ge	neric noti	fication=I	hold				
values	FAC: Generic notification=cannumber(PIXIT)	all trans	fer active	, Service	activation=call transfer, Call transfer				
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM				
	180 Ringing(ACM)	+		+	ACM				
	200 OK INVITE(ANM)	+		+	ANM				
	ACK	<b>→</b>							
		C	onversa	tion					
	INVITE(CPG, sendonly)	<b>→</b>		<b>→</b>	CPG(hold)				
	200 OK INVITE(recvonly)	+							
	ACK	<b>→</b>							
	INFO(FAC)	<b>→</b>		<b>→</b>	FAC(call transfer active, CTNb)				
	200 OK INFO	<b>←</b>			Trie (can transfer detive, erris)				
	INI\/ITE(condrocy)	<b>→</b>							
	INVITE(sendrecv) 200 OK INVITE(sendrecv)	<del>7</del>							
	ACK	7							
	AUN	7							
	BYE(REL)	→		<b>→</b>	REL				
	200 OK BYE(RLC)	+		+	RLC				

TP412009	SIP reference: RFC 3261 [4	1	ISUP reference:							
		•		], cl	auses 5.4.3, 5.4.3.2 and B.8, 5], clause 7.5.2.1.1.1 a)					
TSS reference	ISUP-SIP-ISUP/SS/ECT		•							
SIP selection										
criteria										
ISUP selection										
criteria										
Test purpose	Verify that the SUT is able to transfe INFO request containing the LOP m received in an ISUP LOP in an SIP O-MGCF interworking.	Loop prevention procedure - initiation  Verify that the SUT is able to transfer the loop request received in an ISUP LOP in an INFO request containing the LOP message. SUT is able to transfer the loop response received in an ISUP LOP in an SIP INFO request containing the ISUP LOP message.  O-MGCF interworking								
SIP parameter	INVITE: Content-Type: multipart/mix	ked, Cor	ntent-Type: a	pplic	ation/ISUP; CPG					
values	encapsulated in the MIME body									
	INFO: Content-Type: application/IS	UP; FAC	c encapsulate	ed in	the MIME body					
	INFO: Content-Type: application/IS				the MIME body					
ISUP parameter values	CPG: Event indicator=progress, Ge LOP: request: Call transfer reference LOP: response: Call transfer reference	e nce								
	FAC: Generic notification=call transfer active, Service activation=call transfer, Call transfer number(PIXIT)									
Comments	ISUP		SUT		SIP-I					
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)					
	ACM	+		+	180 Ringing(ACM)					
	ANM	+		+	200 OK INVITE(ANM)					
				<b>→</b>	ACK					
		С	onversation	1						
	CPG(hold)	<b>→</b>		<b>→</b>	INVITE(CPG, sendonly)					
				+	200 OK INVITE(recvonly)					
				<b>→</b>	ACK					
	LOP(request)	<b>→</b>		<b>→</b>	INFO(LOP)					
	(.04.00.)	1-		<del></del>	200 OK INFO					
	LOP(response)	+		+	INFO(LOP)					
	20. (100)01100)			<u>`</u>	200 OK INFO					
					200 010 1101 0					
	FAC(call transfer active, CTNb)	→		<b>→</b>	INFO(FAC)					
	AO(can transfer active, OTND)	-		<del>/</del>	200 OK INFO					
					200 OK INI O					
				<b>→</b>	INVITE(sendrecv)					
				<del>7</del>	200 OK INVITE(sendrecv)					
				<u>▼</u>	ACK					
				7	AUN					
	DEL				DVE(DEL)					
	REL	<b>→</b>		<u>→</u>	BYE(REL)					
	RLC(RLC)	+		+	200 OK BYE					

TP412010	SIP reference: RFC	3261 F	41	ISUP reference:						
				Q.1912.5 [1], clauses 5.4.3, 5.4.3.2 and Q.734 [i.7], clause 1.6.15						
TSS reference	ISUP-SIP-ISUP/SS/ECT		•							
SIP selection										
criteria										
ISUP selection										
criteria										
Test purpose  SIP parameter	Loop prevention procedure - initiation  Verify that the SUT is able to transfer the loop request received in an INFO request containing the ISUP LOP message. Verify that the SUT is able to transfer the loop response received in an ISUP LOP message in the SIP INFO request containing the ISUP LOP message.  I-MGCF interworking.  INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; CPG									
values			iixea, Conte	iii- i ype	e. application/150P, CPG					
values	INFO: Content-Type: applica	encapsulated in the MIME body INFO: Content-Type: application/ISUP; FAC encapsulated in the MIME body INFO: Content-Type: application/ISUP; LOP encapsulated in the MIME body								
ISUP parameter	CPG: Event indicator=progre			cation=	hold					
values	LOP: request: Call transfer r LOP: response: Call transfer FAC: Generic notification=canumber(PIXIT)	r refere	ence sfer active,	Service	activation=call transfer, Call transfer					
Comments	SIP-I		SUT		ISUP					
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM					
	180 Ringing(ACM)	+		+	ACM					
	200 OK INVITE(ANM)	+		+	ANM					
	ACK	<b>→</b>								
			Conversation	on						
	INVITE(CPG, sendonly)	<b>→</b>		<b>→</b>	CPG(hold)					
	200 OK INVITE(recvonly)	+			, ,					
	ACK	<b>→</b>								
	INFO(LOP)	<b>→</b>		<b>→</b>	LOP(request)					
	200 OK INFO	+			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					
	INFO(LOP)	+		+	LOP(response)					
	200 OK INFO	<b>→</b>								
	INFO(FAC)	<b>→</b>		<b>→</b>	FAC(call transfer active, CTNb)					
	200 OK INFO	+	1	<u> </u>						
		+	<u> </u>							
	INVITE(sendrecv)	<b>→</b>	<u> </u>							
	200 OK INVITE(sendrecv)	<del>′</del>								
	ACK	<b>→</b>								
	BYE(REL)	<b>→</b>		<b>→</b>	REL					
	200 OK BYE(RLC)	+		<b>←</b>	RLC					

TP412011	SIP reference: RFC 3261 [4]			1], c	SUP reference: lauses 5.4.3, 5.4.3.2 and B.8, .5], clause 7.5.2.1.1.1 a)				
TSS reference	ISUP-SIP-ISUP/SS/ECT								
SIP selection criteria									
ISUP selection criteria									
Test purpose	Loop prevention procedure - unsuccessful on timer expiry  To verify that the SUT is able to transfer the loop request received in an ISUP LOP in an INFO request containing the LOP message. Verify that the connection is unsuccessful if the loop detection procedure is unsuccessful. The connection is released from the remote end.  O-MGCF interworking.								
SIP parameter values	INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; CPG encapsulated in the MIME body INFO: Content-Type: application/ISUP; LOP encapsulated in the MIME body								
ISUP parameter values	CPG: Event indicator=progress, Gene LOP: request: Call transfer reference	ric no	tification=hol	ld					
Comments	ISUP		SUT		SIP-I				
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)				
	ACM	+		+	180 Ringing(ACM)				
	ANM	+		+	200 OK INVITE(ANM)				
				<b>→</b>	ACK				
		C	onversation	1					
	CPG(hold)	<b>→</b>		<b>→</b>	INVITE(CPG, sendonly)				
				+	200 OK INVITE(recvonly)				
				<b>→</b>	ACK				
	LOP(request)	<b>→</b>		<b>→</b>	INFO(LOP)				
				+	200 OK INFO				
	REL	<b>→</b>		<b>→</b>	BYE(REL)				
	RLC	<del>7</del>		<del>7</del>	, ,				
	IKLU	_		_	200 OK BYE(RLC)				

TP412012	SIP reference: RFC 3	261 [4		912.5	ISUP reference: [1], clauses 5.4.3, 5.4.3.2 and B.8, Q.734 [i.7], clause 1.6.15			
TSS reference	ISUP-SIP-ISUP/SS/CONF							
SIP selection								
criteria								
ISUP selection								
criteria								
Test purpose	Loop prevention procedure - unsuccessful on timer expiry  To verify that SUT is able to transfer the loop request received in an INFO request containing the LOP message in an ISUP LOP message. Verify that the connection is unsuccessful if the loop detection procedure is unsuccessful. The connection is released from the remote end.  I-MGCF interworking.							
SIP parameter values	INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; CPG encapsulated in the MIME body INFO: Content-Type: application/ISUP; LOP encapsulated in the MIME body							
ISUP parameter values	CPG: Event indicator=progrubor: LOP: request: Call transfer r			tion=l	hold			
Comments	SIP-I		SUT		ISUP			
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM			
	180 Ringing(ACM)	+		+	ACM			
	200 OK INVITE(ANM)	+		+	ANM			
	ACK	<b>→</b>						
			Conversatio	า				
	INVITE(CPG, sendonly)	<b>→</b>		<b>→</b>	CPG(hold)			
	200 OK INVITE(recvonly)	<b>←</b>						
	ACK	<b>→</b>						
	INFO(LOP)	<b>→</b>		<b>→</b>	LOP(request)			
	200 OK INFO	+						
	BYE(REL)	<b>→</b>		<b>→</b>	REL			
	200 OK BYE(RLC)	+		<b>←</b>	RLC			

TP412013	SIP reference: RFC 3261 [4]		0 1912 5 [	_	SUP reference: auses 5.4.3, 5.4.3.2 and B.8,						
					5], clause 7.5.2.1.1.1 a)						
TSS reference	ISUP-SIP-ISUP/SS/ECT				,						
SIP selection											
criteria											
ISUP selection											
criteria											
Test purpose	Verify that the SUT is able to transfer the INFO request containing the LOP mess loop detection procedure is unsuccessed O-MGCF interworking.	Loop prevention procedure - successful on timer expiry  Verify that the SUT is able to transfer the loop request received in an ISUP LOP in an INFO request containing the LOP message. Verify that the connection is successful if the loop detection procedure is unsuccessful.  O-MGCF interworking									
SIP parameter values	encapsulated in the MIME body INFO: Content-Type: application/ISUP; INFO: Content-Type: application/ISUP;	INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; CPG									
ISUP parameter values	LOP: request: Call transfer reference FAC: Generic notification=call transfer number(PIXIT)	CPG: Event indicator=progress, Generic notification=hold LOP: request: Call transfer reference FAC: Generic notification=call transfer active, Service activation=call transfer, Call transfer									
Comments	ISUP		SUT		SIP-I						
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)						
	ACM	+		+	10011119						
	ANM	<del>-</del>		+	200 OK INVITE(ANM)						
				→	ACK						
	000(1.1)		onversation		N. N. (1994)						
	CPG(hold)	<b>→</b>		<b>→</b>	INVITE(CPG, sendonly)						
				<b>←</b>	200 OK INVITE(recvonly)						
				<b>→</b>	ACK						
	I OD(request)	<b>→</b>		_	INFO(LOP)						
	LOP(request)	7		<b>→</b>	200 OK INFO						
				-	200 OK INFO						
	FAC(call transfer active, CTNb)	<b>→</b>		<b>→</b>	INFO(FAC)						
	200 OK INFO										
				+							
				<b>→</b>	INVITE(sendrecv)						
				+	200 OK INVITE(sendrecv)						
				<b>→</b>	ACK						
	REL	<b>→</b>		<b>→</b>	BYE(REL)						
	RLC	<b>←</b>		<b>←</b>	200 OK BYE(RLC)						

TP412014	SIP reference: RFC 3261 [4] ISUP reference:									
				1912.	5 [1], clauses 5.4.3, 5.4.3.2 and B.8, Q.734 [i.7], clause 1.6.15					
TSS reference	ISUP-SIP-ISUP/SS/ECT		*							
SIP selection										
criteria										
ISUP selection										
criteria										
Test purpose	Verify that the SUT is able to containing the LOP message	Loop prevention procedure - successful on timer expiry  Verify that the SUT is able to transfer the loop request received in an INFO request containing the LOP message in an ISUP LOP message. Verify that the connection is successful if the loop detection procedure is unsuccessful.								
SIP parameter	INVITE: Content-Type: mult	ipart/m	ixed, Content	-Туре	e: application/ISUP; CPG					
values	encapsulated in the MIME b	ody		• •						
	INFO: Content-Type: application INFO: Content-Type: application	ation/IS	SUP; LOP end	capsu	lated in the MIME body					
ISUP parameter	CPG: Event indicator=progre			tion=	hold					
values	number(PIXIT)			ervice	activation=call transfer, Call transfer					
Comments	SIP-I		SUT		ISUP					
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM					
	180 Ringing(ACM)	+		+	ACM					
	200 OK INVITE(ANM)	+		+	ANM					
	ACK	→								
		-	Conversation	1						
	INVITE(CPG, sendonly)	<b>→</b>		<b>→</b>	CPG(hold)					
	200 OK INVITE(recvonly)	+								
	ACK	<b>→</b>								
	INFO(LOP)	<b>→</b>		<b>→</b>	LOP(request)					
	200 OK INFO	+								
	INFO(FAC)	<b>→</b>		<b>→</b>	FAC(call transfer active, CTNb)					
	200 OK INFO	+			, , ,					
	INVITE(sendrecv)	<b>→</b>								
	200 OK INVITE(sendrecv)	+								
	ACK	<b>→</b>								
	BYE(REL)	<b>→</b>		<b>→</b>	REL					
	200 OK BYE(RLC)	+		<b>←</b>	RLC					

SIP reference: RFC 3261 [4]		ISUP reference: Q.1912.5 [1], clauses 5.4.3, 5.4.3.2 and B.8, Q.732.7 [i.5], clause 7.5.2.1.1.1 a)							
ISUP-SIP-ISUP/SS/ECT									
Facility message with generic notification sent to the remote user  Verify that the SUT is able to transfer the generic notification "call transfer, active" or "call transfer, alerting" and the service activation parameter set to "call transfer" received in an ISLIP FAC in a SIP INFO request containing the ISLIP FAC O-MGCF interworking									
encapsulated in the MIME body INFO: Content-Type: application/ISL	JP; FAC	c encapsulate	d in	the MIME body					
CPG: Event indicator=progress, Ger	eric no	tification=hold	ł						
FAC: Generic notification=call transfender(PIXIT)	er activ	e, Service act	ivati	ion=call transfer, Call transfer					
ISUP		SUT		SIP-I					
IAM	<b>→</b>		<b>→</b>	INVITE(IAM)					
ACM	+		<del>(</del>	180 Ringing(ACM)					
ANM	+		<b>←</b>	200 OK INVITE(ANM)					
			<b>→</b>	ACK					
Conversation									
CPG(hold)	<b>→</b>		<b>→</b>	INVITE(CPG, sendonly)					
			<del>(</del>	200 OK INVITE(recvonly)					
			<b>→</b>	ACK					
FAC(call transfer active, CTNh)	-		<b>→</b>	INFO(FAC)					
TAG(can transfer delive, 61145)				200 OK INFO					
				200 01(1111 0					
			<b>→</b>	INVITE(sendrecv)					
			<del>(</del>	200 OK INVITE(sendrecv)					
			<b>→</b>	ACK					
RFI	-		<del>-</del>	BYE(REL)					
RLC	<del>-</del>		<del>′</del>	200 OK BYE(RLC)					
	ISUP-SIP-ISUP/SS/ECT  Facility message with generic not Verify that the SUT is able to transfe transfer, alerting" and the service ac ISUP FAC in a SIP INFO request co INVITE: Content-Type: multipart/mix encapsulated in the MIME body INFO: Content-Type: application/ISUCPG: Event indicator=progress, GerFAC: Generic notification=call transfnumber(PIXIT)  ISUP IAM ACM ANM  CPG(hold)  FAC(call transfer active, CTNb)	ISUP-SIP-ISUP/SS/ECT  Facility message with generic notificatio Verify that the SUT is able to transfer the getransfer, alerting" and the service activatio ISUP FAC in a SIP INFO request containing INVITE: Content-Type: multipart/mixed, Corencapsulated in the MIME body INFO: Content-Type: application/ISUP; FAC CPG: Event indicator=progress, Generic not FAC: Generic notification=call transfer activnumber(PIXIT)  ISUP  IAM  ACM  ACM  CPG(hold)  FAC(call transfer active, CTNb)  FAC(call transfer active, CTNb)	REL	REL					

TP412016	SIP reference: RFC 3261 [4]			ISUP reference: Q.1912.5 [1], clauses 5.4.3, 5.4.3.2 and B.8, Q.734 [i.7], clause 1.6.15					
TSS reference	ISUP-SIP-ISUP/SS/ECT								
SIP selection									
criteria									
ISUP selection									
criteria			.101 .1						
Test purpose	Verify that the SUT is able to "call transfer, active" or "call	Facility message with generic notification sent to the remote user  Verify that the SUT is able to transfer the generic notification generic notification set to  "call transfer, active" or "call transfer, alerting" and the service activation parameter set to  "call transfer" received in a SIP-I INFO request containing the ISUP FAC message in an							
SIP parameter	INVITE: Content-Type: multi			-Type	e: application/ISLIP: CPG				
values	encapsulated in the MIME b		Aca, Content	турс	5. application/1001 , 01 0				
	INFO: Content-Type: applica		UP: FAC end	cansu	lated in the MIME body				
ISUP parameter	CPG: Event indicator=progre								
values					activation=call transfer, Call transfer				
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM				
	180 Ringing(ACM)	+		+	ACM				
	200 OK INVITE(ANM)	+		+	ANM				
	ACK	<b>→</b>							
			Conversation	n					
	INVITE(CPG, sendonly)	<b>→</b>		<b>→</b>	CPG(hold)				
	200 OK INVITE(recvonly)	+							
	ACK	<b>→</b>							
	INFO(FAC)	<b>→</b>		<b>→</b>	FAC(call transfer active, CTNb)				
	200 OK INFO	+							
	INVITE(sendrecv)	<b>→</b>							
	200 OK INVITE(sendrecv)	+		1					
	ACK	<b>→</b>							
	BYE(REL)	<b>→</b>		<b>→</b>	REL				
	200 OK BYE(RLC)	<b>←</b>		<b>←</b>	RLC				

TP412017	SIP reference: RFC 3261 [4	]		1], c	SUP reference: lauses 5.4.3, 5.4.3.2 and B.8, .5], clause 7.5.2.1.1.1 a)				
TSS reference	ISUP-SIP-ISUP/SS/ECT								
SIP selection criteria									
ISUP selection criteria									
Test purpose	Call progress message with generic notification sent to the remote user  Verify that the transfer the CPG with the generic notification set to "call transfer, active"  and the service activation parameter set to "call transfer" in a SIP-I INFO request containing the ISUP CPG message.  O-MGCF interworking.								
SIP parameter values	INFO: Content-Type: application/ISI	UP; CP	G encapsula	ted ir	the MIME body				
ISUP parameter	CPG: Generic notification=call trans	fer activ	e, Service a	ctiva	tion=call transfer, Call transfer				
values	number (PIXIT)								
Comments	ISUP		SUT		SIP-I				
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)				
	ACM	+		+	180 Ringing(ACM)				
	CPG(call transfer active, CTNb)	<b>→</b>		<b>→</b>	INFO(CPG)				
				+	200 OK INFO				
	ANM	<del>-</del>		+	200 OK INVITE(ANM)				
				<b>→</b>	ACK				
	Conversation								
	REL	<b>→</b>		<b>→</b>	BYE(REL)				
	RLC	+		+	200 OK BYE(RLC)				

TP412018	SIP reference: RFC	3261 [4]		.1912.	ISUP reference: 5 [1], clauses 5.4.3, 5.4.3.2 and B.8, Q.734 [i.7], clause 1.6.15					
TSS reference	ISUP-SIP-ISUP/SS/ECT	ISUP-SIP-ISUP/SS/ECT								
SIP selection										
criteria										
ISUP selection										
criteria										
Test purpose	Verify that the SUT is able to "call transfer, active" and the									
SIP parameter	INVITE: Content-Type: mult	inart/mix	ed Conter	nt-Type	e: application/ISUP: CPG					
values	encapsulated in the MIME b		ou, ouritor	, pc	. application from the control of th					
	INFO: Content-Type: applica		IP: CPG e	ncapsu	lated in the MIME body					
ISUP parameter values	CPG: Event indicator=programmer CPG: Generic notification=c number(PIXIT)				noid e activation=call transfer, Call transfer					
Comments	SIP-I		SUT		ISUP					
	INVITE(IAM)	→		→	IAM					
	180 Ringing(ACM)	<b>←</b>		<b>←</b>	ACM					
	200 OK INVITE(ANM)	<b>←</b>		+	ANM					
	ACK	→	onversatio							
	INVITE(CPG, sendonly)	→		→	CPG(hold)					
	200 OK INVITE(recvonly)	+								
	ACK	<b>→</b>								
	INFO(CPG)	<b>→</b>		<b>→</b>	CPG(call transfer active, CTNb)					
	200 OK INFO	+								
	INVITE(sendrecv)	<b>→</b>								
	200 OK INVITE(sendrecv)	+								
	ACK	<b>→</b>								
	7.010	+*+			<u> </u>					
	BYE(REL)	<b>→</b>		<b>→</b>	REL					
	200 OK BYE(RLC)	+								

TP412019	SIP reference: RFC	3261 [4		1912.	ISUP reference: 5 [1], clauses 5.4.3, 5.4.3.2 and B.8, Q.734 [i.7], clause 1.6.15				
TSS reference	ISUP-SIP-ISUP/SS/ECT								
SIP selection criteria									
ISUP selection criteria									
Test purpose	Call transfer number - removal of number  Verify that the exchange removes the call transfer number in the SIP-I INFO request containing a FAC or CPG before sending it to the next exchange, if its indicator is set to "presentation restricted" and there is no bilateral agreement to transfer the number.								
SIP parameter	INVITE: Content-Type: multi	ipart/m							
values	INFO: Content-Type: application	encapsulated in the MIME body INFO: Content-Type: application/ISUP; FAC(CTNb=restricted) encapsulated in the MIME							
ISUP parameter	CPG: Event indicator=progre	ess, Ge	eneric notifica	ation=	hold				
values	FAC: Generic notification=catransfer number(PIXIT)	all trans	sfer active, So	ervice	activation=call transfer, no Call				
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM				
	180 Ringing(ACM)	+		+	ACM				
	200 OK INVITE(ANM)	+		+	ANM				
	ACK	<b>→</b>							
		(	Conversation	n					
	INVITE(CPG, sendonly)	<b>→</b>		<b>→</b>	CPG(hold)				
	200 OK INVITE(recvonly)	+							
	ACK	<b>→</b>							
	INFO(FAC)	<b>→</b>		<b>→</b>	FAC(call transfer active)				
	200 OK INFO	+							
	INVITE(sendrecv)	<b>→</b>							
	200 OK INVITE(sendrecv)	+							
	ACK	<b>→</b>							
	BYE(REL)	<b>→</b>		<b>→</b>	REL				
	200 OK BYE(RLC)	+		<b>←</b>	RLC				

TP412020	SIP reference: RFC 3261 [4]			ISUP reference: Q.1912.5 [1], clauses 5.4.3, 5.4.3.2 and B.8 Q.734 [i.7], clause 1.6.15						
TSS reference	ISUP-SIP-ISUP/SS/ECT									
SIP selection										
criteria										
ISUP selection										
criteria										
Test purpose	Verify that the IUT converts into international format. The number".	Call transfer number - conversion to international number  Verify that the IUT converts the call transfer number contained in the SIP-I INFO request into international format. The nature of address indicator shall be set to "international number".								
SIP parameter	INVITE: Content-Type: multi		ixed, Content	-Туре	e: application/ISUP; CPG					
values	INFO: Content-Type: application	encapsulated in the MIME body INFO: Content-Type: application/ISUP; FAC(CTNb=national) encapsulated in the Message								
ISUP parameter	CPG: Event indicator=progre									
values	FAC: Generic notification=canumber=international(PIXIT)		sfer active, Se	ervice	activation=call transfer, Call transfer					
Comments	SIP-I		SUT		ISUP					
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM					
	180 Ringing(ACM)	+		+	ACM					
	200 OK INVITE(ANM)	+		+	ANM					
	ACK	<b>→</b>								
		(	Conversation	n						
	INVITE(CPG, sendonly)	<b>→</b>		<b>→</b>	CPG(hold)					
	200 OK INVITE(recvonly)	+								
	ACK	<b>→</b>								
	INFO(FAC)	<b>→</b>		<b>→</b>	FAC(call transfer active, CTNb)					
	200 OK INFO	+								
	INVITE(sendrecv)	<b>→</b>								
	200 OK INVITE(sendrecv)	+								
	ACK	<b>→</b>								
	BYE(REL)	<b>→</b>		<b>→</b>	REL					
	200 OK BYE(RLC)	+		<b>←</b>	RLC					

TP412021	SIP reference: RFC 3261 [4]		Q.1912.5 [ Q.732	1], cl	SUP reference: lauses 5.4.3, 5.4.3.2 and B.8, .5], clause 7.5.2.1.1.1 a)						
TSS reference	ISUP-SIP-ISUP/SS/ECT										
SIP selection											
criteria											
ISUP selection											
criteria	Call transfer number name and of										
Test purpose	Verify that the IUT removes the cour number if it is the network's own cou	Call transfer number - removal of own country code  Verify that the IUT removes the country code in the address signals of the call transfer number if it is the network's own country code contained in the ISUP FAC message. The nature of address indicator shall be set to "national (significant) number"									
SIP parameter	INVITE: Content-Type: multipart/mix	ed, Cor	ntent-Type: a	applic	cation/ISUP; CPG						
values	body	encapsulated in the MIME body INFO: Content-Type: application/ISUP; FAC(CTNb=national) encapsulated in the MIME									
ISUP parameter	CPG: Event indicator=progress, Ger	neric no	tification=ho	ld							
values	FAC: Generic notification=call transf number=international(PIXIT)	er activ	e, Service a	ctivat	ion=call transfer, Call transfer						
Comments	ISUP		SUT		SIP-I						
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)						
	ACM	+		+	180 Ringing(ACM)						
	ANM	<b>←</b>		<b>←</b>	200 OK INVITE(ANM)						
				<b>→</b>	ACK						
			onversatio								
	CPG(hold)	→		<b>→</b>	INVITE(CPG, sendonly)						
				+	200 OK INVITE(recvonly)						
				<b>→</b>	ACK						
	FAC(call transfer active, CTNb)	→		<b>→</b>	INFO(FAC)						
	,			+	200 OK INFO						
				<u> </u>	15 D (1777)						
				<b>→</b>	INVITE(sendrecv)						
				<b>+</b>	200 OK INVITE(sendrecv)						
				<b>→</b>	ACK						
	DEL			_	DVE(DEL)						
	REL	<b>→</b>		<b>→</b>	BYE(REL)						
	RLC	~		_	200 OK BYE(RLC)						

TP412022	SIP reference: RFC 3261 [4	]		[1], c	SUP reference: lauses 5.4.3, 5.4.3.2 and B.8, .5], clause 7.5.2.1.1.1 a)					
TSS reference	ISUP-SIP-ISUP/SS/ECT									
SIP selection										
criteria										
ISUP selection										
criteria	ECT - Interaction with SUB									
Test purpose	Verify that if the IUT is able to transfer the sub-address in the access transport parameter in the ISUP FAC message contained in the SIP-I INFO request in ISUP FAC message and vice versa received in an ISUP FAC message in a SIP-I INFO request containing the ISUP FAC message. These are the calling sub-address for incoming calls and the connected sub-address for outgoing calls.  O-MGCF interworking.									
SIP parameter	INFO: Content-Type: application/ISI	UP: FAC	encapsula	ted in	the MIME body					
values	пи от отнешения турог орранования	, , , , , , ,								
ISUP parameter values	FAC: Generic notification=call trans number(PIXIT) FAC: ATP contained the connected		,	ctivat	ion=call transfer, Call transfer					
Comments	ISUP		SUT		SIP-I					
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)					
	ACM	+		+	180 Ringing(ACM)					
	ANM	+		+	200 OK INVITE(ANM)					
				<b>→</b>	ACK					
		С	onversatio	n						
	FAC(call transfer active, CTNb)	<b>→</b>		<b>→</b>	INFO(FAC)					
				+	200 OK INFO					
	FAC(ATP=SUB)	+		+	INFO(FAC)					
	/			<b>→</b>	200 OK INFO					
	FAC(ATP=SUB)	<b>→</b>		<b>→</b>	INFO(FAC)					
	I AU(ATF=30b)	<del></del>		<del></del>	200 OK INFO					
				_	ZUU UK IINFU					
	REL	<b>→</b>		<b>→</b>	BYE(REL)					
		+								

#### 5.3.13 3PTY

TP413001	SIP reference: RFC 3261 [4]		Q.	SUP reference:   2.5 [1], clause B15,				
					8], clauses 2.4 and 2.2.1			
TSS reference	ISUP-SIP-ISUP/SS/3PTY		•		-			
SIP selection								
criteria								
ISUP selection								
criteria								
Test purpose	Served user initiates 3PTY							
	Verify that the served user with two active							
	(remote held user) to a three-way conve	ersati	on, and notify	the	implied remote party			
	accordingly.							
	The IUT should transfer an ISUP CPG r							
	set to "conference established" in a SIP							
	message. The <b>event indicator</b> in the C	<b>PG</b> s	hould be set to	o "p	orogress":			
	<ol> <li>setup a call to user B;</li> </ol>							
	<ol><li>put this call on hold;</li></ol>							
	3. join this call to a conference.							
OID .	O-MGCF interworking.	_	<u>.</u>					
SIP parameter	INVITE: Content-Type: multipart/mixed,	Con	tent-Type: app	olica	ation/ISUP; CPG			
values	encapsulated in the MIME body							
ISUP parameter	CPG: Event indicator=progress, Generic							
values	CPG: Event indicator=progress, Generic	c noti		eren				
Comments	ISUP	_	SUT		SIP-I			
		<b>→</b>			INVITE(IAM)			
		<del>(</del>			180 Ringing(ACM)			
	ANM	<b>←</b>		<u> </u>	200 OK INVITE(ANM)			
				<u>→</u>	ACK			
			onversation					
	CPG(hold)	<b>→</b>		<del>)</del>	INVITE(CPG, sendonly)			
				<del>(</del>	200 OK INVITE(recvonly)			
			-	<u>→</u>	ACK			
	CPG(conference established) → INVITE(CPG, sendrection							
	C. C(control croc cotabilation)	-		<del>_</del>	200 OK INVITE(sendrecv)			
				<u>`</u> →	ACK			
		С	onversation					
	REL	<b>→</b>	-	<del>&gt;</del>	BYE(REL)			
	RLC	+	1	<del>(</del>	200 OK BYE(RLC)			

TP413002	SIP reference: RFC	3261 [4		ISUP reference: Q.1912.5 [1], clause B15,		
				Q.7	734.2 [i.8], clauses 2.4 and 2.2.1	
TSS reference	ISUP-SIP-ISUP/SS/3PTY		•			
SIP selection						
criteria						
ISUP selection						
criteria						
Test purpose	Served user initiates 3PTY					
					ated, can successfully join this call	
		-way co	onversation,	and r	notify the implied remote party	
	accordingly.					
					ic notification indicator set to	
		ooth im	plied parties	. The	event indicator in the CPG should	
	be set to "progress":					
	1. setup a call to user B;					
	<ul><li>2. put this call on hold;</li><li>3. join this call to a conferer</li></ul>	200				
	I-MGCF interworking	ice.				
SIP parameter	INVITE: Content-Type: multi	nart/mix	ved Conten	t-Type	a: application/ISLIP: CPG	
values	encapsulated in the MIME be		kca, conten	Гурс	. application/1001; of G	
ISUP parameter	CPG: Event indicator=progre		neric notifica	ation=l	hold	
values	CPG: Event indicator=progre					
Comments	SIP-I		SUT		ISUP	
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM	
	180 Ringing(ACM)	+		+	ACM	
	200 OK INVITE(ANM)	+		+	ANM	
	ACK	<b>→</b>				
		С	onversatio	n		
	INVITE(CPG, sendonly)	<b>→</b>		<b>→</b>	CPG(hold)	
	200 OK INVITE(recvonly)	+				
	ACK	<b>→</b>				
	IN (ITE (ODO )	+		$\perp$	000/ (	
	INVITE(CPG, sendrecv)	<b>→</b>		<b>→</b>	CPG(conference established)	
	200 OK INVITE(sendrecv)	+				
	ACK →					
	DVE(DEL)		onversatio	_	DE!	
	BYE(REL)	<b>→</b>		<b>→</b>	REL	
	200 OK BYE(RLC)	<b>←</b>		+	RLC	

TP413003	SIP reference: RFC 3261 [	[4]	Q.73	Q.19	ISUP reference: 12.5 [1], clause B15, .8], clauses 2.4 and 2.2.1						
TSS reference	ISUP-SIP-ISUP/SS/3PTY										
SIP selection											
criteria											
ISUP selection											
criteria											
SIP parameter values ISUP parameter	Served user initiates 3PTY  Verify that the served user with two active calls is located, can successfully join this call (remote active user) to a three-way conversation, and notify the implied remote party accordingly.  The IUT should send a CPG message with the generic notification indicator set to "conference established" to both implied parties. The event indicator in the CPG should be set to "progress":  1. setup a call to user B; 2. establish a conference.  O-MGCF interworking.  INFO/INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; CPG encapsulated in the MIME body										
values	CPG: Event indicator=progress, Ge	eneric notii	iication=cor	nere	nce established						
Comments	ISUP		SUT		SIP-I						
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)						
	ACM	+		+							
	ANM	+		+	200 OK INVITE(ANM)						
				<b>→</b>	ACK						
		Co	onversatio	n							
	CASE A										
	CPG(conference established)	<b>→</b>		<b>→</b>	INFO(CPG)						
				+	200 OK INFO						
	CASE B										
	CPG(conference established)	<b>→</b>		<b>→</b>	INVITE(CPG, sendrecv)						
				+	200 OK INVITE(sendrecv)						
				→	ACK						
			onversatio	n							
	REL	<b>→</b>		<b>→</b>	BYE(REL)						
	RLC	<b>←</b>		<b>←</b>	200 OK BYE(RLC)						

TP413004	SIP reference: RFC 3261 [4]			Q.7	ISUP reference: Q.1912.5 [1], clause B15, 734.2 [i.8], clauses 2.4 and 2.2.1				
TSS reference	ISUP-SIP-ISUP/SS/3PTY								
SIP selection									
criteria									
ISUP selection									
criteria Test purpose	Served user initiates 3PTY								
	Verify that the served user with two active calls is located, can successfully join this call (remote active user) to a three-way conversation, and notify the implied remote party accordingly.  The IUT should send a <b>CPG</b> message with the <b>generic notification indicator</b> set to "conference established" to both implied parties. The <b>event indicator</b> in the <b>CPG</b> should be set to "progress":  1. setup a call to user B;  2. establish a conference.  I-MGCF interworking.								
SIP parameter	INFO/INVITE: Content-Type	: multip	art/mixed,	Conten	t-Type: application/ISUP; CPG				
values	encapsulated in the MIME b		,		71 - 11				
ISUP parameter values	CPG: Event indicator=progre		neric notifi	cation=	conference established				
Comments	SIP-I		SUT		ISUP				
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM				
	180 Ringing(ACM)	+		+	ACM				
	200 OK INVITE(ANM)	+		+	ANM				
	ACK	<b>→</b>							
		С	onversati	on					
	INFO(CPG)	<b>→</b>		<b>→</b>	CPG(conference established)				
	200 OK INFO	+							
	CASE B								
	INVITE(CPG,sendrecv)	<b>→</b>		<b>→</b>	CPG(conference established)				
	200 OK INVITE(sendrecv)	+							
	ACK	<b>→</b>							
		С	onversati	on					
	BYE(REL)	<b>→</b>		<b>→</b>	REL				
	200 OK BYE(RLC)	+		+	RLC				

TP413005	SIP reference: RFC 3261 [4	ISUP reference: Q.1912.5 [1], clause B15, Q.734.2 [i.8], clause 2.5.2.1.1.3 a)									
TSS reference	ISUP-SIP-ISUP/SS/3PTY										
SIP selection											
criteria											
ISUP selection											
criteria											
Test purpose	Served user creates a private communication with a remote user  Verify that a 3PTY call can successfully create private communication with the active-held user. The appropriate notification received in a ISUP CPG and is sent in INVITE/INFO (CPG) messages to the SIP-I.  O-MGCF interworking.										
SIP parameter values	INFO/INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; CPG encapsulated in the MIME body										
ISUP parameter	CPG 1, 4: Event indicator=progress,	Generi	c notification	n=hol	d						
values	CPG 5: Event indicator=progress, GCPG 2: Event indicator=progress, GCPG 3:	eneric n eneric n	notification=i notification=i	etriev confe	rence established						
Comments	ISUP		SUT		SIP-I						
-3	IAM	<b>→</b>	331	<b>→</b>	INVITE(IAM)						
	ACM	<del>/</del>		<del>′</del>	180 Ringing(ACM)						
	ANM	+		+	200 OK INVITE(ANM)						
				<b>→</b>	ACK						
		С	onversatio	n							
	CASE A										
	CPG 1(hold)	<b>→</b>		<b>→</b>	INVITE(CPG, sendonly)						
				+	200 OK INVITE(recvonly)						
				<b>→</b>	ACK						
	CPG 2(conference established)	<b>→</b>		→	INVITE(CPG, sendrecv)						
				+	200 OK INVITE(sendrecv)						
				→	ACK						
	CPG 3(conference disconnected)	<b>→</b>		<b>→</b>	INFO(CPG)						
				+	200 OK INFO						
	070 (# 1 1)			<u> </u>							
	CPG 4(hold)	<b>→</b>		<b>→</b>	INVITE(CPG, sendonly)						
				<b>+</b>	200 OK INVITE(recvonly)						
				<b>→</b>	ACK						
	CDC E(ratria)	<b>→</b>			INIVITE (CDC, condragy)						
	CPG 5(retrieve)	7		<b>→</b>	INVITE(CPG, sendrecv)						
				7	200 OK INVITE(sendrecv) ACK						
			l Conversatio		NOIX						
	CPG 6(conference established)	→	Julyersallo	"→	INFO(CPG)						
	c. S c(comorcine catabilatica)			+	200 OK INFO						
				† <u> </u>							
		С	onversatio	n							
	REL	<b>→</b>			BYE(REL)						
	RLC	<del>-</del>		+	200 OK BYE(RLC)						
	CASE B				-/						
	CPG 1(hold)	<b>→</b>		<b>→</b>	INVITE(CPG, sendonly)						
				+	200 OK INVITE(recvonly)						
				<b>→</b>	ACK						
	CPG 2(conference established)	→		<b>→</b>	INVITE(CPG, sendrecv)						
				+	200 OK INVITE(sendrecv)						
				<b>→</b>	ACK						
				1_							
	CPG 3(conference disconnected)	<b>→</b>		<b>→</b>	INVITE(CPG,sendrecv)						
				<u>+</u>	200 OK INVITE(sendrecv)						
				<b>→</b>	ACK						
	000 40 40	1.		+-							
	CPG 4(hold)	<b>→</b>		<b>→</b>	INVITE(CPG, sendonly)						
		l	<b>←</b>	200 OK INVITE(recvonly)							

			<b>^</b>	ACK
CPG 5(retrieve)	1		1	INVITE(CPG, sendrecv)
			4	200 OK INVITE(sendrecv)
			1	ACK
	O	onversation	1	
CPG 6(conference established)	<b>^</b>		<b>→</b>	INVITE(CPG,sendrecv)
			+	200 OK INVITE(sendrecv)
			<b>→</b>	ACK
	С	onversation	1	
REL	<b>→</b>		<b>→</b>	BYE(REL)
RLC	+		+	200 OK BYE(RLC)

TP413006	SIP reference: RFC 3261 [4] ISUP reference: Q.1912.5 [1], clause B15 Q.734.2 [i.8], clause 2.5.2.1.									
TSS reference	ISUP-SIP-ISUP/SS/3PTY		<u> </u>							
SIP selection										
criteria										
ISUP selection										
criteria										
Test purpose	Served user creates a priva									
	Verify that a 3PTY call can successfully create private communication with the active-held user. The appropriate notification received in a INVITE/INFO (CPG) and is sent in <b>CPG</b> messages to the ISUP.  I-MGCF interworking.									
SIP parameter values			ipart/mixed, C	Conten	t-Type: application/ISUP; CPG					
ISUP parameter	CPG: Event indicator=progre		eneric notifica	ation=	hold					
values	CPG: Event indicator=progre									
741400	CPG: Event indicator=progre									
	CPG: Event indicator=progre									
Comments	SIP-I	T .	SUT		ISUP					
	INVITE(IAM)	<b>→</b>		<b>→</b>						
	180 Ringing(ACM)	+		+	ACM					
	200 OK INVITE(ANM)	+		+	ANM					
	ACK	<b>→</b>								
			Conversatio	n						
	CASE A									
	INVITE(CPG, sendonly)	<b>→</b>		<b>→</b>	CPG(hold)					
	200 OK INVITE(recvonly)	+			` '					
	ACK	<b>→</b>								
	INVITE(CPG, sendrecv)	<b>→</b>		<b>→</b>	CPG(conference established)					
	200 OK INVITE(sendrecv)	+								
	ACK	<b>→</b>								
	INFO(CPG)	<b>→</b>		→	CPG(conference disconnected)					
	200 OK INFO	+								
	INVITE(CPG, sendonly)	<b>→</b>		<b>→</b>	CPG(hold)					
	200 OK INVITE(recvonly)	<b>←</b>								
	ACK	<b>→</b>	1							
	INIVITE (ODO	_	1		000/ /: )					
	INVITE(CPG, sendrecv)	<b>→</b>	1	<b>→</b>	CPG(retrieve)					
	200 OK INVITE(sendrecv)	+	1	-	<u> </u>					
	ACK	<b>→</b>	Converse!		<u> </u>					
	INEO(CBC)		Conversatio	n I→	CDC(conforces actablished)					
	INFO(CPG)	<b>→</b>	+	+7	CPG(conference established)					
	200 OK INFO	_	Conversatio	n						
	BYE(REL)	<b>→</b>		<u>''</u> →	REL					
	200 OK BYE(RLC)	<del>-</del>	1	+	RLC					
	CASE B	-	1	+	INLO					
	INVITE(CPG, sendonly)	<b>→</b>	1	→	CPG(hold)					
	200 OK INVITE(recvonly)	+	1	+	O O(Hold)					
	ACK	→ ·	1							
	7.01	+								
	INVITE(CPG, sendrecv)	<b>→</b>	†	<b>→</b>	CPG(conference established)					
	200 OK INVITE(sendrecv)	+	†	+-	(comorono cotabilarioa)					
	ACK	1								
	-		1							
	INVITE(CPG,sendrecv)	<b>→</b>	1	<b>→</b>	CPG(conference disconnected)					
	200 OK INVITE(sendrecv)	+								
	ACK	<b>→</b>								
	INVITE(CPG, sendonly)	<b>→</b>		<b>→</b>	CPG(hold)					
	200 OK INVITE(recvonly)	+			, ,					

ACK	<b>→</b>			
INVITE(CPG, sendrecv)	<b>→</b>		<b>→</b>	CPG(retrieve)
200 OK INVITE(sendrecv)	+			
ACK	<b>→</b>			
		Conversation		
INVTE(CPG,sendrecv)	<b>→</b>		<b>→</b>	CPG(conference established)
200 OK INVITE(sendrecv)	+			
ACK	<b>→</b>			
		Conversation		
BYE(REL)	<b>→</b>		<b>→</b>	REL
200 OK BYE(RLC)	+		+	RLC

TP413007	SIP reference: RFC 3261 [4	]		Į	SUP reference:				
		_		Q.1912.5 [1], clause B15,					
		Q.734.2 [i.8], clause 2.5.2.1.1.3 a)							
TSS reference	ISUP-SIP-ISUP/SS/3PTY								
SIP selection criteria									
ISUP selection									
criteria									
Test purpose	Served user creates a private communication with a remote user  Verify that the IUT (controlling the conference) on a 3PTY call can successfully create private communication with the active-idle user. The appropriate notification is sent in CPG messages to the user.  O-MGCF interworking.								
SIP parameter values	INFO/INVITE: Content-Type: multipa encapsulated in the MIME body	rt/mixed	, Content-Ty	/pe: a	application/ISUP; CPG				
ISUP parameter	CPG: Event indicator=progress, Gen	eric noti	fication=conf	ferer	nce established				
values	CPG: Event indicator=progress, Gen								
Comments	ISUP		SUT		SIP-I				
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)				
	ACM	+			180 Ringing(ACM)				
	ANM	+		<del>-</del>	200 OK INVITE(ANM)				
				<b>→</b>	ACK				
	Conversation								
	CASE A	Î		·					
	CPG(conference established)	→		<b>→</b>	INFO(CPG)				
				+	200 OK INFO				
	CPG(conference disconnected)	<b>→</b>		<b>→</b>	INFO(CPG)				
				<b>←</b>	200 OK INFO				
		Co	onversation						
	CPG(conference established)	<b>→</b>		<b>→</b>	INFO(CPG)				
	,			+	200 OK INFO				
		Co	onversation						
	REL	→		<b>→</b>	BYE(REL)				
	RLC	+		+	200 OK BYE(RLC)				
	CASE B	1 1							
	CPG(conference established)	→		<b>→</b>	INVITE(CPG,sendrecv)				
				+	200 OK INVITE(sendrecv)				
				<b>→</b>	ACK				
	CPG(conference disconnected)	<b>→</b>		<b>→</b>	INVITE(CPG,sendrecv)				
				<b>←</b>	200 OK INVITE(sendrecv)				
				<b>→</b>	ACK				
		Co	onversation						
	CPG(conference established)	<b>→</b>		<b>→</b>	INVITE(CPG,sendrecv)				
				<b>←</b>	200 OK INVITE(sendrecv)				
				<b>→</b>	ACK				
		Co	onversation						
	REL	<b>→</b>		<b>→</b>	BYE(REL)				
	RLC	+		<b>←</b>	200 OK BYE(RLC)				

TP413008	SIP reference: RFC	3261	[4]		ISUP reference: Q.1912.5 [1], clause B15,				
				Q.	734.2 [i.8], clause 2.5.2.1.1.3 a)				
TSS reference	ISUP-SIP-ISUP/SS/3PTY								
SIP selection									
criteria									
ISUP selection									
criteria									
Test purpose	Served user creates a priv								
					PTY call can successfully create				
		the act	tive-idle use	r. The a	appropriate notification is sent in CPG				
	messages to the user.								
CID novemeter	I-MGCF interworking.			01	4 T /101 ID. ODO				
SIP parameter values			part/mixed,	Conten	t-Type: application/ISUP; CPG				
ISUP parameter	encapsulated in the MIME b CPG: Event indicator=progr		anaria natifi	ootion	aanfaranaa aatabliahad				
values	CPG: Event indicator=progr								
Comments	SIP-I	533, G	SUT		ISUP				
Comments	INVITE(IAM)	<b>→</b>	301	<b>→</b>	IAM				
	180 Ringing(ACM)	<del>/</del>		+	ACM				
	200 OK INVITE(ANM)	+		+	ANM				
	ACK	<b>→</b>		+	ANIVI				
	Conversation								
	CASE A		Oonversan	<u> </u>					
	INFO(CPG)	<b>→</b>		<b>→</b>	CPG(conference established)				
	200 OK INFO	+		<del>'</del>	Of O(conference established)				
	200 01(11(1 0	<b>—</b>							
	INFO(CPG)	<b>→</b>		<b>→</b>	CPG(conference disconnected)				
	200 OK INFO	+			or e(corneronce discornicated)				
	200 011 111 0		Conversation	on					
	INFO(CPG)	<b>→</b>		→	CPG(conference established)				
	200 OK INFO	+							
			Conversation	on					
	BYE(REL)	<b>→</b>		<b>→</b>	REL				
	200 OK BYE(RLC)	+		+	RLC				
	CASE B								
			Conversation	on					
	INVITE(CPG,sendrecv)	<b>→</b>		<b>→</b>	CPG(conference established)				
	200 OK INVITE(sendrecv)	+			,				
	ACK	<b>→</b>							
	INVITE(CPG,sendrecv)	<b>→</b>		<b>→</b>	CPG(conference disconnected)				
	200 OK INVITE(sendrecv)	+							
	ACK	<b>→</b>							
			Conversation	on					
	INVITE(CPG,sendrecv)	<b>→</b>		<b>→</b>	CPG(conference established)				
	200 OK INVITE(sendrecv)	+							
	ACK	<b>→</b>							
			Conversation	on					
	BYE(REL)	<b>→</b>		<b>→</b>	REL				
	200 OK BYE(RLC)	+		+	RLC				

TP413009	SIP reference: RFC 3261 [4]	1		1912.5 [	reference: [1], clause B15, clause 2.5.2.1.1.3 b)				
TSS reference	ISUP-SIP-ISUP/SS/3PTY								
SIP selection									
criteria									
ISUP selection									
criteria									
Test purpose	Verify that the IUT (controlling the co the active-held user and retain and n messages.  The IUT should send to the appropria notification indicator. The event in O-MGCF interworking.	nference otify the	e) on a 3PTY other user apote users <b>CPG</b>	call can propriat messag	successfully disconnect ely using <b>CPG</b> ges with a <b>generic</b>				
SIP parameter	INFO/INVITE: Content-Type: multipa	rt/mixed	d, Content-Typ	e: applio	cation/ISUP; CPG				
values	encapsulated in the MIME body								
ISUP parameter	CPG: Event indicator=progress, Gen								
values	CPG: Event indicator=progress, Gen			erence d	isconnected				
Comments	ISUP		SUT	SIP-	-I				
	IAM	<b>→</b>	-	<b>→</b> INV	ITE(IAM)				
	ACM	+	•	<b>-</b> 180	Ringing(ACM)				
	ANM	+	•	<b>(</b> 200	OK INVITE(ANM)				
			-	→ ACk	(				
	Conversation								
	CPG(conference established)	<b>→</b>	-	→ INF	O(CPG)				
	,		•	<b>-</b> 200	OK INFO				
	CPG(conference disconnected)	<b>→</b>	-	→ INF	O(CPG)				
	,		•		OK INFO				
		С	onversation						
	REL	<b>→</b>	-	→ BYE	(REL)				
	RLC	+	•		OK BYE(RLC)				
	CASE B								
	CPG(conference established)	<b>→</b>	1-	→ INV	ITE(CPG,sendrecv)				
	2. 2(233.33.3)	-		<b>-</b> 200	OK INVITE(sendrecv)				
			-	→ ACK					
					-				
	CPG(conference disconnected)	<b>→</b>	-	→ INV	ITE(CPG,sendrecv)				
	2 (222.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	_			OK INVITE(sendrecv)				
				→ ACK					
		C	onversation	7.5					
	REL	<b>→</b>		<b>→</b> BYE	(REL)				
	RLC	+			OK BYE(RLC)				
	<u> </u>	<del>                                     </del>							

TP413010	SIP reference: RFC	3261	[4]		ISUP reference:				
					Q.1912.5 [1], clause B15,				
				Q.	734.2 [i.8], clause 2.5.2.1.1.3 b)				
TSS reference	ISUP-SIP-ISUP/SS/3PTY								
SIP selection									
criteria	_								
ISUP selection criteria									
Test purpose	Served user disconnects of	no ro	mote user	and ret	ains the other				
rest purpose					PTY call can successfully disconnect				
	the active-held user and reta								
	messages.				or appropriately coming of o				
		appro	oriate remot	e users	CPG messages with a generic				
	notification indicator. The	event	indicator in	n the CF	PG should be set to "progress"				
	I-MGCF interworking.								
SIP parameter			ipart/mixed,	Conten	t-Type: application/ISUP; CPG				
values	encapsulated in the MIME bo								
ISUP parameter	CPG: Event indicator=progre	ess, G	eneric notifi	cation=	conference established				
values	CPG: Event indicator=progre	ess, G		cation=					
Comments	SIP-I	1	SUT		ISUP				
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM				
	180 Ringing(ACM)	<b>←</b>		<del>-</del>	ACM				
	200 OK INVITE(ANM)	<u> </u>		+	ANM				
	ACK	<b>→</b>							
	Conversation								
	CASE A	+			000/ / / / / / / /				
	INVITE(CPG,sendrecv)	<b>→</b>	1	→	CPG(conference established)				
	200 OK INVITE(sendrecv)	<b>←</b>							
	ACK	7	1						
	INIVITE (CDC a andreasy)	<b>→</b>	1	<b>→</b>					
	INVITE(CPG,sendrecv) 200 OK INVITE(sendrecv)	<del></del>		7	CPG(conference disconnected)				
	ACK	<b>→</b>	1						
	ACK	7	 Conversati	on					
	BYE(REL)	<b>→</b>		<u> </u>	REL				
	200 OK BYE(RLC)	<del>/</del>		<del>-</del>	RLC				
	CASE B	+		_	INEO				
	INVITE(CPG,sendrecv)	<b>→</b>		→	CPG(conference established)				
	200 OK INVITE(sendrecv)	+		<del></del>	er e(corrected established)				
	ACK	<b>→</b>							
	, (3)(	+-							
	INVITE(CPG,sendrecv)	<b>→</b>		→	CPG(conference disconnected)				
	200 OK INVITE(sendrecv)	+		<u> </u>	(				
	ACK	<b>→</b>							
		† <u>-</u>	Conversati	on					
	BYE(REL)	<b>→</b>		→	REL				
	200 OK BYE(RLC)	+		+	RLC				
			1						

TSS reference SIP selection	SIP reference: RFC 3261 [4] ISUP reference: Q.1912.5 [1], clause B15, Q.734.2 [i.8], clause 2.5.2.1.1.3 b)						
SIP selection	ISUP-SIP-ISUP/SS/3PTY		•				
criteria							
ISUP selection criteria							
Test purpose	Served user disconnects one remote	e use	r and retains	s the	other		
	Verify that the IUT (controlling the conf the active-idle user and retain and notif messages. The IUT should send to the appropriate notification indicator. The event indi O-MGCF interworking.	fy the e rem cator	other user a ote users <b>CP</b> in the <b>CPG</b>	pprop <b>G</b> mashou	priately using <b>CPG</b> essages with a <b>generic</b> Id be set to "progress".		
	INFO/INVITE: Content-Type: multipart/	mixe	d, Content-Ty	/pe: a	application/ISUP; CPG		
	encapsulated in the MIME body						
	CPG: Event indicator=progress, Gener						
	CPG: Event indicator=progress, Gener						
	CPG: Event indicator=progress, Gener	ic not	ification=con	ferer			
	ISUP		SUT		SIP-I		
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)		
	ACM	+		4	180 Ringing(ACM)		
	ANM	+		+	200 OK INVITE(ANM)		
[				<b>→</b>	ACK		
		С	onversation	1			
1	CASE A						
I ====================================	CPG(hold)	<b>→</b>		<b>→</b>	INVITE(CPG, sendonly)		
Ī				+	200 OK INVITE(recvonly)		
<b> </b>				<b>→</b>	ACK		
					, tott		
	CPG(conference established)	<b>→</b>		<b>→</b>	INVITE(CPG, sendrecv)		
<u> </u>	Of O(contended established)			<del>′</del>	200 OK INVITE(sendrecv)		
				<del>`</del>	ACK		
					AOR		
1	CPG(conference disconnected)	<b>→</b>		<b>→</b>	INFO(CPG)		
<u> </u>	Of O(contenence disconnected)			<del>-</del>	200 OK INFO		
				•	200 OK IIVI O		
<u> </u>	CPG(hold)	<b>→</b>		<b>→</b>	INVITE(CPG, sendonly)		
<u> </u>	Ci G(ilola)			<del>_</del>	200 OK INVITE(recvonly)		
<del> </del>				<b>→</b>	ACK		
				7	ACK		
	DEL			_	DVE(DEL)		
	REL RLC	<b>→</b>		<b>→</b>	BYE(REL) 200 OK BYE(RLC)		
	CASE B	_		_	200 OK BYE(RLC)		
		_		_	INDUITE (ODO d d- )		
<u> </u>	CPG(hold)	<b>→</b>		<del>}</del>	INVITE(CPG, sendonly)		
				<u>+</u>	200 OK INVITE(recvonly)		
				<b>→</b>	ACK		
	000/ (				NN/ITE/050		
	CPG(conference established)	<b>→</b>		<b>→</b>	INVITE(CPG, sendrecv)		
				<u> </u>	200 OK INVITE(sendrecv)		
				<b>→</b>	ACK		
	000/				N. 1/15/05 2		
	CPG(conference disconnected)	<b>→</b>		<b>→</b>	INVITE(CPG,sendrecv)		
				+	200 OK INVITE(sendrecv)		
				<b>→</b>	ACK		
	0000000						
<u>[</u>	CPG(hold)	<b>→</b>		<b>→</b>	INVITE(CPG, sendonly)		
				+	200 OK INVITE(recvonly)		
				<b>→</b>	ACK		
	REL	<b>→</b>		<b>^</b>	BYE(REL)		
[	RLC	+		+	200 OK BYE(RLC)		
[							

SUP-SIP-ISUP/SS/3PTY	TP413012	CID reference: DEC	2264	F.41		ICUD votovenes			
Q.734.2 [i.8], clause 2.5.2.1.1.3 b)	17413012	SIP reference: RFC	3 <b>2</b> 0 I	[4]					
TSS reference   ISUP-SIVP/SS/3PTY									
SIP selection criteria  SUP selection criteria  Served user disconnects one remote user and retains the other Verify that the IUT (controlling the conference) on a 3PTY call can successfully disconnect the active-idle user and retain and notify the other user appropriately using CPG messages. The IUT should send to the appropriate remote users CPG messages with a generic notification indicator. The event indicator in the CPG should be set to 'progress'.  O-MGCF interworking.  INFO/INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; CPG encapsulated in the MIME body.  SIP parameter values  CPG: Event indicator-progress, Generic notification-conference established CPG: Event indicator-progress, Generic notification-conference disconnected.  SIP-1 SUT ISUP INVITE(IAM)	TCC matamana	IOLID OID IOLID/OC/ODTY			Ų.	734.2 [1.6], clause 2.5.2.1.1.3 b)			
Served user disconnects one remote user and retains the other		ISUP-SIP-ISUP/SS/3PTY							
Superiorities   Served user disconnects one remote user and retains the other									
Served user disconnects one remote user and retains the other									
Test purpose  Served user disconnects one remote user and retains the other Verify that the IUT (controlling the conference) on a 3PTV call can successfully disconnect the active-idle user and retain and notify the other user appropriately using CPG messages.  The IUT should send to the appropriate remote users CPG messages with a generic notification indicator. The event indicator in the CPG should be set to "progress".  O-MIGC Finterworking.  SIPP parameter values  INFO/INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; CPG encapsulated in the MIME body  CPG: Event indicator-progress, Generic notification—bold  CPG: Event indicator-progress, Generic notification—conference established  CPG: Event indicator-progress, Generic notification—conference disconnected  SIPI SIPI  SIPI SUT ISUP  INVITE(IAM)									
Verify that the IUT (controlling the conference) on a 3PTY call can successfully disconnect the active-ide user and retain and notify the other user appropriately using CPG messages.  The IUT should send to the appropriate remote users CPG messages with a generic notification indicator. The event indicator in the CPG should be set to "progress".  O-MGCF intervorking.  SIP parameter values  IINFOINVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; CPG encapsulated in the MIME body  CPG: Event indicator-progress, Generic notification=hold  CPG: Event indicator-progress, Generic notification=conference established  CPG: Event indicator-progress, Generic notification=conference disconnected  SIP-I ISUP  INVITE(IAM) → IMM  INVITE(IAM) → IMM  INVITE(IAM) ← ACM  ACM  200 OK INVITE(ANIM) ← ACM  ACK  Conversation  CASE A  INVITE(CPG, sendonly) → CPG(hold)  200 OK INVITE(recvonly) ← ACK  ACK  INVITE(CPG, sendonly) → CPG(conference established)  200 OK INVITE(sendrecv) ← ACM  ACK  ACK  INVITE(CPG, sendonly) → CPG(hold)  200 OK INVITE(recvonly) ← ACK  ACK  ACK  ACK  ACK  ACK  ACK  ACK		Conved was disconnects o	no 40	mata usar an	d 204	sing the other			
the active-idle user and retain and notify the other user appropriately using CPG messages.  The IUT should send to the appropriate remote users CPG messages with a generic notification indicator. The event indicator in the CPG should be set to "progress".  O-MGCF interworking.  SIP parameter values  INFO/INVITE Content-Type: multipart/mixed, Content-Type: application/ISUP, CPG encapsulated in the MIME body content of	rest purpose								
messages. The IUT should send to the appropriate remote users CPG messages with a generic notification indicator. The event indicator in the CPG should be set to "progress".  O-MGCF interworking. INFO/INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP, CPG encapsulated in the MME body  CPG: Event indicator=progress, Generic notification=conference established CPG: Event indicator=progress, Generic notification=conference disconnected CPG: Event indicator=progress, Generic notification=conference established SUT III III III III III III III III III I									
The IUT should send to the appropriate remote users CPG messages with a generic notification indicator. The event indicator in the CPG should be set to "progress". O-MGCF interworking.  SIP parameter values  INFO/INVITE Content-Type: multipart/mixed, Content-Type: application/ISUP, CPG encapsulated in the MIME body encapsulated in the MIME body content of the MIME body			lana	notify the other	or asc	appropriately dailing of o			
notification indicator. The event indicator in the CPG should be set to "progress".  O_MGCP interworking.  INFO/INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP, CPG encapsulated in the MIME body  CPG: Event indicator=progress, Generic notification=hold CPG: Event indicator=progress, Generic notification=conference established CPG: Event indicator=progress, Generic notification=conference disconnected  SIP-I INVITE(IAM) SUT ISUP INVITE(IAM) SID Rigning(ACM) SIP ACM ACK  CONVERSATION  CASE A INVITE(CPG, sendonly) 200 OK INVITE(recvonly) ACK  INVITE(CPG, sendonly) 200 OK INVITE(sendrecv) ACK  INVITE(CPG, sendonly) ACK  BYE(REL)  200 OK BYE(RLC) CASE B INVITE(CPG, sendonly) ACK  INVITE(CPG, sendonly) ACK  BYE(REL)  200 OK INVITE(recvonly) ACK  INVITE(CPG, sendonly) ACK  INVITE(CPG, sendonly) ACK  BYE(REL)  ACK  INVITE(CPG, sendonly) ACK  ACK  ACK  ACK  ACK  ACK  ACK  ACK			nnror	oriate remote	users	CPG messages with a generic			
O-MGCF interworking.									
INFO/INN/ITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; CPG encapsulated in the MIME body						regions.			
values         encapsulated in the MIMic body           ISUP parameter values         CPG: Event indicator=progress, Generic notification=conference established CPG: Event indicator=progress, Generic notification=conference disconnected           SIP-1 SUT ISUP           INVITE(IAM)         +         +         ACM           200 OK INVITE(ANM)         +         +         ACM           200 OK INVITE(ANM)         +         +         ANM           ACK         +         ANM           CASE A         INVITE(CPG, sendonly)         +         +           ACK         +         +         +           INVITE(CPG, sendrecv)         +         +         +           200 OK INVITE(sendrecv)         +         +         +           ACK         +         +         +           INFO(CPG)         +         +         +           200 OK INFO         +         +         +           INVITE(CPG, sendonly)         +         +         +           200 OK BYE(RLC)         +         +         +           CASE B         INVITE(CPG, sendonly)         +         +         +           INVITE(CPG, sendonlecv)         +         +         +         + </td <td>SIP parameter</td> <td></td> <td>multi</td> <td>part/mixed. C</td> <td>onten</td> <td>t-Type: application/ISUP: CPG</td>	SIP parameter		multi	part/mixed. C	onten	t-Type: application/ISUP: CPG			
ISUP parameter values				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		, , , , , , , , , , , , , , , , , ,			
Values         CPG: Event indicator=progress, Generic notification=conference established CPG: Event indicator=progress, Generic notification=conference disconnected           SIP-1         SUT         ISUP           INVITE(IAM)         +         +         ACM           200 OK INVITE(ANM)         +         +         ANM           ACK         +         +         ANM           ACK         +         +         ANM           CASE A         INVITE(CPG, sendonly)         +         +         CPG(hold)           200 OK INVITE(recvonly)         +         +         +         CPG(conference established)           200 OK INVITE(Sendrecv)         +         +         -         CPG(conference established)           200 OK INVITE(Sendrecv)         +         +         -         CPG(conference established)           200 OK INVITE(PG, sendonly)         +         +         -         CPG(hold)           200 OK BYE(RLC)         +         +         -         -           ACK         +         +         -         -           BYE(REL)         +         +         -         -           BYE(REC)         +         +         -         -           ACK </td <td>ISUP parameter</td> <td>CPG: Event indicator=progre</td> <td>ss. G</td> <td>eneric notifica</td> <td>tion=</td> <td>hold</td>	ISUP parameter	CPG: Event indicator=progre	ss. G	eneric notifica	tion=	hold			
CPG: Event indicator=progress, Generic notification=conference disconnected           SIP-I INVITE(IAM)         SUT         ISUP           180 Ringing(ACM)         ←         ← ACM           200 OK INVITE(ANM)         ←         ← ANM           ACK         →         ANM           CASE A         INVITE(CPG, sendonly)         →         → CPG(hold)           200 OK INVITE(recvonly)         ←         ←         ACM           ACK         →         →         CPG(conference established)           200 OK INVITE(Sendrecv)         →         →         CPG(conference disconnected)           INVITE(CPG, sendonly)         →         →         CPG(conference disconnected)           200 OK INVITE(sendrecv)         ←         →         CPG(hold)           200 OK INVITE(recvonly)         ←         →         CPG(hold)           200 OK BYE(RL)         ←         ←         RLC           CASE A         INVITE(CPG, sendonly)         →         →         CPG(hold)           200 OK INVITE(recvonly)         ←         ←         RLC           CASE A         INVITE(CPG, sendrecv)         →         →         CPG(conference established)           200 OK INVITE(sendrecv)         ←         →         CPG(conferenc									
SIP-    SUT   ISUP   INVITE(IAM)   ->   IAM   I80 Ringing(ACM)   ->   ACM   ACM   ACK   ->   ANM   ANM   ACK   ->   ANM   A									
INVITE(IAM)	Comments								
180 Ringing(ACM) ←			<b>→</b>		<b>→</b>				
Conversation			+		+				
CASE A         INVITE(CPG, sendonly)         →         CPG(hold)           200 OK INVITE(recvonly)         ←         ACK         →         CPG(conference established)           INVITE(CPG, sendrecv)         →         →         CPG(conference established)           INFO(CPG)         →         →         CPG(conference disconnected)           200 OK INFO         →         →         CPG(hold)           200 OK INFO         →         →         CPG(hold)           200 OK INVITE(recvonly)         ←         ACK         →           BYE(REL)         →         →         REL           200 OK BYE(RLC)         ←         ←         RLC           CASE B         INVITE(CPG, sendonly)         →         →         CPG(hold)           200 OK INVITE(recvonly)         ←         ACK         →         CPG(conference established)           INVITE(CPG, sendrecv)         →         →         CPG(conference disconnected)           200 OK INVITE(sendrecv)         ←         ACK         →           INVITE(CPG, sendonly)         →         →         CPG(conference disconnected)           200 OK INVITE(sendrecv)         ←         ACK         →         ACPG(hold)           INVITE(CPG, sendonly) <td< td=""><td></td><td></td><td>+</td><td></td><td>+</td><td>ANM</td></td<>			+		+	ANM			
CASE A         INVITE(CPG, sendonly)         →         CPG(hold)           200 OK INVITE(recvonly)         ←         →         CPG(conference established)           INVITE(CPG, sendrecv)         →         →         CPG(conference established)           INFO(CPG)         →         →         CPG(conference disconnected)           200 OK INFO         →         →         CPG(bold)           INVITE(CPG, sendonly)         →         →         CPG(hold)           200 OK INVITE(recvonly)         ←         ACK         →           BYE(REL)         →         →         REL           200 OK BYE(RLC)         ←         ←         RLC           CASE B         INVITE(CPG, sendonly)         →         →         CPG(hold)           200 OK INVITE(recvonly)         ←         ACK         →         CPG(conference established)           INVITE(CPG, sendrecv)         →         →         CPG(conference disconnected)           200 OK INVITE(sendrecv)         ←         ACK         →           INVITE(CPG, sendonly)         →         →         CPG(conference disconnected)           200 OK INVITE(sendrecv)         ←         ACK         →           INVITE(CPG, sendonly)         →         →		. ,	<b>→</b>						
INVITE(CPG, sendonly)				Conversation	1				
INVITE(CPG, sendonly)		CASE A							
200 OK INVITE(recvonly) ←			<b>→</b>		<b>→</b>	CPG(hold)			
INVITE(CPG, sendrecv)			+						
200 OK INVITE(sendrecv)   ACK    INFO(CPG)   200 OK INFO    INVITE(CPG, sendonly)   200 OK INVITE(recvonly)   ACK    BYE(REL)   200 OK BYE(RLC)   CASE B   INVITE(CPG, sendonly)   200 OK INVITE(recvonly)   ACK    INVITE(CPG, sendonly)   200 OK INVITE(recvonly)   ACK    INVITE(CPG, sendonly)   200 OK INVITE(recvonly)   ACK    INVITE(CPG, sendonly)   200 OK INVITE(sendrecv)   ACK    ACK    INVITE(CPG, sendonly)   200 OK INVITE(sendrecv)   ACK    ACK    BYE(REL)    PREL			<b>→</b>						
200 OK INVITE(sendrecv)   ACK    INFO(CPG)   200 OK INFO    INVITE(CPG, sendonly)   200 OK INVITE(recvonly)   ACK    BYE(REL)   200 OK BYE(RLC)   CASE B   INVITE(CPG, sendonly)   200 OK INVITE(recvonly)   ACK    INVITE(CPG, sendonly)   200 OK INVITE(recvonly)   ACK    INVITE(CPG, sendonly)   200 OK INVITE(recvonly)   ACK    INVITE(CPG, sendonly)   200 OK INVITE(sendrecv)   ACK    ACK    INVITE(CPG, sendonly)   200 OK INVITE(sendrecv)   ACK    ACK    BYE(REL)    PREL									
200 OK INVITE(sendrecv)   ACK    INFO(CPG)   200 OK INFO    INVITE(CPG, sendonly)   200 OK INVITE(recvonly)   ACK    BYE(REL)   200 OK BYE(RLC)   CASE B   INVITE(CPG, sendonly)   200 OK INVITE(recvonly)   ACK    INVITE(CPG, sendonly)   200 OK INVITE(recvonly)   ACK    INVITE(CPG, sendonly)   ACK    INVITE(CPG, sendonly)   200 OK INVITE(recvonly)   ACK    INVITE(CPG, sendonly)   200 OK INVITE(sendrecv)   ACK    ACK    BYE(REL)    PREL		INVITE(CPG, sendrecv)	<b>→</b>		<b>→</b>	CPG(conference established)			
INFO(CPG)		200 OK INVITE(sendrecv)	+						
INVITE(CPG, sendonly)			<b>→</b>						
INVITE(CPG, sendonly)									
INVITE(CPG, sendonly)  200 OK INVITE(recvonly)  ACK  BYE(REL)  200 OK BYE(RLC)  CASE B  INVITE(CPG, sendonly)  200 OK INVITE(recvonly)  ACK  INVITE(CPG, sendrecv)  ACK  ACK  INVITE(CPG, sendonly)  ACK  ACK  ACK  BYE(REL)  ACK  ACK  ACK  ACK  ACK  BYE(REL)  AREL  CPG(hold)  CPG(conference disconnected)  CPG(hold)		INFO(CPG)			<b>→</b>	CPG(conference disconnected)			
200 OK INVITE(recvonly)		200 OK INFO	+						
200 OK INVITE(recvonly)									
ACK  BYE(REL)  200 OK BYE(RLC)  CASE B  INVITE(CPG, sendonly)  ACK  INVITE(CPG, sendrecv)  ACK  ACK  BYE(REL)  ACK  ACK  ACK  ACK  BYE(REL)  AREL  REL  REL  CPG(hold)  CPG(conference disconnected)  CPG(conference disconnected)  ACK  ACK  ACK  ACK  ACK  ACK  ACK  AC			<b>→</b>		<b>→</b>	CPG(hold)			
BYE(REL)  200 OK BYE(RLC)  CASE B  INVITE(CPG, sendonly)  ACK  INVITE(CPG, sendrecv)  ACK  ACK  BYE(REL)  ACK  BYE(REL)  AREL  CPG(hold)  CPG(conference disconnected)  CPG(conference disconnected)		200 OK INVITE(recvonly)							
200 OK BYE(RLC)  CASE B  INVITE(CPG, sendonly)  200 OK INVITE(recvonly)  ACK  INVITE(CPG, sendrecv)  ACK  INVITE(CPG, sendonly)  ACK  INVITE(CPG, sendonly)  ACK  INVITE(CPG, sendonly)  ACK  INVITE(CPG, sendonly)  ACK  ACK  ACK  ACK  ACK  ACK  ACK  AC		ACK	<b>→</b>						
200 OK BYE(RLC)  CASE B  INVITE(CPG, sendonly)  200 OK INVITE(recvonly)  ACK  INVITE(CPG, sendrecv)  ACK  INVITE(CPG, sendonly)  ACK  INVITE(CPG, sendonly)  ACK  INVITE(CPG, sendonly)  ACK  INVITE(CPG, sendonly)  ACK  ACK  ACK  ACK  ACK  ACK  ACK  AC									
CASE B  INVITE(CPG, sendonly)   200 OK INVITE(recvonly)   ACK  INVITE(CPG, sendrecv)   200 OK INVITE(sendrecv)   ACK  INVITE(CPG, sendrecv)   ACK  INVITE(CPG, sendrecv)   ACK  INVITE(CPG, sendrecv)   CPG(conference established)  CPG(conference disconnected)  CPG(conference disconnected)  CPG(conference disconnected)  CPG(conference disconnected)  CPG(conference disconnected)  CPG(conference disconnected)  CPG(hold)  CPG(hold)  CPG(hold)  ACK  BYE(REL)   REL					_				
INVITE(CPG, sendonly) 200 OK INVITE(recvonly) ACK  INVITE(CPG, sendrecv) 200 OK INVITE(sendrecv) ACK  INVITE(CPG,sendrecv) ACK  INVITE(CPG,sendrecv) ACK  INVITE(CPG,sendrecv)  200 OK INVITE(sendrecv) ACK  INVITE(CPG,sendrecv) ACK  INVITE(CPG,sendonly)  200 OK INVITE(sendrecv) ACK  INVITE(CPG, sendonly) ACK  INVITE(CPG, sendonly)  ACK  BYE(REL)  → REL		200 OK BYE(RLC)	+		+	RLC			
200 OK INVITE(recvonly)   ACK    INVITE(CPG, sendrecv)   200 OK INVITE(sendrecv)   ACK    INVITE(CPG,sendrecv)   ACK    INVITE(CPG,sendrecv)   CPG(conference established)    CPG(conference disconnected)   CPG(conferen									
ACK  INVITE(CPG, sendrecv)					→	CPG(hold)			
INVITE(CPG, sendrecv) → CPG(conference established)  200 OK INVITE(sendrecv) ← ACK  INVITE(CPG, sendrecv) → CPG(conference disconnected)  200 OK INVITE(sendrecv) ← ACK  INVITE(CPG, sendonly) → CPG(hold)  200 OK INVITE(recvonly) ← ACK  BYE(REL) → REL									
200 OK INVITE(sendrecv)   ACK    INVITE(CPG,sendrecv)   200 OK INVITE(sendrecv)   ACK    INVITE(CPG, sendonly)   CPG(conference disconnected)    CPG(conference disconnected)    CPG(hold)    CPG(hold)		ACK	<b>→</b>						
200 OK INVITE(sendrecv)   ACK    INVITE(CPG,sendrecv)   200 OK INVITE(sendrecv)   ACK    INVITE(CPG, sendonly)   CPG(conference disconnected)    CPG(conference disconnected)    CPG(hold)    CPG(hold)									
ACK  INVITE(CPG,sendrecv)   200 OK INVITE(sendrecv)   ACK  INVITE(CPG, sendonly)   INVITE(CPG, sendonly)   CPG(conference disconnected)   CPG(conference disconnected)   CPG(hold)    CPG(hold)   CPG(hold)   CPG(hold)    CPG(hold)   CPG(hold)   CPG(hold)    CPG(hold)   CPG(hold)    CPG(hold)   CPG(hold)    CPG(hold)    CPG(hold)    CPG(hold)    CPG(hold)    CPG(hold)    CPG(hold)    CPG(ho				ļ	<b>→</b>	CPG(conference established)			
INVITE(CPG,sendrecv) → CPG(conference disconnected)  200 OK INVITE(sendrecv) ←  ACK  INVITE(CPG, sendonly) → CPG(hold)  200 OK INVITE(recvonly) ←  ACK  BYE(REL) → REL									
200 OK INVITE(sendrecv)   ACK    INVITE(CPG, sendonly)   200 OK INVITE(recvonly)   ACK    BYE(REL)    REL		ACK	<b>→</b>						
200 OK INVITE(sendrecv)   ACK    INVITE(CPG, sendonly)   200 OK INVITE(recvonly)   ACK    BYE(REL)    REL									
ACK  INVITE(CPG, sendonly)  200 OK INVITE(recvonly)  ACK  BYE(REL)   REL					<b>→</b>	CPG(conference disconnected)			
INVITE(CPG, sendonly) → CPG(hold) 200 OK INVITE(recvonly) ← ACK → REL									
200 OK INVITE(recvonly) ← ACK  BYE(REL) → REL		ACK	<b>→</b>						
200 OK INVITE(recvonly) ← ACK  BYE(REL) → REL									
ACK → REL					<b>→</b>	CPG(hold)			
BYE(REL) → REL				ļ	1				
		ACK	<b>→</b>	ļ	1				
		200 OK BYE(RLC)	<b>←</b>		<b>+</b>	RLC			

#### 5.3.14 User-to-user service

#### 5.3.14.1 User-to-user service 1

TP414001	SIP referen	ce: RFC 3261 [	4]	Q.19	ISUP reference: 12.5 [1], clause B.21, 0], clauses 1.1.5.2.3 and 4
TSS reference	ISUP-SIP-ISUP/SS	/UUS1			
SIP selection					
criteria					
ISUP selection criteria					
Test purpose	Service 1 implicit re	quest: User-to-u	ıser informa	ation in the IAI	
SIP parameter values	the encapsulated IA INVITE: Content-Ty the user-to-user info	M. O-MGCF int pe: multipart/mi. ormation parame	erworking. xed, Conte eter encaps	nt-Type: appli	ser service 1 implicit request in cation/ISUP; IAM containing
ISUP parameter values	IAM: User-to-user in	ntormation parar	meter		
Comments	ISUP		SUT	•	SIP-I
	IAM	→		→	INVITE(IAM)
	ACM	<b>+</b>		+	180 Ringing(ACM)
	ANM	+		+	200 OK INVITE(ANM)
				<b>→</b>	ACK
			Conversa	ation	
	REL	→		→	BYE(REL)
	RLC	+		+	200 OK BYE(RLC)

TP414002	SIP reference: RF	C 3261	[4]	Q.19 <sup>2</sup>	SUP reference:  2.5 [1], clause B.21,  0], clauses 1.1.5.2.3 and 4
TSS reference	ISUP-SIP-ISUP/SS/UUS1				
SIP selection					
criteria					
ISUP selection					
criteria					
Test purpose	Service 1 implicit request:  Ensure that the SUT can see the encapsulated IAM. I-M	successf	ully transfer tl		/ITE er service 1 implicit request in
SIP parameter	INVITE: Content-Type: mu	ultipart/m	nixed, Conten	t-Type: applic	ation/ISUP; IAM containing
values	the user-to-user information	on param	neter encapsu	lated in the N	/IME body
ISUP parameter values	IAM: User-to-user informa	tion para	ameter		
Comments	SIP-I		SUT		ISUP
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM
	180 Ringing(ACM)	+		+	ACM
	200 OK INVITE(ANM)	+		+	ANM
	ACK	<b>→</b>			
			Conversat	ion	
	BYE(REL)	<b>→</b>		<b>→</b>	REL
	200 OK BYE(RLC)	+		+	RLC

TP414003	SIP reference: RFC	3261	[4]		Q.191	SUP reference: 2.5 [1], clause B.21, ], clauses 1.1.5.2.3 and 4
TSS reference	ISUP-SIP-ISUP/SS/UUS1					
SIP selection						
criteria						
ISUP selection						
criteria						
Test purpose	Ensure that the SUT can su not essential in the encapsu	ıccessfı	ully transfer	the User-	-to-us	er service 1 explicit request
SIP parameter	INVITE: Content-Type: mult					
values	the user-to-user indicator pa					
ISUP parameter values	IAM: User-to-user information request not essential	on para	meter, Use	r-to-user i	indica	tor = service 1 explicit
Comments	ISÚP		SUT			SIP-I
	IAM	<b>→</b>			<b>→</b>	INVITE(IAM)
	ACM	+			+	180 Ringing(ACM)
	ANM	+			+	200 OK INVITE(ANM)
					<b>→</b>	ACK
			Convers	ation		
	REL	<b>→</b>			<b>→</b>	BYE(REL)
	RLC	+			+	200 OK BYE(RLC)

TP414004	SIP reference: RFC	3261	[4]		2.191	SUP reference: 2.5 [1], clause B.21, ], clauses 1.1.5.2.3 and 4
TSS reference	ISUP-SIP-ISUP/SS/UUS1					
SIP selection						
criteria						
ISUP selection criteria						
Test purpose	Service 1 explicit request: U	Jser-to-	user indicat	or in the II	VVITI	Ε
	Ensure that the SUT can su essential received in the IAN	И. О-М	GCF interwo	rking.		
SIP parameter	INVITE: Content-Type: mult					
values	the user-to-user indicator pa					
	180 Ringing: Content-Type:			ACM cont	ainin	g the user-to-user indicator
	parameter encapsulated in					
ISUP parameter	IAM: User-to-user information	on para	ımeter, User	-to-user ir	ndicat	tor = service 1 explicit
values	request essential					
	ACM: User-to-user indicator	r set to			espor	
Comments	ISUP		SUT			SIP-I
	IAM	<b>→</b>			<u>→</u>	INVITE(IAM)
	ACM	+			<del>(</del>	180 Ringing(ACM)
	ANM	+			<del>-</del>	200 OK INVITE(ANM)
					<b>→</b>	ACK
			Conversa	tion		
	REL	<b>→</b>			<b>→</b>	BYE(REL)
	RLC	+			+	200 OK BYE(RLC)

TP414005	SIP reference: RFC	3261	[4]			SUP reference: 2.5 [1], clause B.21,
						], clauses 1.1.5.2.3 and 4
TSS reference	ISUP-SIP-ISUP/SS/UUS1				_	-
SIP selection criteria						
ISUP selection criteria						
Test purpose	Service 1 explicit request: U	lser-to-	user indicat	or in the	INVIT	E
	Ensure that the SUT can su essential received in the end					
SIP parameter	INVITE: Content-Type: mult	ipart/m	ixed, Conte	nt-Type:	applica	ation/ISUP; IAM containing
values	the user-to-user indicator pa					
	180 Ringing: Content-Type:			ACM cor	ntainin	g the user-to-user indicator
	parameter encapsulated in					
ISUP parameter	IAM: User-to-user information	on para	ımeter, Use	r-to-user	indica	tor = service 1 explicit
values	request essential					
•	ACM: User-to-user indicator	set to			respoi	
Comments	SIP-I		SUT			ISUP
	INVITE(IAM)	<b>→</b>			<b>→</b>	IAM
	180 Ringing(ACM)	+			+	ACM
	200 OK INVITE(ANM)	+			+	ANM
	ACK	<b>→</b>				
			Convers	ation		
	BYE(REL)	<b>↑</b>			1	REL
	200 OK BYE(RLC)	+			+	RLC

TP414006	SIP reference: RFC	3261	[4]	Q.19	ISUP reference: 12.5 [1], clause B.21, 0], clauses 1.1.5.2.3 and 4
TSS reference	ISUP-SIP-ISUP/SS/UUS1				
SIP selection criteria					
ISUP selection criteria					
Test purpose	Service 1 implicit response:	User-t	o-user infori	mation in the A	ACM
	Ensure that the SUT can sucin the encapsulated ACM. O-MGCF interworking.	cessf	ully transfer	the User-to-us	ser service 1 implicit response
SIP parameter values	Service 1 implicit response: l	Jser-t	o-user inforr	nation in the 1	80 Ringing
	INVITE: Content-Type: multip				
	the user-to-user information				
				ACM containii	ng the user-to-user information
	parameter encapsulated in the				
ISUP parameter	IAM: User-to-user information				
values	ACM: User-to-user information	on par			1
Comments	ISUP		SUT		SIP-I
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)
	ACM	+		+	180 Ringing(ACM)
	ANM	+		<b>←</b>	200 OK INVITE(ANM)
				<b>→</b>	ACK
			Conversa		
	REL	<b>→</b>		<b>→</b>	BYE(REL)
	RLC	+		<b>+</b>	200 OK BYE(RLC)

TP414007	SIP reference: RFC	3261	[4]		-	SUP reference:
						2.5 [1], clause B.21, ], clauses 1.1.5.2.3 and 4
TSS reference	ISUP-SIP-ISUP/SS/UUS1					
SIP selection criteria						
ISUP selection criteria						
Test purpose	Service 1 implicit response:  Ensure that the SUT can su in the encapsulated ACM. I-MGCF interworking.					CM er service 1 implicit response
SIP parameter values	INVITE: Content-Type: mult the user-to-user information 180 Ringing: Content-Type: parameter encapsulated in	param applica	eter encapa ation/ISUP;	sulated in	the M	
ISUP parameter	IAM: User-to-user information					
values	ACM: User-to-user informat					
Comments	SIP-I		SU	ſ		ISUP
	INVITE(IAM)	<b>→</b>			<b>→</b>	IAM
	180 Ringing(ACM)	+			+	ACM
	200 OK INVITE(ANM)	+			+	ANM
	ACK	<b>→</b>				
			Convers	ation		
	BYE(REL)	<b>→</b>			<b>→</b>	REL
	200 OK BYE(RLC)	+			+	RLC

TP414008	SIP reference: RFC	3261	[4]	Q.19	ISUP reference: 12.5 [1], clause B.21, 0], clauses 1.1.5.2.3 and 4		
TSS reference	ISUP-SIP-ISUP/SS/UUS1						
SIP selection criteria							
ISUP selection criteria							
Test purpose	Service 1 explicit response service 1 not provided in the ACM  Ensure that the SUT can successfully transfer the User-to-user service 1 explicit response not provided in the encapsulated ACM.  O-MGCF interworking.						
SIP parameter values	the user-to-user information	param applic	neter encaps ation/ISUP;	sulated in the I	cation/ISUP; IAM containing MIME body ng the user-to-user indicator		
ISUP parameter values	IAM: User-to-user information not essential ACM: User-to-user indicator	•			ator set to service 1 request		
Comments	ISUP		SUT		SIP-I		
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)		
	ACM	+		<b>←</b>	180 Ringing(ACM)		
	ANM	+		<b>←</b>	200 OK INVITE(ANM)		
				<b>→</b>	ACK		
			Convers	ation			
	REL	<b>→</b>		→	BYE(REL)		
	RLC	+		+	200 OK BYE(RLC)		

TP414009	SIP reference: RFC	3261	[4]		IS	UP reference:			
				Q.1	1912	.5 [1], clause B.21,			
				Q.737 [i.	.10],	clauses 1.1.5.2.3 and 4			
TSS reference	ISUP-SIP-ISUP/SS/UUS1								
SIP selection									
criteria									
ISUP selection									
criteria									
Test purpose	Service 1 explicit response	service	1 not provi	ded in the A	СМ				
		ccessf	ully transfer	the User-to-	user	r service 1 explicit response			
	not provided in the ACM.								
	I-MGCF interworking.								
SIP parameter	INVITE: Content-Type: mult								
values	the user-to-user information								
	180 Ringing: Content-Type:			ACM contain	ning	the user-to-user indicator			
	parameter encapsulated in								
ISUP parameter	IAM: User-to-user information	on para	ımeter, Use	r-to-user ind	icato	or set to service 1 request			
values	not essential								
	ACM: User-to-user indicator	r set to							
Comments	SIP-I		SU			SUP			
	INVITE(IAM)	<b>→</b>		-		AM			
	180 Ringing(ACM)	+		•		ACM			
	200 OK INVITE(ANM)	+		€	- /	MMA			
	ACK	<b>→</b>							
		Conversation							
	BYE(REL)	<b>→</b>		7	F	REL			
	200 OK BYE(RLC)	+		€	- F	RLC			

TP414010	SIP reference: RFC	3261	[4]		-	SUP reference:
				Q O 737	.191 [: 40	2.5 [1], clause B.21, ], clauses 1.1.5.2.3 and 4
TSS reference	ISUP-SIP-ISUP/SS/UUS1			Q.131	<u>[1. 10</u>	j, clauses 1.1.3.2.3 and 4
SIP selection	1001 011 1001 700/0001					
criteria						
ISUP selection criteria						
Test purpose	Ensure that the SUT can sunetwork in the encapsulated O-MGCF interworking.		ully transfer	the User-to	o-us	er service 1 discarded by the
SIP parameter values	INVITE: Content-Type: mult the user-to-user information 180 Ringing: Content-Type: parameter encapsulated in t	param applica	eter encaps ation/ISUP;	sulated in the	he M	IME body
ISUP parameter	IAM: User-to-user information	on para	meter			
values	ACM: User-to-user indicator	set to	discarded b	y the netw	ork r	esponse
Comments	ISUP		SUT			SIP-I
	IAM	<b>→</b>			<b>→</b>	INVITE(IAM)
	ACM	4			<del>(</del>	180 Ringing(ACM)
	ANM	+			<del>(</del>	200 OK INVITE(ANM)
					<b>→</b>	ACK
			Convers	ation		
	REL	<b>↑</b>			<b>→</b>	BYE(REL)
	RLC	+			<del>(</del>	200 OK BYE(RLC)

TP414011	SIP reference: RFC	3261	[4]		191	SUP reference: 2.5 [1], clause B.21, ], clauses 1.1.5.2.3 and 4		
TSS reference	ISUP-SIP-ISUP/SS/UUS1							
SIP selection								
criteria								
ISUP selection criteria								
Test purpose	Ensure that the SUT can su network in the encapsulated I-MGCF interworking.			the User-to	-use	er service 1 discarded by the		
SIP parameter	INVITE: Content-Type: mult	ipart/m	ixed, Conte	nt-Type: app	olica	ation/ISUP; IAM containing		
values	the user-to-user information							
	180 Ringing: Content-Type:	applica	ation/ISUP;	ACM contai	ning	g the User-to-user indicator		
	parameter encapsulated in	the MIN	ЛЕ body					
ISUP parameter	IAM: User-to-user information							
values	ACM: User-to-user indicator	r set to	discarded b	y the netwo	rk r	esponse		
Comments	SIP-I		SUT	•		ISUP		
	INVITE(IAM)	<b>→</b>		7	<b>•</b>	IAM		
	180 Ringing(ACM)	+		•	-	ACM		
	200 OK INVITE(ANM) ← ← ANM							
	ACK	<b>→</b>						
			Convers	ation				
	BYE(REL)	<b>→</b>		1	<b>•</b>	REL		
	200 OK BYE(RLC)	+		•	-	RLC		

#### 5.3.14.2 User-to-user service 2

TP414101	SIP reference: RFC	3261	[4]	Q.1912.5	ISUP reference: [1], clauses 5.4.3 and B.21,
					.10], clauses 1.2.5.2.3 and 4
TSS reference	ISUP-SIP-ISUP/SS/UUS2				
SIP selection					
criteria					
ISUP selection					
criteria					
Test purpose	Service 2 request not esser	ntial tran	nsferred in t	he INVITE	
	Ensure that the SLIT can su	ccessfi	ılly transfor	tha l lear-ta-	user service 2 explicit request
	and User-to user information				
	information is sent in a USR				
	O-MGCF interworking.		ago ontoapor		440011
SIP parameter		ipart/m	ixed, Conte	nt-Type: app	olication/ISUP; IAM containing
values					capsulated in the MIME body
	INFO: Content-Type: applic	ation/IS	SUP; USR c	ontaining the	User-to-user information
	parameter encapsulated in				
ISUP parameter	IAM: User-to-user information		meter, Use	r-to-user indi	icator
values	USR: User-to-user informati	ion			
Comments	ISUP		SUT		SIP-I
	IAM	<b>→</b>		-	
	ACM	+		<del>-</del>	10011119119(110111)
	ANM	+		•	=======================================
					ACK
			Convers		
	USR	<b>→</b>		-	
				•	- 200 OK INFO
	USR	+		+	INFO(USR)
	0010				5 (5 5)
				<del>-   '</del>	200 010 1101 0
	REL	<b>→</b>		-	BYE(REL)
	RLC	<b>←</b>		+	

TP414102	SIP reference: RI	FC 3261 [	4]		ISUP reference: [1], clauses 5.4.3 and B 10], clauses 1.2.5.2.3 an			
TSS reference	ISUP-SIP-ISUP/SS/UUS2	2						
SIP selection								
criteria								
ISUP selection								
criteria								
Test purpose	Ensure that the SUT can the encapsulated IAM. Ar encapsulated in an INFO	Service 2 request not essential transferred in the IAM  Ensure that the SUT can successfully transfer the User-to-user service 2 explicit request in the encapsulated IAM. An additional User-to-user information is sent in a USR message encapsulated in an INFO request.						
	O-MGCF interworking.							
SIP parameter values	the user-to-user indicator	INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; IAM containing the user-to-user indicator encapsulated in the MIME body INFO: Content-Type: application/ISUP; USR containing the User-to-user information						
ISUP parameter	IAM: User-to-user informa			-to-user ind	icator			
values	USR: User-to-user inform		, 000.	10 0001 1110				
Comments	SIP-I		SUT	'	ISUP			
	INVITE(IAM)	<b>→</b>		-	IAM			
	180 Ringing(ACM)	+		€	- ACM			
	200 OK INVITE(ANM)	+		€	- ANM			
	ACK	<b>→</b>						
			Conversa	tion				
	INFO(USR)	<b>→</b>		1 -3	USR			
	200 OK INFO	+						
	INFO(USR)	+		•	• USR			
	200 OK INFO	<b>→</b>						
	BYE(REL)	<b>→</b>		-	REL			
	200 OK BYE(RLC)	+		•				

TP414103	SIP reference: RFC	3261	[4]		ISUP reference: 12.5 [1], clause B.21, 0], clauses 1.2.5.2.3 and 4
TSS reference	ISUP-SIP-ISUP/SS/UUS2				
SIP selection criteria					
ISUP selection criteria					
Test purpose	Service 2 response not prov Ensure that the SUT can su not provided in the encapsu I-MGCF interworking.	ccessf	ully transfer		ser service 2 explicit response
SIP parameter values	INVITE: Content-Type: mult the user-to-user information	param applica	eter encaps ation/ISUP;	sulated in the	cation/ISUP; IAM containing MIME body ng the user-to-user indicator
ISUP parameter values		on para	meter, Use		ator set to service 2 request
Comments	ISUP	301 10	SU		SIP-I
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)
	ACM	+		+	180 Ringing(ACM)
	ANM	+		+	200 OK INVITE(ANM)
				<b>→</b>	ACK
			Convers	ation	
	REL	<b>→</b>		<b>→</b>	BYE(REL)
	RLC	+		+	200 OK BYE(RLC)

TP414104	SIP reference: RF	C 3261	[4]	Q.19	ISUP reference: 12.5 [1], clause B.21,				
				Q.737 [1.10	0], clauses 1.2.5.2.3 and 4				
TSS reference	ISUP-SIP-ISUP/SS/UUS2								
SIP selection criteria									
ISUP selection									
criteria									
Test purpose	Service 2 response not pro	ovided tr	ansferred in	the ACM					
	Encure that the SLIT can a	vu cooccfi	ully transfor	the Hear to us	ser service 2 explicit response				
CID novemeter	not provided in the encaps								
SIP parameter					cation/ISUP; IAM containing				
values	the user-to-user indicator p								
				ACM containir	ng the user-to-user indicator				
	parameter encapsulated in								
ISUP parameter	IAM: User-to-user informat								
values	ACM: User-to-user indicate	or set to	service 2 n	ot provided res	sponse				
Comments	SIP-I		SUT	Ī I	ISUP				
	INVITE(IAM)	<b>→</b>		→	IAM				
	180 Ringing(ACM)	+		+	ACM				
	200 OK INVITE(ANM)								
	ACK	<b>→</b>							
			Convers	ation					
	BYE(REL)	<b>→</b>		<b>→</b>	REL				
	200 OK BYE(RLC)	+		+	RLC				

#### 5.3.14.3 User-to-user service 3

TP414201	SIP reference: RF	C 3261	[4]	ISUP reference:			
					[1], clauses 5.4.3 and B.21,		
				Q.737 [i.1	10], clauses 1.2.5.2.3 and 4		
TSS reference	ISUP-SIP-ISUP/SS/UUS3						
SIP selection							
criteria							
ISUP selection criteria							
Test purpose					iser service 3 explicit request in		
	encapsulated in an INFO re		Jser-to-use	r information i	s sent in several USR message		
	O-MGCF interworking.	equest.					
SIP parameter		ltipart/m	ixed, Conte	ent-Type: appl	ication/ISUP; IAM containing		
values	the user-to-user indicator e	ncapsu	ated in the	MIME body	,		
	INFO: Content-Type: applic	cation/IS	SUP; USR o	containing the	User-to-user information		
	parameter encapsulated in						
ISUP parameter	IAM: User-to-user informat		meter, Use	r-to-user indic	cator		
values	USR: User-to-user informa	tion					
Comments	ISUP		SU		SIP-I		
	IAM	<b>→</b>		→	INVITE(IAM)		
	ACM	+		<b>←</b>	180 Ringing(ACM)		
	ANM	+		+	200 OK INVITE(ANM)		
				→	ACK		
			Convers	ation			
	USR	<b>→</b>		→	INFO(USR)		
				<b>+</b>	200 OK INFO		
	USR	+		+	INFO(USR)		
				<b>→</b>	200 OK INFO		
	Heb	+		+	INICO(LICE)		
	USR			<b>→</b>	INFO(USR) 200 OK INFO		
					200 OK IINFO		
	USR	<b>→</b>		<b>→</b>	INFO(USR)		
				+	200 OK INFO		
	REL	→		<b>→</b>	BYE(REL)		
	RLC	+		<b>←</b>	200 OK BYE(RLC)		

TP414202	SIP reference: RI	FC 3261	[4]		ISUP reference:			
					[1], clauses 5.4.3 and B.21, 0], clauses 1.2.5.2.3 and 4			
TSS reference	ISUP-SIP-ISUP/SS/UUS3							
SIP selection								
criteria								
ISUP selection								
criteria								
Test purpose					ser service 3 explicit request i			
			Jser-to-use	r information is	s sent in several USR messag			
	encapsulated in an INFO	request.						
SIP parameter	I-MGCF interworking.	14: /	ived Cout	unt Tumas amali	anting/ICLID: IAM containing			
values	the user-to-user indicator				cation/ISUP; IAM containing			
values	INFO: Content-Type: app				I lear-to-user information			
	parameter encapsulated i			ontaining the	Oser-to-user information			
ISUP parameter	IAM: User-to-user informa			r-to-user indic	ator			
values	USR: User-to-user inform			i to door maio	G. G.			
Comments	SIP-I		SU'	Т	ISUP			
	INVITE(IAM)	<b>→</b>		<b>→</b>	IAM			
	180 Ringing(ACM)	+		+	ACM			
	200 OK INVITE(ANM)	+		<del>(</del>	ANM			
	ACK	<b>→</b>						
			Convers	ation				
	INFO(USR)	<b>→</b>		<b>→</b>	USR			
	200 OK INFO	+						
	INFO(USR)	+		<b>←</b>	USR			
	200 OK INFO	<b>→</b>						
	INFO(USR)	+		<b>←</b>	USR			
	200 OK INFO	<b>→</b>						
	INTEQ(110D)				1100			
	INFO(USR)	<b>→</b>		<b>→</b>	USR			
	200 OK INFO	+			+			
	DVE/DEL)				REL			
	BYE(REL)	<b>→</b>		<b>→</b>				
	200 OK BYE(RLC)				RLC			

TP414203	SIP reference: RFC	3261	[4]	ISUP reference: Q.1912.5 [1], clauses 5.4.3 and B.21, Q.737 [i.10], clauses 1.2.5.2.3 and 4				
TSS reference	ISUP-SIP-ISUP/SS/UUS3							
SIP selection								
criteria								
ISUP selection								
criteria								
Test purpose	Ensure that a User-to-user request service 3 encapsulated in an INFO request during the confirmed state can successful proceeded. The User-to-user information is passed on in several encapsulated USR messages.  O-MGCF interworking.							
SIP parameter	INFO: Content-Type: applic	ation/IS	SUP; FAR o	ontaining the	user-to-user indicator			
values	encapsulated in the MIME b	ody		•				
	INFO: Content-Type: applic		SUP; FAA c	ontaining the u	user-to-user indicator			
	encapsulated in the MIME b							
	INFO: Content-Type: applic	ation/IS	SUP; USR o	containing the	User-to-user information			
	parameter encapsulated in	the MIN	/IE body					
ISUP parameter	FAR: User-to-user indicator							
values	FAA: User-to-user indicator		e 3 respons	e provided				
•	USR: User-to-user informat	ion		-	Total I			
Comments	ISUP		SU'		SIP-I			
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)			
	ACM	+		<del>-</del>	180 Ringing(ACM)			
	ANM	+		<u> </u>	200 OK INVITE(ANM)			
	→ ACK							
	EAD		Convers		INIEO(EAB)			
	FAR	<b>→</b>		<b>→</b>	INFO(FAR)			
				+	200 OK INFO			
	FAA	+		+	INFO(FAA)			
	FAA	_		→	200 OK INFO			
				7	200 OK INFO			
	USR	<b>→</b>		<b>→</b>	INFO(USR)			
	0010	<del></del>		· ·	200 OK INFO			
					200 010 1101 0			
	USR	+		+	INFO(USR)			
	COR	<u> </u>		<b>→</b>	200 OK INFO			
				<u> </u>	200 01(111 0			
	USR	+		+	INFO(USR)			
		<u> </u>		<b>→</b>	200 OK INFO			
				-				
	USR	<b>→</b>		<b>→</b>	INFO(USR)			
		<u> </u>		+	200 OK INFO			
	REL	<b>→</b>		<b>→</b>	BYE(REL)			
	RLC	+		<del>/</del>	200 OK BYE(RLC)			
	11,120		<u> </u>		1200 ON DIL(NLO)			

TP414204	SIP reference: RF	ISUP reference:							
				Q.1912.5 [1], clauses 5.4.3 and B.21, Q.737 [i.10], clauses 1.2.5.2.3 and 4					
TSS reference	ISUP-SIP-ISUP/SS/UUS3								
SIP selection									
criteria									
ISUP selection									
criteria									
Test purpose	Ensure that a User-to-user request service 3 encapsulated in an INFO request during the confirmed state can successful proceeded. The User-to-user information is passed on in several encapsulated USR messages.  I-MGCF interworking.								
SIP parameter	INFO: Content-Type: appl		SUP; FAR o	ontaining t	he us	ser-to-user indicator			
values	encapsulated in the MIME								
	INFO: Content-Type: appl		SUP; FAA c	ontaining t	he us	ser-to-user indicator			
	encapsulated in the MIME								
	INFO: Content-Type: appl	ication/IS	SUP; USR O	containing t	the U	ser-to-user information			
ISUP parameter	parameter encapsulated in	n the IVIIIN	/IE body		:-1				
values	FAR: User-to-user indicate								
values	FAA: User-to-user indicator service 3 response provided USR: User-to-user information								
Comments	SIP-I	allon	SU <sup>-</sup>	т		ISUP			
Comments	INVITE(IAM)	<b>→</b>	- 55		<b>→</b>	IAM			
	180 Ringing(ACM)	<del>/</del>			<del>′</del>	ACM			
	200 OK INVITE(ANM)	+			<del>`</del>	ANM			
	ACK	<del>``</del>				7 (1 41 41			
	7.010	Conversation							
	INFO(FAR)	<b>→</b>	000		<b>→</b>	FAR			
	200 OK INFO	+							
	200 311 114 3	<u> </u>							
	INFO(FAA)	+			<del>(</del>	FAA			
	200 OK INFO	<b>→</b>				1701			
	INFO(USR)	<b>→</b>			<b>→</b>	USR			
	200 OK INFO	+							
	INFO(USR)	+			<del>(</del>	USR			
	200 OK INFO	<b>→</b>							
	INFO(USR)	+			<del>(</del>	USR			
	200 OK INFO	<b>→</b>							
	INFO(USR)	<b>→</b>			<b>→</b>	USR			
	200 OK INFO	+							
	BYE(REL)	<b>→</b>			<b>→</b>	REL			
	200 OK BYE(RLC)	+			<del>(</del>	RLC			

TP414205	SIP reference: RFC	3261	[4]		ISUP reference: 12.5 [1], clause B.21, 0], clauses 1.2.5.2.3 and 4			
TSS reference	ISUP-SIP-ISUP/SS/UUS3			Q./3/ [I.1	oj, ciauses 1.2.5.2.3 and 4			
SIP selection criteria	1001 011 1001 700,000							
ISUP selection criteria								
Test purpose	Ensure that the SUT can su in the encapsulated ANM. O-MGCF interworking.							
SIP parameter values	INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; IAM containing the user-to-user indicator parameter encapsulated in the MIME body 200 OK INVITE: Content-Type: application/ISUP; ANM containing the user-to-user indicator parameter encapsulated in the MIME body							
ISUP parameter	IAM: User-to-user indicator set to service 3 request							
values	ANM: User-to-user indicator set to service 3 provided response							
Comments	ISUP		SUT		SIP-I			
	IAM	<b>→</b>		<b>→</b>	INVITE(IAM)			
	ACM	+		<b>←</b>	180 Ringing(ACM)			
	ANM	<b>←</b>		+	200 OK INVITE(ANM)			
	→ ACK							
		Conversation						
	REL	<b>→</b>		<b>→</b>	BYE(REL)			
	RLC	+		+	200 OK BYE(RLC)			

TP414206	SIP reference: RF	C 3261	[4]		ISUP reference: Q.1912.5 [1], clause B.21, Q.737 [i.10], clauses 1.2.5.2.3 and 4			
TSS reference	ISUP-SIP-ISUP/SS/UUS3							
SIP selection								
criteria								
ISUP selection criteria								
Test purpose	Ensure that the SUT can s in the encapsulated ANM. O-MGCF interworking.							
SIP parameter	INVITE: Content-Type: multipart/mixed, Content-Type: application/ISUP; IAM containing							
values	the user-to-user indicator parameter encapsulated in the MIME body 200 OK INVITE: Content-Type: application/ISUP; ANM containing the user-to-user indicator parameter encapsulated in the MIME body							
ISUP parameter	IAM: User-to-user indicator set to service 3 request							
values	ANM: User-to-user indicator set to service 3 provided response							
Comments	SIP-I		SUT		I	SUP		
	INVITE(IAM)	<b>→</b>		→	. [	AM		
	180 Ringing(ACM)	+		<b>←</b>	. /	ACM		
	200 OK INVITE(ANM) ← ANM							
	ACK	<b>→</b>						
		Conversation						
	BYE(REL)	<b>→</b>		→	·	REL		
	200 OK BYE(RLC) ← RLC							

TP414207	SIP reference: RFC	3261	[4]	Q.1912.5 [ <sup>*</sup>	SUP reference: 1], clauses 5.4.3 and B.21, 0], clauses 1.2.5.2.3 and 4			
TSS reference	ISUP-SIP-ISUP/SS/UUS3							
SIP selection								
criteria								
ISUP selection								
criteria								
Test purpose	Ensure that a User-to-user confirmed state can success				n an INFO request during the request is rejected.			
SIP parameter	INFO: Content-Type: applic	ation/IS	SUP; FAR c	ontaining the u	ser-to-user indicator			
values	encapsulated in the MIME b	ody		_				
	INFO: Content-Type: applic	ation/IS	SUP; FRJ c	ontaining the u	ser-to-user indicator			
		encapsulated in the MIME body						
ISUP parameter	FAR: User-to-user indicator service 3 request not essential							
values	FRJ: User-to-user indicator	service	3 response	e not provided				
Comments	ISUP		SU	Γ	SIP-I			
	IAM	<b>→</b>		→	INVITE(IAM)			
	ACM	<b>+</b>		+	180 Ringing(ACM)			
	ANM	4		+	200 OK INVITE(ANM)			
				→	ACK			
	Conversation							
	FAR	<b>→</b>		→	INFO(FAR)			
				+	200 OK INFO			
	FRJ	+		+	INFO(FRJ)			
				<b>→</b>	200 OK INFO			
	REL	<b>→</b>		<b>→</b>	BYE(REL)			
	RLC	+	ĺ	+	200 OK BYE(RLC)			

TP414208	SIP reference: RF	C 3261	[4]	ISUP reference:			
				Q.1912.5 [1], clauses 5.4.3 and B.21,			
				Q.737 [i.10	0], clauses 1.2.5.2.3 and 4		
TSS reference	ISUP-SIP-ISUP/SS/UUS3						
SIP selection							
criteria							
ISUP selection							
criteria							
Test purpose					n an INFO request during the		
	confirmed state can succe						
SIP parameter	INFO: Content-Type: appli		SUP; FAR c	ontaining the u	ser-to-user indicator		
values	encapsulated in the MIME						
	INFO: Content-Type: appli		SUP; FRJ co	ontaining the u	ser-to-user indicator		
	encapsulated in the MIME						
ISUP parameter	FAR: User-to-user indicate						
values	FRJ: User-to-user indicato	r service					
Comments	SIP-I		SU		ISUP		
	INVITE(IAM)	<b>→</b>		→	IAM		
	180 Ringing(ACM)	+		+	ACM		
	200 OK INVITE(ANM)	+		+	ANM		
	ACK	→					
	Conversation						
	INFO(FAR)	<b>→</b>		<b>→</b>	FAR		
	200 OK INFO	<del>(</del>					
	INFO(FRJ)	+		+	FRJ		
	200 OK INFO	<b>→</b>					
	BYE(REL)	<b>→</b>		→	REL		
	200 OK BYE(RLC)	+		+	RLC		

## Annex A (informative): Bibliography

ITU-T Recommendations Q.761: "Signalling System No. 7 - ISDN User Part functional description".

 $ITU-T\ Recommendations\ Q.762:\ "Signalling\ System\ No.\ 7-ISDN\ User\ Part\ general\ functions\ of\ messages\ and\ signals".$ 

ITU-T Recommendations Q.763: "Signalling System No. 7 - ISDN User Part formats and codes".

ITU-T Recommendations Q.1902.1: "Bearer Independent Call Control protocol (Capability Set 2): Functional description".

ITU-T Recommendations Q.1902.2: "Bearer Independent Call Control protocol (Capability Set 2) and Signalling System No.7 ISDN User Part: General functions of messages and parameters".

ITU-T Recommendations Q.1902.3: "Bearer Independent Call Control protocol (Capability Set 2) and Signalling System No.7 ISDN User Part: Formats and codes".

IETF RFC 3267: "Real-Time Transport Protocol (RTP) Payload Format and File Storage Format for the Adaptive Multi-Rate (AMR) and Adaptive Multi-Rate Wideband (AMR-WB) Audio Codecs".

ITU-T Recommendation Q.939: "Typical DSS 1 service indicator codings for ISDN telecommunications services".

# Annex B (informative): Change history

Date	WG Doc.	CR	Rev	CAT	Title / Comment	Current Version	New Version
10-06- 09	21PTD096r 1	001		F	Update of test description and message flows	1.1.1	1.2.1
					Publication	1.2.1	1.2.1
15-04- 01	TISPAN(10 )0063	002		F	CR on TSS/TP for profile C - test purposes improvements	1.2.1	1.3.1
					Publication		

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Document history						
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